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The

Official Year Book

of

New South Wales.

1909-10.



J. B. TRIVETT.

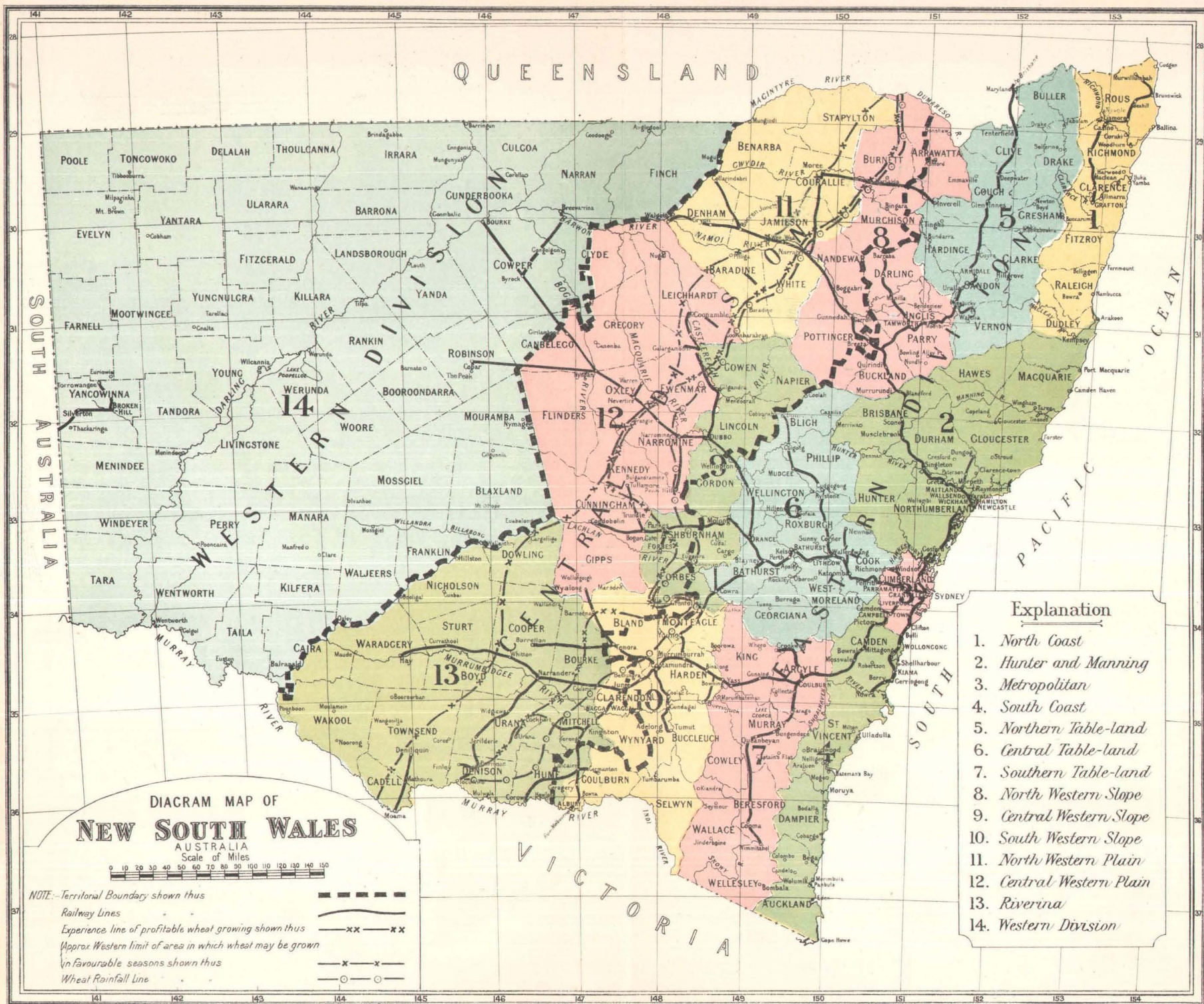
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Sydney,

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Kindly sign and return the annexed form, on receipt of which your name will be duly noted in respect of future issues.

I am,

Sir,

Your obedient Servant,

JOHN B. TRIVETT,
Government Statistician.

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JOHN B. TRIVETT,
GOVERNMENT STATISTICIAN,
SYDNEY,
NEW SOUTH WALES

THE
OFFICIAL YEAR BOOK
OF
NEW SOUTH WALES.
1909-10.



JOHN B. TRIVETT, F.R.A.S., F.S.S.,
GOVERNMENT STATISTICIAN.



PUBLISHED BY AUTHORITY OF THE GOVERNMENT OF THE
STATE OF NEW SOUTH WALES.

W. A. GULLICK, GOVERNMENT PRINTER,

1911.

PREFACE.

IN the publication of the Official Year Book of 1909-10, a departure from the usual custom has been made by the issue of the several chapters of this volume as separate parts, sixteen in number. This plan was adopted in order to extend the utility of the work by supplying the public, as early as possible, with the most recent information regarding the resources and progress of the State.

The best efforts of the staff available for the purpose have been employed in collecting reliable information relating to matters of immediate public interest. The whole of the text has been revised, and in numerous instances rewritten, while, in several cases, the mode of presentation has been rendered more explicit, and every care has been taken to keep pace with the increasing requirements of readers interested in the special topics of the day.

Amongst the many important alterations which have been made, attention may be called to the chapter "Employment and Arbitration," in which the legislation affecting the industrial classes has been comprehensively discussed, and a list of the Industrial laws of the State has been inserted with a brief analysis of each enactment.

The information relating to Education has been materially altered, and brought up to date, and the development of modern ideas relating to this important national function has been shown as completely as possible.

The particulars of internal communication have been extended by the addition of the chapter relating to Roads and Bridges,

and an effort has been made to indicate the progress of Closer Settlement throughout the State in the chapter relating to Rural Settlement, which has been remodelled.

Attention is devoted also to the statistics dealing with the social condition of the people, the sickness experience of the Friendly Societies, the particulars of diseases treated in hospitals, and the result of the medical inspection and anthropometric survey of the children in State Schools.

Information received since the various chapters were sent to press is given in the Appendix, which includes the result of the State Parliamentary elections, and the latest statistics of population, trade, and mineral production.

JOHN B. TRIVETT,

*Bureau of Statistics,
April, 1911.*

Government Statistician.

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CHRONOLOGICAL TABLE

OF

Events in the History of British Settlement in New South Wales.

- 1788 "First Fleet" arrived in Botany Bay and formal possession taken of Sydney Cove, January 26th. Governor Phillip proclaimed the Colony—Norfolk Island established as a dependency—La Perouse visited Botany Bay—Earthquake shocks—Lord Howe Island discovered—First settlement at Parramatta.
- 1789 Hawkesbury River discovered—First harvest reaped at Parramatta—Hurricane at Norfolk Island—Disease (small-pox) among aboriginals—Nepean River discovered—First colonial-built boat, "Rose Hill Packet," launched.
- 1790 Second Fleet arrived with New South Wales Corps—"Sirius," lost at Norfolk Island—First brick store erected—Scarcity of provisions.
- 1791 Lieut.-Governor King brought Territorial Seal—Settlements at Prospect Hill and The Ponds—Third Fleet arrived—Corps of marines relieved by New South Wales Corps.
- 1792 Governor Phillip resigned—First Foreign Trading Vessel "Philadelphia" arrived.
- 1792-5 Military administration by Major Grose and Captain Paterson pending appointment of Governor.
- 1793 First free immigrants arrived in the "Bellona" and settled at Liberty Plains—Exploration of Blue Mountains attempted—First produce, 1,200 bushels wheat, sold by settlers to Government.
- 1794 Hawkesbury River settlements—"Scotch Martyrs" landed—Lieut.-Governor Grose left for England.
- 1795 Floods at Hawkesbury River agricultural settlements—Governor Hunter arrived—First church building opened—First printing press erected—Strayed cattle found at Cow Pastures.
- 1796 Port Hacking explored by Bass and Flinders—Duck River Bridge built—First theatre opened—Bass tried to cross Blue Mountains.
- 1797 Coal discovered at Illawarra and Coal (Hunter) River—Bass discovered Twofold Bay, Bass Strait, Western Port, &c.—Merino sheep brought from Cape of Good Hope—Tuggerah Lakes discovered.
- 1798 Town Clock set up—Severe hailstorms.
- 1799 Bass and Flinders returned from Van Diemen's Land—Flinders explored North Coast—Wilson reached Lachlan River—Hawkesbury floods.
- 1800 Governor Hunter recalled; superseded by Governor King—First Coal exported—Customs House established—Churches opened, St. John's, Parramatta, and St. Phillip's, Sydney.
- 1801 First general muster—First issue of Copper Coin—Hunter River Coal Mines worked.
- 1803 First Wool taken to England by Macarthur—Cayley attempted to cross Blue Mountains—Battery at George's Head completed—First Roman Catholic services, Rev. Mr. Dixon, celebrant—*Sydney Gazette and New South Wales Advertiser* established—First Settlement established in Van Diemen's Land.
- 1804 Castle Hill convict insurrections—Newcastle settlement.
- 1805 Macarthur began sheep farming at Camden with imported Spanish Merinos.

- 1806 Governor Bligh arrived—Famine; Wheat 80s. bushel—"March Floods" on Hawkesbury and South Creek.
- 1807 Final despatch of Convicts for Norfolk Island ordered—Rum currency forbidden.
- 1808 Macarthur's trial—Bligh's deposition—Major Johnston assumed Government.
- 1809 Governor Macquarie arrived—Free school established—Street Regulations—Town Markets and Wharf built—Charlotte Place, Macquarie Place, and Hyde Park named.
- 1810 First Post Office established—First Horse Races.
- 1811 Hospital built—Public Pounds established—Lieut.-Col. Johnston court-martialled and cashiered.
- 1812 Creation of Governor's Court and Supreme Court—Sunday closing of shops—First plantation of Hops gathered.
- 1813 Blaxland, Wentworth, and Lawson crossed Blue Mountains—Deputy-Surveyor Evans' expeditions—Foundation stone laid, Sydney Lighthouse—Botanic Gardens commenced.
- 1814 Civil Courts created—Hume explored Berrima and Goulburn Districts—First Judge (J. H. Bent) arrived and was recalled.
- 1815 Lapstone Hill and Mount Victoria Road to Bathurst completed—Bathurst laid out by Governor Macquarie—Evans discovered Macquarie River—First Wesleyan Minister arrived—First steam engine in Sydney—First sitting of Supreme Court.
- 1816 Macquarie Tower and Lighthouse commenced—Conferences instituted with aboriginals—Allan Cunningham and Judge Advocate Wylde arrived.
- 1817 Oxley's first journey inland—Meehan and Hume discovered Lakes George and Bathurst, and Goulburn Plains—Bank of New South Wales established—Captain King's coastal explorations—Hyde Park barracks built.
- 1818 Oxley's second journey to the Macquarie—Free immigration stopped—Great Western Road completed to Emu Ford—Benevolent Society established—Rose Hill packet boat service instituted.
- 1819 Commissioner Bigge's inquiry—St. James' Church commenced—Savings Bank opened at Sydney.
- 1820 Murrumbidgee discovered—Russian discovery ships arrived—Clyde River discovered—Burial ground (Town Hall) closed—Sir Jos. Banks died—Campbelltown laid out—Hunter River Floods.
- 1821 Governor Sir Thos. Brisbane arrived—Government Astronomer appointed—Ten ships despatched with Australian produce for England—First Roman Catholic Church opened—Philosophical (now Royal) Society founded.
- 1822 Agricultural Society established—First Colonial Attorney admitted—Bees introduced—St. James' Church opened.
- 1823 First Australian Constitution—Cunningham's explorations—Dr. Lang arrived—Oxley discovered Tweed River—Free settlers encouraged—Squatting commenced—"Particles of gold" found at Fish River by Assistant Surveyor McBrien.
- 1824 Freedom of Press assured—Trial by Jury instituted—First Land regulations—Hume and Hovell explored South—Legislative Council of seven Crown nominees—Charter of Justice proclaimed—First Executive Councillors appointed—First Act of Parliament in Australia—Sugar-cane grown on Hastings River—Australian Agricultural Company formed.
- 1825 Governor Darling arrived—Sydney Chamber of Commerce established—First Jury empanelled—Van Diemen's Land independent—Dr. Halloran's Grammar School—Drought which lasted three years.
- 1826 Sturt discovered River Darling—Cunningham's explorations—Church and School Corporation formed—Bank of Australia established—Australian Subscription Library founded—Illawarra settlement—Land Board appointed.
- 1827 Colony became self-supporting—Heavy Land and Stock speculations—*Sydney Gazette* became the first daily newspaper—Water Supply Scheme initiated—Hume discovered new road to Bathurst—Cunningham explored Upper Darling and pastoral district of Darling Downs.

- 1828 Drought (three years)—Sturt's expeditions and discovery of Darling and Murray Rivers—Legislative Council enlarged to fifteen members—First Census—Letters of Denization—Western Plains Settlers return—Clarence and Richmond Rivers discovered—"Australian" newspapers under the libel law of 1827.
- 1829 First Land Grant to the Church and School Corporation—First Act of Council—St. Mary's Cathedral founded—Gunpowder first made in Australia—Sturt's expedition down Murrumbidgee River to mouth of Murray—First Circuit Court.
- 1830 Convict rising at Bathurst—Bushrangers Act passed in one day—Sturt's overland journey—Scarcity of Labour—Lang's Scotch mechanics' introduced—Licensing Act.
- 1831 Governor Bourke arrived—Lord Ripon's Land regulations for Auction Sales—Mitchell's explorations north of Liverpool Plains—First Colonial-built steamer launched—First immigrant ship arrived—Government Domain opened—Australian Steam Conveyance Co. formed—Lang's Australian College founded—First steamer, "Sophia Jane," reached Sydney—First contract for conveyance of mails.
- 1832 First appropriation of Public Funds for Immigration—Church and School Corporation Charter revoked—King's school opened—*Government Gazette* first published—Sydney Theatre opened—Savings Bank of New South Wales instituted.
- 1833 Sydney Mechanics' School of Arts formed—Appellate jurisdiction of Privy Council extended to Colonies.
- 1834 Commercial Banking Company established—First Friendly Society formed—Trouble at Norfolk Island—Settlement, Twofold Bay.
- 1835 Mitchell established Fort Bourke on the Darling River—Bank of Australasia founded—First Roman Catholic Bishop (Dr. Polding) arrived—Sydney College Grammar School opened—Public Meeting petitioned "representation" in Parliament.
- 1836 Mitchell in the South (Australia Felix)—Squatting formally recognised—First Anglican Bishop (Dr. Broughton) arrived in Sydney—Bishopric of Australia separated from Diocese of Calcutta—Act passed for maintenance of ministers of Religion—Australian Museum founded.
- 1837 Select Committee on Transportation appointed in London—Great snow fall near Sydney—Australian Gaslight Company founded—Water Supply, tunnel from Botany swamps, completed.
- 1838 Drought, crops failed—Assignment system ceased—Speculation mania—Governor Gipps arrived—Botanic Gardens opened to the public—Reporters allowed in Legislative Council Chambers—Sale of Port Phillip Land at Sydney—Australian Club founded—Prepayment of postage by stamped covers.
- 1839 Squatting Act passed—Strzelecki found gold near Hartley.—Mr. (Sir) Alf. Stephen, Judge of Supreme Court—Military juries ceased.
- 1840 Monetary crisis—"Humane system" tried in Norfolk Island—Strzelecki's expedition to Western Port—Mt. Kosciusko named—Abolition of transportation—Land Revenues appropriated to public works and immigration—Wine industry established—New South Wales territory defined by Royal Instruction.
- 1841 Rev. W. B. Clarke found grains of alluvial gold near Bathurst—First (Immigration) Loan—Immigration Committee appointed—New Zealand became separate colony—Sydney lit with gas—First permanent Synagogue.
- 1842 Sydney Municipal Corporation established—Insolvency Law passed—Bank crisis—Crown Land Sales Act.
- 1843 Second Constitution Act, twelve nominees and twenty-four elected members of Legislative Council—Incorporation of Suburban and City Towns—Bank of Australia Lottery—First General election—Representative Assembly meets—"Boiling down" of sheep.
- 1844 Exports exceeded imports—First District Court held—Pastoral Association formed—Norfolk Island annexed to Van Diemen's Land.
- 1845 Mitchell explored Barcoo—Responsible Government discussed.

CHRONOLOGICAL TABLE.

- 1846 Governor Fitzroy arrived—Railroad agitation—Sydney Tram and Rail Company formed.
- 1847 Crown Land Leases Act—Australian Agricultural Co. abandoned Coal monopoly—Proposed German Immigration.
- 1848 Chinese immigration—Kennedy's last exploring expedition—Railway Commissioner appointed—Denominational School Board.
- 1849 Exodus of population to Californian gold fields—Australian Mutual Provident Society formed—Uniform twopenny postage instituted.
- 1850 First sod of first Australian railway turned at Sydney—University of Sydney founded.
- 1851 Hargreaves discovered payable gold near Bathurst—Gold proclaimed Crown property—Gold Commissioner—Mineralogical and Geological survey of New South Wales by Surveyor Stutchbury—Colony of Victoria founded.
- 1852 Gundagai floods (77 lives lost)—Gold Revenue allocated to Colonial Legislatures—First P. & O. mail steamer ("Chusan") arrived from England—First overland mail—Inauguration of Sydney University—Framing of Constitution.
- 1853 Australian Joint Stock Bank incorporated—Newcastle-Maitland Railway Company formed—First steamer on the Murray—Sydney City Corporation dissolved—Australian Museum (founded 1836) incorporated.
- 1854 Russian War scare—Volunteer Forces enrolled—Fitzroy Dock commenced.
- 1855 Railway, Sydney to Parramatta, opened—Governor Denison arrived—Goldfields control scheme—Royal Sydney Mint established.
- 1856 First elective Parliament—First responsible Ministry sworn in—First registration Births, Deaths, and Marriages—Sydney Observatory established—Pitcairn Islanders placed on Norfolk Island—Norfolk Island transferred to jurisdiction of Governor of New South Wales.
- 1857 Floods—Wrecks of "Dunbar" (119 lives lost) and "Catherine Adamson" (21 lives lost) at Sydney Heads—Select Committee on Federation—First gold register issued—Sydney Exchange opened—P. & O. and Royal Mail Company's services inaugurated—Road Department—Goldfield regulations—Electoral lists and rolls printed—Corporation of Sydney restored.
- 1858 Manhood suffrage and vote by Ballot enacted—Telegraphic communication, Sydney to Melbourne—Royal Charter to Sydney University—Drought—Macarthur's sheep flocks dispersed.
- 1859 Separation of Queensland.
- 1860 Floods, Shoalhaven and Araluen—Kiadra goldfield rush—Cumberland Disease in Cattle—Rifle Association formed—Glebe Abattoirs—Deaf and Dumb and Blind Institution.
- 1861 Governor Sir J. Young arrived—Anti-Chinese riots at Lambing Flat and Burrangong goldfields—John Robertson's Land Acts—Free Selection before Survey—Constitutional crisis—Restriction of Chinese immigration—Emigration Commissioners, Parkes and Dalley, appointed.
- 1862 Drought—Raid by bushrangers on Lachlan (Eugowra) gold escort (£14,000 taken)—State aid to religion abolished—Real Property Act.
- 1863 Outlaw Gilbert's robbery, Bathurst and Canowindra besieged for thirteen days—Naval Brigade organised—Agent-General appointed—Northern Territory separated and annexed to South Australia.
- 1864 Bushranging outrages—Darling River Floods.
- 1865 St. Mary's Cathedral burned—Border Duties Conference—Stamp duties imposed.
- 1866 Public Schools Act (Sir H. Parkes) abolished National and Denominational School Boards—General Post Office, Sydney, commenced.
- 1867 Industrial Schools established—Municipalities Act.
- 1868 Governor Lord Belmore arrived—Duke of Edinburgh's visit—His attempted assassination at Clontarf—Foundation Sydney Town Hall laid.
- 1869 Eskbank Iron Company established—Old Australian Subscription Library converted into Free Public Library.

- 1870 Bush Fires—Intercolonial Exhibition at Sydney celebrating centenary of Cook's landing—Goldfields Commission—Imperial troops withdrawn from Australia.
- 1871 Forest Reserves established—Permanent military force raised—National Art Gallery founded.
- 1872 Governor Sir Hercules Robinson arrived—International Exhibition at Sydney—Death of W. C. Wentworth—Government Savings Banks—Public Works Expansion—Sydney Meat Preserving Works established—Cable to England completed.
- 1873 Intercolonial Conference, Sydney—First Volunteer encampment—Great activity on goldfields—San Francisco Company mail service established.
- 1874 Triennial Parliaments—Intercolonial Conference—General Post Office opened.
- 1875 New Land Act, "Dummying" restricted.
- 1876 Telegraphic Cable, Sydney-Wellington, completed—Rail to Bathurst opened.
- 1877 Conference of Free Selectors—Hargraves pensioned for goldfields discovery.
- 1878 Seamen's strike—Forestry and Timber regulations—Technical College instituted in connection with Sydney Mechanics' School of Arts—Free Public Library and Museum opened on Sundays.
- 1879 Governor Loftus arrived—Royal Zoological Society founded—Garden Palace International Exhibition—First Steam Tramway in Sydney—Copyright Act.
- 1880 Public Instruction Act passed—Temora Goldfield—Electoral Act—Sydney Streets woodpaved.
- 1881 Colonial Sugar Refining Company's mill erected, Richmond River—Chinese Immigration restricted—Women admitted to lectures, Sydney University.
- 1882 Garden Palace destroyed by fire—Forest Conservation—Clyde Engineering Works established.
- 1883 Silver discovered at Broken Hill—Broken Hill Proprietary Syndicate formed—Biloela Graving Dock—New South Wales and Victorian railway systems connected—Foundation Stone laid, Sydney Town Hall.
- 1884 Land Sales' auctions restricted—Public Watering Places Act—Smelting Furnaces, Sunny Corner and Silverton—New Land Act passed.
- 1885 N.S.W. Military Contingent sent to Soudan—Broken Hill Silver Mines opened—Governor Carrington succeeded Lord Loftus—Territorial Division of the Colony—Local Land Boards.
- 1886 Industrial Depression—"Ly-ee-Moon," "Coringamite," and "Helen Nicol" wrecks.
- 1887 Bulli Mining disaster (eighty-three lives lost)—Metropolitan Board of Water Supply and Sewerage established—Loyalist meeting in Sydney (Jubilee celebrations)—Peat's Ferry railway accident.
- 1888 Bush Fires—Centennial celebrations—Drastic Legislation against Chinese immigration (poll tax £100)—Colliers' strike at Newcastle—Weekly mail service to England inaugurated—New South Wales and Queensland railway systems connected.
- 1889 Hunter River Floods—Hawkesbury River Bridge opened.
- 1890 Payment of members of Parliament—Strike at Broken Hill—Maritime and Shearers' strikes—Bush Fires—Bourke (Darling River) Floods.
- 1891 Failure of many Building Societies—Governor Lord Jersey arrived—Labour members returned to Legislative Assembly—Australian Auxiliary Squadron arrived—Federal Convention—Colonial Premiers' meeting—Australasian Colonies join Postal Union—Sir John Robertson died—Assisted immigration ceased.
- 1892 Strike at Broken Hill—Run on Government Savings Bank—Council of Conciliation established—Women's College, Sydney University, opened—Hunter River District Water Supply Board.
- 1893 Banking Crisis—Governor Sir R. Duff arrived—Parcel post inaugurated—Gold discovered at Wyalong—Electoral Act, "One Man One Vote."
- 1894 Shearers' strike—Royal Commission on Fish industry—First Offenders' Probation Act—Sir Alf. Stephen died—Railway disaster, Redfern Station.

CHRONOLOGICAL TABLE.

- 1895 Land Legislation—Death of Sir R. Duff—Viscount Hampden succeeded—Land and Income Taxes imposed and Free-trade Tariff instituted.
- 1896 Death of Sir H. Parkes—Factories and Shops regulations—P. N. Russell bequest to School of Engineering, Sydney University—Public Service re-organised.
- 1897-8 Federal Convention Sessions, Adelaide, Sydney, and Melbourne.
- 1898 First year surplus of wheat for export.
- 1899 Earl Beauchamp succeeds Governor Hampden—Advances to Settlers instituted—Conciliation and Arbitration in Industrial Disputes—Australasian Federation Enabling Act Referenda—Early Closing of Shops—Boer War; first Contingent sent from New South Wales.
- 1900 Governor Beauchamp's Departure—Old-age Pensions instituted—Miners' Accident Relief Fund established—City Electric Tramways begun—Federal Elections.
- 1901 Federation of Australian Colonies—Industrial Arbitration Act—Duke of York's visit—Sydney Harbour Trust formed—Naval Contingent despatched to China—Federal High Court inaugurated.
- 1902 Sir H. H. Rawson as Governor—Mt. Kembla Colliery Explosion (ninety-five lives lost)—Jubilee of Sydney University—Women's Franchise—Closer Settlement—Public Health Act.
- 1903 Referendum favouring reduction of members of Legislative Assembly from 125 to 90.
- 1904 Reduced Parliament—Redistribution of Electorates—Second P. N. Russell bequest, Sydney University—Educational Reforms commenced.
- 1905 Flood on Tumut River—Assisted Immigration reintroduced.
- 1906 Barren Jack Dam authorised—Free Public School Education—North Coast Railway authorised—Local Government—Sydney Central Railway Station opened—Liquor Act, with drastic provisions—Federal Elections.
- 1907 Department of Agriculture formed—Invalidity and Accident Pensions—Telephone, Sydney to Melbourne.
- 1908 Visit of American Fleet—Industrial Disputes—Minimum Wage—Industrial Wages Boards constituted—Subventions to Friendly Societies—Yass-Canberra Federal Capital Site selection—Coal Strike, Newcastle—Tramway Strike, Sydney.
- 1909 Lord Chelmsford, Governor—Fisher Library opened—Empire Commerce Congress—Old-age Pensions transferred to Commonwealth—Botany Wool Combing Works—Premiers' Conference on States' finance agreement with Commonwealth Government—Miners' Strikes, Broken Hill and Newcastle.
- 1910 Miners' Strike ended—Mitchell Library opened—Federal Elections—Referendum favouring transfer of State Debts to Federal Government—Proposed States' finance agreement with Commonwealth rejected by referendum—Australian silver coinage issued.

METEOROLOGY AND CLIMATE.

THE State of New South Wales lies almost entirely between the 29th and 36th parallels of south latitude, and between the 141st and 154th meridians of east longitude. Mr. H. A. Hunt, Commonwealth Meteorologist, states that the weather is chiefly determined by anticyclones or areas of high barometric pressure, in which the winds blow spirally outward from the centre or maximum. These anticyclones pass almost continuously across the face of the continent from east to west. The explanation of the existence of this high-pressure belt probably lies in the fact that this area is within the zone in which the polar and equatorial currents meet and for some time circulate before flowing north and south. The easterly movement depends on the revolution of the earth.

A general surging movement occasionally takes place in the atmosphere, sometimes towards, and sometimes from, the equator. The movement causes sudden changes in the weather—heat when the surge is to the south, and very cold weather when it moves towards the equator. Probably, these sudden displacements of the air systems are due to thermal action, resulting in expansion or contraction in the atmospheric belts to the north and south of Australia.

New South Wales is peculiarly free from cyclones, although one, occasionally, may reach the State from the north-east tropics or the Antarctic low-pressure belt which lies to the south of Australia. The monsoonal disturbances are also, on rare occasions, the source of cyclones.

PREVAILING WINDS.

Generally speaking, the prevailing winds in the summer months blow from the north on the coast with an easterly tendency which extends to, and in parts beyond, the highlands, while in the western districts they usually have a westerly tendency.

In winter, the prevailing direction is westerly. Off the southern areas of the State the winds are almost due west, but proceeding northwards a southerly tendency is assumed, while on reaching latitudes north of Sydney the direction is almost due south. When they reach the north-eastern parts of the State, these winds are deflected in a westerly direction and become merged in the south-east trade winds north of latitude 30°. During the cold months of the year, Australia lies directly in the great high-pressure stream referred to elsewhere, and there appears to be an inclination for the high pressure when passing over the continent to be broken up into individual anticyclonic circulations moving contra-clockwise in the southern hemisphere.

The highest barometric readings, or the deepest anticyclonic area, will be found over the centre of Australia. From this high-pressure area the currents of wind begin to flow by force of gravity to the surrounding regions of lesser pressure, commencing at first with very light breezes flowing almost parallel to the trend of the isobar; but as they gather momentum they become more and more deflected, until on reaching the limit of the propelling force they blow nearly at right-angles to their isobars. This is more especially noticeable when they reach the south-eastern and south-western part of the continent, for in those regions the well-known V-shaped depressions of the Antarctic low-pressure belt add their attractive inner force to the outward repelling force of the high-pressure areas. The velocity of the wind at these points is thus considerably accelerated, and hence the storms and heavy seas prevailing during the winter months off the Ecuwin, in Western Australia, and on the coast of Victoria.

If we follow the path of a current of wind from the centre of a high pressure to its destined goal, viz., the centre of a low pressure, it will be found to describe an evolute curve, or circulate spirally outwards in its early stages, while the reverse is the case in the wind-path of low-pressure or cyclonic systems, the final stages being in the form of an involute curve. In addition to these phenomena of the wind in high and low pressure areas, there is also a tripping motion or deflection earthwards.

As winter merges into spring, and spring into summer, the passing of the sun to the south of the equator causes the tropical low-pressure belt to descend polewards, and within close touch of Australia. The high-pressure belt which in the winter months controls the weather, is likewise forced southwards, and travels over the Southern Ocean, an occasional anticyclone reaching the mainland in the latter end of the spring, but very seldom in summer.

With the coming southwards of this low-pressure belt, the weather is controlled during the summer months by sub-tropical conditions. The barometers on the mainland being relatively low as compared with the prevailing readings over the western, southern, and eastern ocean surrounding, a reversal of direction in wind currents takes place as compared with that experienced in winter. The depression then ensuing on the mainland (instead of a high pressure) is still further intensified by the action of the sun on the arid interior, and the winds immediately begin to respond to the low-pressure attractive force, and flow in from the surrounding ocean with a spiral motion. This movement must be duly regarded, or the cause of the prevailing north-east winds on our coast, as well as the "southerly busters," will not be clearly understood.

With a high-pressure system over the Tasman Sea, another to the west of the Great Australian Bight, monsoonal or tropical low depressions covering the greater part of the mainland, and an Antarctic V-depression to the west of the Tasman Sea, the wind conditions will be as follows:—

In the first place, the high pressure lying to the east of New South Wales, conforming to the laws of wind circulation in the southern hemisphere, has a northerly circulation on its western limits. As this boundary lies almost parallel to the trend of the coast-line, northerly winds are found to prevail some distance off the shore; but the circulation is weak, owing to the depleted energy in anticyclones at this time of the year (summer), and it is, therefore, necessary to look elsewhere for some other cause for the strength which prevails in the seasonal north-easters.

Continued observation at Sydney shows that these winds are barely perceptible during the morning hours; in fact, up to noon the air is hot and muggy, owing to a listless veering to the north-west bringing back the reflected heat in the air from the country lying between the seaboard and the mountains. But at noon, or shortly afterwards, a decided freshening takes place, until at about 3 p.m. a moderate to fresh breeze is blowing along the seaboard. Later in the day the force of the wind relaxes, until at sundown it ceases entirely.

These characteristics may occur day after day; and if such be the case, there is a tendency for the wind to commence earlier, and die away later. If no break occurs in the weather in the shape of a "southerly buster" or a thunderstorm, the north-easter, after blowing continuously for several days, may eventually blow throughout the night. In the early morning there will be a lull, followed by a fog—the precursor of a hot day. The fog is soon dissipated by light westerly winds and blown away to sea, and the wind then veers to the N.W., gradually increases in force, and is accompanied by a rapid rise in the temperature. The thermometer may, indeed, rise as much as 10 or 20 degrees in the course of a few hours, occasionally reaching a maximum of 100 degrees and over. During the evening a thunderstorm may bring

temporary relief, only to be followed by a sweltering night and a return of the north-west wind on the succeeding day. The heat conditions will probably be dissipated then by a "southerly buster," lasting possibly till morning. The "southerly buster" rarely persists for any lengthened period after sunrise during the midsummer months; but in late spring or early autumn it may last for several days.

The cause of the initial direction of the north-easters has been stated above; but it is in the low-pressure conditions prevailing over the interior that an explanation of their velocity is to be sought. In the early morning the barometers in that region are uniformly level; but with the rising of the sun the air becomes heated, expands, and ascends. A fall in the barometric pressure is the result, while to fill the partial void occasioned by the rising of the heated air, a current sets in from the coastal regions. This indraft to the interior gathers strength in proportion to the increase of the sun's power there, while it diminishes with the declining sun according as the inflow is sufficient to raise the inland pressure to uniformity.

But while this low pressure is fairly constant over the mainland, the anti-cyclone in the Great Bight is steadily moving eastward over the Southern Ocean, with its accompanying Antarctic depression in advance. When this low pressure has passed to the east of Tasmania, its vortical power is also exercised upon the northerly current blowing off the coast, with the result that the north-easter is deflected into a north-wester, and the winds are drawn from the interior across the coastal regions to supply this new attractive force. The V-depression, impinging on the high pressure to the east of it, and at the same time being compressed by the still advancing high pressure to the west, loses its former obtuse-angular formation, which finally becomes acute. A line bisecting this angle divides the northerly circulation in the fore-angle from the southerly circulation in that of the rear. At the same time the entire system is sucked northwards by the continental depression. Hence it follows that in succession to the extremely hot north-westerly winds we experience after a very short lull a burst from the south of even greater velocity than that of the preceding currents. The thunderstorms that frequently precede or accompany the change are probably caused by the violent intermixing of these opposing currents, with their extremes of dryness and humidity, assisted in no small measure by the dust particles pervading the air generally.

THE SEASONS, TEMPERATURE, AND RAINFALL.

Situated as it is in the temperate zone, New South Wales has four seasons, depending on the annual march of temperature. From a meteorological point of view, these are arranged as follows:—Summer months, December, January, and February; autumn months, March, April, and May; winter months, June, July, and August; spring months, September, October, and November.

January is the hottest and July the coldest month, and the temperatures of autumn and spring represent approximately the mean of the whole year.

New South Wales may be compared favourably with any country in the world. Taking into consideration the comparatively low latitudes in which it is situated, it offers a remarkable variety of temperate climates. From Kiandra, on the Southern Tableland, to Bourke, on the Great Western Plain, its climate may be compared with that of the part of Europe from Edinburgh to Messina; but more generally it resembles that of Southern France and Italy.

The rainfall of New South Wales is extremely variable. Generally speaking, the wet season extends over the first six months of the year, although occasionally the most serviceable rains come in the spring. The coastal

districts are subject to the heaviest falls, ranging from 30 inches in the south to 70 inches in the north. Despite their proximity to the sea, the mountain chains are not of sufficient elevation to cause any great condensation, so that, with slight irregularities, the average rainfall gradually diminishes towards the western limits of the State, the figures ranging from a mean of about 50 inches on the seaboard to 10 or 20 inches on the western plains.

The distribution of rainfall in New South Wales is dependent on three factors—(1) the energy present in the atmospheric systems, (2) the rate of travel of the atmospheric stream, and (3) the prevailing latitudes in which the anticyclones are moving.

The chief agencies for precipitating rainfall are also three in number, viz. Antarctic depressions, monsoonal depressions, and anticyclonic systems. Antarctic depressions are mainly responsible for the good winter rains in the Riverina and on the south-western slopes. A seasonal prevalence of this type of weather would cause a low rainfall on the coast and tablelands, and over that portion of the inland district north of the Lachlan River. A monsoonal prevalence ensures a good season inland north of the Lachlan, but not necessarily in eastern and southern areas. An anticyclonic prevalence results in good rains over coastal and tableland districts, but causes dryness west of the mountains. Equal representation of all these agencies, in conjunction with the main governing features previously stated, will be followed by a good season throughout the State.

New South Wales may be divided, naturally, into four climatic divisions, each with characteristic features, namely:—The Coastal division, the Tableland, the Western Slopes, and the Western Plains.

The Coastal division lies between the Great Dividing Range and the sea, and is from 30 to 150 miles wide. Sydney is situated on the coast, halfway between the extreme northern and southern limits of the State, in latitude $33^{\circ} 51' 41''$ S. Its mean annual temperature is 63° Fahrenheit, corresponding with that of Barcelona in Spain, in latitude $41^{\circ} 22' N.$, and Toulon in France, in latitude $43^{\circ} 7' N.$ The range is only 17° , calculated over a period of fifty-one years, the mean summer temperature being about 71° , and the mean winter temperature 54° . At Naples, which has about the same mean temperature as Sydney, the range is 27° , between the means 74° and 47° .

The following table shows the average monthly meteorological conditions of Sydney based on the experience of the fifty-one years ended 1909:—

Month.	Average Reading of Standard Barometer at 9 a.m. corrected to 32° Fahr. and to mean sea level.	Temperature (in shade).				Rainfall.			
		Mean Standard.	Average Reading of Maximum Thermometer.	Average Reading of Minimum Thermometer.	Average Monthly.	Greatest Monthly.	Least Monthly.	Average number of days Rain.	
January	29·931	71·6	78·3	64·9	3·408	10·489	0·419	14·1	
February	29·983	71·0	77·2	64·8	4·770	18·556	0·344	14·1	
March	30·060	69·3	75·4	63·0	5·087	18·700	0·419	15·1	
April	30·116	64·6	70·9	58·2	5·315	24·490	0·060	13·4	
May	30·104	58·5	64·9	52·0	5·052	20·868	0·214	15·7	
June	30·097	54·3	60·4	48·2	5·311	16·296	0·190	12·9	
July	30·119	52·3	58·9	45·6	4·539	13·208	0·120	12·2	
August	30·114	54·8	62·2	47·5	3·268	14·886	0·040	11·6	
September	30·053	58·8	66·3	51·3	2·916	14·045	0·083	12·2	
October	30·008	63·5	71·1	55·8	2·838	10·810	0·210	12·7	
November	29·989	66·9	74·3	59·6	2·989	9·880	0·200	12·6	
December	29·920	70·0	77·2	62·8	2·480	7·804	0·453	12·8	
The whole year	30·041	63·0	69·8	56·1	47·973	24·490	0·040	159·4	

Taking the coast as a whole, the difference between the mean summer and mean winter temperature is not much over 20°—a range so small as to be rarely found elsewhere.

The North Coast districts are favoured with a warm, moist climate, the rainfall averaging from 40 to 70 inches annually. The mean temperature for the year is from about 66° to 69°, the mean summer being 75° to 78°, and the mean winter 56° to 58°. In the South Coast district the rainfall varies from 30 to 60 inches, and the mean temperature ranges between 57° and 63°, the summer mean being from 66° at the foot of the ranges to 70° on the coast, and the winter from 48° to 54° over the same area.

The coastal rains come in from the sea with both south-east and north-east winds, being further augmented in the later part of the year by thunderstorms, which cross the mountains from the north-west. The principal precipitating agencies are the Antarctic depressions, the anti-cyclones when travelling in high latitudes, while in the extreme north-east reliable rains are precipitated by the south-east trades. The rainfalls are much heavier immediately near the coast.

The following table shows the meteorological conditions of the principal stations in the coastal divisions, arranged in the order of their latitude. These stations are representative of the whole division, and the figures are the average of a large number of years.

Station.	Least Distance from East Coast.	Altitude.	Temperature (in Shade).						Rainfall— Mean Annual.
			Mean Annual.	Mean Summer.	Mean Winter.	Mean Daily Range.	Highest.	Lowest.	
Casino	28	82	67.1	74.2	56.3	25.6	116.4	21.0	43.54
Lismore	13	52	67.8	78.2	59.4	22.2	116.2	23.0	52.80
Clarence Heads	0	122	68.1	74.4	58.6	15.1	108.0	36.4	55.56
Grafton	22	40	67.2	77.1	57.6	27.0	118.0	20.9	38.70
Port Macquarie	0	49	63.8	71.6	54.9	17.6	105.4	24.8	61.54
Singleton	40	135	64.2	76.1	52.1	20.3	113.9	22.0	29.53
Morpeth	15	20	63.8	73.9	54.3	18.1	108.7	26.0	38.67
West Maitland	18	40	64.3	75.0	52.8	20.5	115.0	24.0	33.75
Port Stephens	0	30	64.1	72.6	53.1	20.8	111.2	30.2	53.31
Newcastle	1	34	64.5	72.5	55.4	15.4	110.5	31.3	47.18
Pitt Town	26	40	64.0	76.1	52.6	20.0	113.0	27.2	30.75
Emu	36	87	62.7	73.2	50.4	16.2	107.6	26.8	29.88
Sydney	5	146	63.0	70.9	53.8	13.7	108.5	35.9	47.97
Wollongong	0	54	62.9	70.1	54.8	17.0	113.4	31.9	41.86
Nowra	6	30	62.8	70.6	54.3	21.0	110.3	29.6	34.80
Point Perpendicular	0	284	61.6	69.1	53.8	15.0	105.2	25.5	56.53
Moruya Heads	0	50	61.2	68.2	53.1	19.8	114.8	22.3	35.27
Bodalla	7	40	59.9	69.1	50.5	27.7	114.1	18.6	36.14
Bega	0	50	59.7	69.6	48.9	24.9	115.6	16.6	31.35
Eden	0	107	60.0	67.7	51.8	14.2	106.0	29.3	34.20

Coming to the tableland from the coast, a different climatic region is found. On the northern tableland the rainfall is consistent, ranging from 30 inches in the western parts to 40 inches in the eastern. The temperature is cool and bracing, the average for the year being between 54° and 60°: the mean summer temperature lies between 65° and 70°, and the mean winter between 43° and 45°. The southern tableland is the coldest part of the State, the mean annual temperature being only about 56°. In the summer the mean ranges from 57° to 68°, and in the winter from 34° to 44°. At Kiandra, the elevation of which is about 4,640 feet, the mean annual temperature is 44.5°. Near the southern extremity of the tableland, on the Snowy and Muniong Ranges, the snow generally lingers throughout the year.

The statement below shows, for the tableland division, similar particulars to those already given for the coastal division :—

Station.	Least Distance from East Coast.	Altitude.	Temperature (in Shade).						Rainfall— Mean Annual.
			Mean Annual.	Mean Summer.	Mean Winter.	Mean Daily Range.	Highest.	Lowest.	
	miles.	feet.	°	°	°	°	°	°	inches.
Tenterfield	80	2,827	59·4	70·1	47·2	25·6	107·1	12·0	33·48
Inverell	124	1,980	60·0	73·1	45·9	25·0	110·6	13·4	30·62
Glen Innes	90	3,518	57·9	68·2	44·4	24·7	107·3	14·4	31·90
Bundarra	113	2,000	60·8	72·3	48·8	25·2	101·0	17·5	29·77
Armidale	81	3,333	56·4	67·8	44·0	24·3	105·2	13·9	31·61
Walcha	83	3,386	54·5	66·3	47·4	23·4	104·1	10·0	30·52
Murrurundi	94	1,545	60·9	73·7	49·7	19·8	107·3	19·0	31·81
Cassilis	120	1,500	60·8	73·6	45·3	21·7	111·7	15·8	23·87
Scone	78	680	62·7	74·8	49·8	23·4	114·4	22·2	23·59
Muswellbrook	68	475	63·8	75·2	49·4	25·4	117·6	19·0	23·56
Mudgee	121	1,635	62·1	73·8	49·0	29·3	114·9	18·0	26·00
Bathurst	96	2,200	57·2	70·0	44·1	28·3	112·5	13·0	23·72
Kurrajong Heights	35	1,870	53·3	61·7	43·9	13·3	99·5	25·5	49·88
Mount Victoria	61	3,490	54·4	65·2	42·6	19·6	106·0	11·9	36·91
Katoomba	58	3,349	53·5	63·0	42·4	15·3	100·0	25·9	55·87
Carcoar	111	2,380	56·1	70·4	43·0	19·4	104·9	15·4	29·67
Springwood	42	1,216	61·1	70·8	47·2	17·4	104·8	32·5	40·57
Cowra	126	987	63·1	78·8	48·5	23·5	116·1	21·0	24·44
Picton	22	549	60·0	71·7	49·2	24·3	112·0	19·7	29·09
Crookwell	81	2,000	52·0	64·7	39·4	23·7	100·8	12·1	31·79
Moss Vale	31	2,205	55·7	66·1	44·1	17·7	106·0	18·9	38·37
Goulburn	54	2,129	56·4	67·9	44·0	24·6	111·0	13·0	25·38
Yass	92	1,657	58·5	71·8	44·1	20·7	108·5	21·5	23·91
Queanbeyan	60	1,899	56·5	67·4	42·0	22·2	109·4	15·8	22·48
Kiandra	88	4,640	44·5	56·4	32·4	24·0	102·3	²⁰ below zero	64·01
Cooma	52	2,637	54·3	60·2	41·6	29·1	112·0	8·5	19·06
Bombala	37	3,000	53·9	62·4	42·8	26·6	104·1	15·5	22·74

To the west of the tableland division, where the land slopes away to the great plain district of the interior, the rainfall is distributed uniformly, and varies from 20 inches in the western parts to 30 inches in the eastern. By far the greater part of the wheat area is situated on the western slopes, an average rainfall of 25 inches being sufficient to ensure good yields. The mean annual temperature ranges from 69° in the north to 60° in the south ; in the summer from 81° to 74°, and in the winter from 53° to 47°.

North of the Lachlan River, good rains are expected from the monsoonal disturbances during February and March, although these may come as late as May, and incidentally during the remainder of the year. These monsoonal or seasonal rains are caused by the radiation in the interior during the summer months. The heat, during this period, suspends the moisture accumulated chiefly from the Southern Ocean, and towards the close of the

summer and early in autumn the sun's power is reduced and the dew-point reaches the precipitating point.

In the Riverina district, south of the Murrumbidgee generally, and on the south-western slopes, fairly reliable rains, light but frequent, are experienced during the winter and spring months. These are an extension of the rains from South Australia and Victoria, and are carried into New South Wales by south-west winds, off-shoots from the great trade-wind belt.

The next statement gives, for the principal stations on the western slopes, information similar to that shown for the coastal and tableland divisions :—

Station.	Least Distance from East Coast.	Altitude.	Temperature (in Shade).						Rainfall— Mean Annual.
			Mean Annual.	Mean Summer.	Mean Winter.	Mean Daily Range.	Highest.	Lowest.	
	miles.	feet.	°	°	°	°	°	°	inches.
Moree	204	680	68·6	81·1	54·5	26·5	117·3	18·0	23·48
Warialda	162	1,106	63·4	77·8	49·3	29·4	117·7	16·0	28·06
Bingara	153	1,200	63·9	75·1	52·7	28·4	116·6	15·5	30·62
Narrabri	193	697	66·8	81·0	51·8	28·8	118·9	18·4	26·31
Gunnedah	156	874	66·1	79·6	51·2	28·0	120·6	16·7	25·02
Coonabarabran	185	1,710	59·9	73·1	46·4	33·1	111·9	11·4	29·63
Quirindi	115	1,278	63·9	76·5	48·5	27·1	113·6	17·0	27·95
Dubbo	177	863	63·6	77·4	49·2	27·4	115·4	19·9	22·44
Forbes	176	789	63·0	77·0	48·6	24·5	118·4	24·0	19·97
Young	140	1,416	61·2	74·1	48·3	28·2	113·9	20·3	25·31
Marsdens	187	700	64·8	76·8	49·2	25·0	119·7	19·0	19·53
Murrumburrah	126	1,268	61·1	72·7	46·9	27·1	114·9	20·0	22·98
Wagga Wagga	158	615	61·6	76·0	47·3	28·1	119·0	18·4	21·57
Urana	213	400	62·3	76·2	48·1	22·6	117·0	18·4	16·96
Albury	175	531	60·7	74·4	47·2	28·3	117·3	20·2	28·02

The western district consists of a vast plain, the continuity of which is broken only by the insignificant Grey and Barrier Ranges. Owing to the absence of mountains in the interior, the annual rainfall over a great part of this division, which lies in the zone of perpetual high pressure, does not exceed 10 inches. It increases from 8 inches on the western boundary to 10 and 15 inches along the Darling River, and 20 inches on the eastern limits. The mean annual temperature ranges from 69° in the north to 62° in the south; in the summer from 83° to 74°, and in the winter from 53° to 45°.

Although the summer readings of the thermometer in this district may be from 10° to 20° higher than those on the coast, the heat is not distressing, and is, in fact, preferred by many people to the moisture and more enervating heat of the coastal regions. Excessive heat is experienced occasionally, and with many summers intervening, its occurrence being in all probability due to a temporary stagnation in the easterly atmospheric drift. Under normal conditions, air entering Western Australia with a temperature of from 70° to 80° would only accumulate 20° to 25° by contact with the radiation from the soil during its passage across the continent.

Where there is stagnation, however, the air resting over the sandy soils of the interior becomes superheated, and on reaching the western districts of the eastern States shows a temperature sometimes as much as 40° above the normal. Extensive bush fires also cause a local rise in temperature, and this is due, not only to the actual heat generated, but also to the liberation of combustible matter into the atmosphere; and it has further been affirmed that the presence of a small excess of carbonic acid gas above the normal quantity in air raises the temperature several degrees. The winter is almost perfect. An average temperature of over 50°, accompanied by clear skies and an absence of snow, leaves little to be desired. It is fortunate, from the standpoint of health, that the climate of the Western Division is dry, otherwise the interior of the State, probably, would have become, with abundant rains, an impenetrable jungle. It is also owing chiefly to the dryness of the climate that Australia produces the best merino wool in the world.

The meteorological conditions of the western plains will be seen from the following statement; the information is similar to that given already for the other divisions of the State:—

Station.	Least Distance from East Coast.	Altitude.	Temperature (in Shade).						Rainfall— Mean Annual
			Mean Annual.	Mean Summer.	Mean Winter.	Mean Daily Range.	Highest.	Lowest.	
	miles.	feet.	°	°	°	°	°	°	inches.
Brewarrina	345	430	69·3	84·0	52·9	26·3	122·3	24·8	16·58
Walgett... ..	286	522	68·3	82·7	52·9	25·8	122·2	23·7	19·01
Bourke	386	350	69·3	83·4	54·0	27·3	127·0	25·0	15·13
Wilcannia	473	246	66·5	80·3	52·1	26·2	120·8	21·8	10·27
Cobar	345	803	66·6	81·5	51·7	24·9	118·7	25·0	14·53
Broken Hill	555	1,000	64·7	79·1	50·8	23·3	115·9	28·0	9·18
Mount Hope	296	600	65·3	80·9	50·3	24·8	123·6	24·6	15·13
Condobolin	227	700	62·7	76·8	50·8	25·6	122·2	20·5	17·61
Wentworth	478	144	64·1	76·9	51·1	26·7	119·0	25·0	11·80
Hay	309	291	63·5	76·2	50·4	28·5	117·3	21·1	14·18
Euston	422	188	64·2	77·0	51·0	33·2	124·8	17·1	12·16
Deniliquin	287	268	61·9	74·6	48·2	30·2	121·1	18·0	16·33

CONSTITUTION AND GOVERNMENT

THE people of New South Wales enjoy the privileges of a most liberal Constitution. The principles of representative government are conserved, and equal privileges are bestowed on all citizens by the extensive franchise, individual liberty being as freely maintained as in any other civilised community.

The beginning of self-government is found in the first Legislative Council, of seven members, nominated in 1824, to assist the Governor in his administration. Prior to that date the control of the State was entirely in the hands of the Governor, who was responsible only to the Imperial authorities. The membership of this Council was afterwards extended, but the mode of government was not in accordance with the principles of a free settlement, and was found inefficient in directing the progress of the colony, and the expansion of its commercial and agricultural interests. But it was not till 1843 that the people were given any direct representation in the Legislature. In that year an Imperial Act constituted a Legislative Council of thirty-six members—twelve of whom were nominated by the Crown and twenty-four elected by the people.

This system of government did not give satisfaction to the colonists, and constant agitation for a larger measure of self-government gained strength with the rapid increase of population, in consequence of the gold discoveries. In 1851 an Imperial Act was passed, which gave authority to the Council to prepare a Constitution for New South Wales, and responsible Government was established under an Imperial Act passed in 1855.

The Legislature was formed on the model of the British Parliament, and consists of two Houses of Parliament—the Legislative Council and the Legislative Assembly—whose enactments are subject to the approval of the Governor, as representative of the British Sovereign. Under the Constitution Act the Legislature has power to make laws for the peace, welfare, and good government of New South Wales, provided that all bills for appropriating any part of the public revenue, or for imposing any new rate or tax, shall originate in the Legislative Assembly. The powers of Parliament are subject to the restrictions of the Commonwealth of Australia Constitution Act.

THE GOVERNOR.

The Governor is the representative of the British Sovereign, and is appointed by the Imperial Government.

The powers and privileges of the Governor are set forth in his Commission. As representative of the Crown, he has power to assent to Acts of Parliament, or to withhold the assent pending reference to the Imperial Government, and there are certain classes of bills to which he is bound to refuse Royal assent. He may summon his own Executive Council, appoint Judges, Justices of the Peace, Commissioners, and other necessary officers and Ministers, and may remove these officials from their positions. The prerogative of mercy is vested in him, but is never exercised except with the advice of the Executive Council.

The Governor may appoint members of the Upper House, and summon, prorogue, or dissolve any Parliament. In the exercise of these functions he is in general guided by the advice of the Executive Council, but in special circumstances he acts at his own discretion, especially with regard to dissolution.

The term of office for which the Governor is appointed is five years, and his salary of £5,000 per annum, also certain allowances for his staff, are provided by the Constitution out of the revenues of the State.

The present Governor is Baron Chelmsford, K.C.M.G. The succession of Governors, from the foundation of the State to the present time, is given in the following statement:—

SUCCESSION OF GOVERNORS.

	From	To
Captain A. Phillip, R.N.	26 Jan., 1788	10 Dec., 1792
Major F. Grose, New South Wales Corps (Lieutenant-Governor)	11 Dec., 1792	12 Dec., 1794
Captain W. Paterson, N.S.W. Corps (Lieutenant-Governor)	13 Dec., 1794	1 Sept., 1795
Captain J. Hunter, R.N.	7 Sept., 1795	27 Sept., 1800
Captain P. G. King, R.N.	28 Sept., 1800	12 Aug., 1806
Captain W. Bligh, R.N.	13 Aug., 1806	26 Jan., 1808
During Governor Bligh's suspension--		
Major G. Johnston, N.S.W. Corps	26 Jan., 1808	28 Dec., 1809
Lieutenant-Colonel J. Foveaux, N.S.W. Corps		
Colonel W. Paterson, N.S.W. Corps		
Major-General L. Macquarie	1 Jan., 1810	30 Nov., 1821
Major-General Sir T. Brisbane, K.C.B.	1 Dec., 1821	30 Nov., 1825
Lieutenant-General Ralph Darling	19 Dec., 1825	21 Oct., 1831
Major-General Sir Richard Bourke, K.C.B.	Dec., 1831	5 Dec., 1837
Sir George Gipps, Knt.	24 Feb., 1838	11 July, 1846
Sir Charles A. Fitzroy, K.C.B., K.H.	2 Aug., 1846	17 Jan., 1855
Sir William Thomas Denison, K.C.B.	20 Jan., 1855	22 Jan., 1861
The Right Honorable Sir John Young, K.C.B., G.C.M.G.	22 Mar., 1861	24 Dec., 1867
The Right Honorable the Earl of Belmore, P.C.	8 Jan., 1868	22 Feb., 1872
Sir Hercules George Robert Robinson, G.C.M.G.	3 June, 1872	19 Mar., 1879
The Right Honorable Sir Augustus William Frederick Spencer Loftus, P.C., G.C.B.	4 Aug., 1879	9 Nov., 1885
The Right Honorable Baron Carrington, P.C., G.C.M.G.	12 Dec., 1885	1 Nov., 1890
The Right Honorable the Earl of Jersey, P.C. G.C.M.G.	15 Jan., 1891	28 Feb., 1893
The Right Honorable Sir Robert William Duff, P.C., G.C.M.G.	29 May, 1893	15 Mar., 1895
The Right Honorable Viscount Hampden, G.C.M.G. ...	21 Nov., 1895	5 Mar., 1899
The Right Honorable Earl Beauchamp, K.C.M.G.	18 May, 1899	30 April, 1901
Admiral Sir H. H. Rawson, R.N., G.C.B.	27 May, 1902	27 May, 1909
The Right Honorable Baron Chelmsford, K.C.M.G. ...	28 May, 1909	Still in office.

During the absence of the Governor from the State, and during the intervals between the departure of the Governor and the arrival of his successor, the duties are performed by a Lieutenant-Governor.

THE LEGISLATIVE COUNCIL.

The Legislative Council must consist of at least twenty-one members, who are nominated by the Governor under the authority of the Crown. Any adult British subject may be appointed, except members of the Federal Parliament or the State Legislative Assembly, Government contractors, insolvent debtors, or criminals. The members are appointed for life, and do not receive any remuneration for their services, but are allowed to travel free on the State railways. A member forfeits his seat if absent without leave from two successive sessions. The number of Councillors at present is fifty-four.

THE LEGISLATIVE ASSEMBLY.

The Legislative Assembly consists of ninety members, elected by the people. Every member must be an adult British subject, and entitled to a vote at the Parliamentary elections. Members of the Federal Legislature and of the Legislative Council are disqualified for membership, as well as persons holding non-political offices of profit under the Crown and State pensioners. Each member receives the sum of £300 per annum by way of reimbursement for expenses incurred in the discharge of Parliamentary duties, and is allowed to travel free on the State railways.

The Parliament may be dissolved at the discretion of the Governor, if the Government is defeated in the Assembly, otherwise it exists for three years. Prior to 1874 the limit of duration was five years.

The Constitution Act makes no distinction between the powers and privileges of the two Houses of Parliament, but no inconvenience has been felt on this score, since it is tacitly agreed that the procedure in each House shall be conducted according to that of its prototype in the Imperial Parliament.

A list of the Parliaments since Responsible Government was established is shown below:—

Parliament.	Opened.	Dissolved.	Duration.			No. of Sessions.
			yr.	moth.	dy.	
First	22 May, 1856...	19 Dec., 1857...	1	6	28	2
Second	23 March, 1858...	11 April, 1859...	1	0	19	2
Third	30 Aug., 1859...	10 Nov., 1860...	1	2	11	2
Fourth	10 Jan., 1861...	10 Nov., 1864...	3	10	0	5
Fifth	24 Jan., 1865...	15 Nov., 1869...	4	9	22	6
Sixth	27 Jan., 1870...	3 Feb., 1872...	2	0	7	3
Seventh	30 April, 1872...	28 Nov., 1874...	2	6	28	4
Eighth	27 Jan., 1875...	12 Oct., 1877...	2	8	16	3
Ninth	27 Nov., 1877...	9 Nov., 1880...	2	11	12	3
Tenth	15 Dec., 1880...	23 Nov., 1882...	1	11	8	3
Eleventh	3 Jan., 1883...	7 Oct., 1885...	2	9	4	6
Twelfth	17 Nov., 1885...	26 Jan., 1887...	1	2	9	2
Thirteenth	8 March, 1887...	19 Jan., 1889...	1	10	11	3
Fourteenth	27 Feb., 1889...	6 June, 1891...	2	3	7	4
Fifteenth	14 July, 1891...	25 June, 1894...	2	11	11	4
Sixteenth	7 Aug., 1894...	5 July, 1895...	0	10	29	1
Seventeenth	13 Aug., 1895...	8 July, 1898...	2	10	26	4
Eighteenth	16 Aug., 1898...	11 June, 1901...	2	9	26	5
Nineteenth	23 July, 1901...	16 July, 1904...	2	11	24	4
Twentieth	23 Aug., 1904...	12 July, 1907...	2	10	20	4
Twenty-first	2 Oct., 1907...	.....	.....	.....	.....	.....

The first Legislative Assembly, elected in 1856, consisted of 54 members. Votes were allowed to all male adult British subjects who, at the time of registration of electors and for six months previously to that date, owned freehold estate valued at £100, or occupied building or lodging, or land under lease of three years, valued at £10. Holders of Government pastoral licenses and persons who had a yearly salary of £100, or paid £40 per annum for board and lodging, were also entitled to vote. Electors were allowed a vote in each electorate in which they possessed the necessary qualifications. In 1858 the membership of the Assembly was increased to 72, and the franchise was given to every male adult British subject who for six months previously to the collection of the rolls had resided in the district and held property of the clear value of £100 or annual value of £10, or occupied building valued £10 per annum, or held Crown lease or license for pastoral purposes. Holders of miners' rights were allowed to vote in "goldfields" electorates. Officers of military or police services were disqualified, as well as the insane, criminals, and persons in receipt of public charity.

An Electoral Act was passed in 1880, by which 108 members were elected, and provision was made for increased representation in accordance with the growth of the population. Under this provision the number of members in 1891 had increased to 141, elected in 74 districts. The year 1893 is marked by a most important change in the system of Parliamentary representation. Under an enactment passed in that year the State was divided into 125 electorates, each represented by one member. The franchise was remodelled by the introduction of universal manhood suffrage, and the principle of allowing each elector to vote only in one electorate equalised the privileges of citizenship. A vote was given to every male adult who had

resided continuously for one year in the State, provided that he was a British subject and became enrolled in the electoral district, in which he had resided for three months previously to the election. The disqualification of the police was removed in 1896; and in 1903 the franchise was extended to women, thus establishing adult suffrage, the most liberal type of representation in the world.

The following table shows the voting at the six elections held since plural voting was abolished:—

Parliament.		Voters on Roll.	Number of Electors to a Member.	Total Members returned.	Members unopposed.	Contested Electorates.				
Year.	Number.					Electors on Roll.	Votes recorded.	Percentage of Votes recorded.	Informal Votes.	Percentage of Informal Votes.
1894	16th ...	298,817	2,390	125	1	254,105	204,246	80.38	3,310	1.62
1895	17th ...	267,458	2,139	125	8	238,233	153,034	64.24	1,354	0.88
1898	18th ...	324,339	2,595	125	3	294,481	178,717	60.69	1,638	0.92
1901	19th ...	346,184	2,769	125	13	270,861	195,359	72.13	1,534	0.79
1904	20th {	Males... 363,062 Females 326,428	7,661	90	2	304,396	226,057	74.26	3,973	0.59
1907	21st {	Males... 392,845 Females 353,055	8,288	90	5	370,715	267,301	72.10	13,543	2.97

Making due allowance for unpreventable causes and for the inconvenience which attendance at the polling-booth sometimes entails, especially in sparsely-settled districts, these figures indicate a deplorable lack of interest on the part of a large percentage of the electors. This is more marked in the case of the women. At the first election after their enfranchisement only 66.5 per cent. recorded their votes, and at the last election nearly two-fifths disregarded their franchise. In the case of the males, the highest proportion of votes, 80.4 per cent., was recorded at the first election shown in the table. At this election the interest of the people was excited by a strenuous contest on the question of fiscal reform, but at the succeeding two elections there was no definite issue at stake, as negotiations for federation with the other States were in progress. At the following elections the percentage of voters increased, and in 1907 the figure was 72 per cent. Thus, although the facilities for voting had been greatly improved, there were still more than one-fourth of the male electors who did not vote.

The number of informal votes was very high at the last election, being nearly 3 per cent. of the total votes recorded.

After the federation of the Australian States the question of reducing the membership of the State Parliament was submitted to the electors, and a referendum in 1904 resulted in its reduction to 90 representatives. The following table shows the average number of persons represented by each member of the Assembly and the proportion of the population enrolled on the electoral lists at various dates on which the membership or franchise has been altered since the opening of the first Parliament and at each year of election since 1901:—

Year of Election.	Number of Members.	Population per Member.	Percentage of Population Enrolled.
1856	54	5,200	15.8
1858	72	4,500	22.3
1880	108	6,900	25.2
1885	122	7,800	24.5
1901	141	8,100	26.7
1894	125	9,800	24.3
1901	125	10,900	25.3
1904	90	16,100	47.7
1907	90	17,500	47.4

The number of distinct electors cannot be ascertained for any period prior to the year 1894, and the figures in the last column have been calculated on the total number of votes to which the electors on the roll were entitled; they are, therefore, somewhat in excess of the actual proportions. At the census of 1901 the percentage of adult males in the total population was about 28, and of adults, males and females, 51·7. At the election in 1901 the proportion of the population enrolled was 25 per cent., and after the Women's Franchise Act was passed it rose to 47 per cent.

THE EXECUTIVE COUNCIL.

The leader of the Government in the Legislative Assembly forms from its members a Cabinet of eight responsible Ministers, who are placed in charge of the various Government departments, and conduct the general business of Parliament. These Ministers and the representatives of the Government in the Legislative Council constitute the Executive Council, under the presidency of the Governor. If the Government be defeated on an important issue in the Assembly, the members of the Cabinet tender their resignations, and the Governor decides whether the House shall be dissolved or a Cabinet formed by a new leader.

MINISTRIES.

The various Ministries which have held office since the establishment of Responsible Government, together with the duration in office of each, are shown below:—

No.	Ministry.	From—	To—	Duration.	
				months.	days.
1	Donaldson	6 June, 1856	25 Aug., 1856	2	20
2	Cowper	26 Aug., 1856	2 Oct., 1856	1	8
3	Parker	3 Oct., 1856	6 Sept., 1857	11	4
4	Cowper	7 Sept., 1857	26 Oct., 1859	25	20
5	Forster	27 Oct., 1859	8 Mar., 1860	4	13
6	Robertson	9 Mar., 1860	9 Jan., 1861	10	1
7	Cowper	10 Jan., 1861	15 Oct., 1863	33	6
8	Martin	16 Oct., 1863	2 Feb., 1865	15	18
9	Cowper	3 Feb., 1865	21 Jan., 1866	11	19
10	Martin	22 Jan., 1866	26 Oct., 1868	33	5
11	Robertson	27 Oct., 1868	12 Jan., 1870	14	17
12	Cowper	13 Jan., 1870	15 Dec., 1870	11	3
13	Martin	16 Dec., 1870	13 May, 1872	16	29
14	Parkes	14 May, 1872	8 Feb., 1875	32	26
15	Robertson	9 Feb., 1875	21 Mar., 1877	25	13
16	Parkes	22 Mar., 1877	16 Aug., 1877	4	26
17	Robertson	17 Aug., 1877	17 Dec., 1877	4	1
18	Farnell	18 Dec., 1877	20 Dec., 1878	12	3
19	Parkes	21 Dec., 1878	4 Jan., 1883	48	15
20	Stuart	5 Jan., 1883	6 Oct., 1885	33	2
21	Dibbs	7 Oct., 1885	21 Dec., 1885	2	15
22	Robertson	22 Dec., 1885	25 Feb., 1886	2	4
23	Jennings	26 Feb., 1886	19 Jan., 1887	10	22
24	Parkes	20 Jan., 1887	16 Jan., 1889	23	28
25	Dibbs	17 Jan., 1889	7 Mar., 1889	1	19
26	Parkes	8 Mar., 1889	22 Oct., 1891	31	15
27	Dibbs	23 Oct., 1891	2 Aug., 1894	33	11
28	Reid	3 Aug., 1894	13 Sept., 1899	61	11
29	Lyne	14 Sept., 1899	27 Mar., 1901	18	14
30	See	28 Mar., 1901	14 June, 1904	38	18
31	Waddell	15 June, 1904	29 Aug., 1904	2	15
32	Carruthers	30 Aug., 1904	1 Oct., 1907	37	3
33	Wade	2 Oct., 1907	Still in office.	.....	.....

The Wade Ministry, which is at present in office, is composed of the following members:—

Premier and Attorney-General	Hon. C. G. WADE, K.C.
Colonial Secretary and Secretary for Mines	Hon. W. H. WOOD.
Colonial Treasurer	Hon. T. WADDELL.
Secretary for Lands	Hon. S. W. MOORE.
Secretary for Public Works	Hon. C. A. LEE.
Minister for Agriculture	Hon. J. PERRY.
Minister of Public Instruction, and for Labour and Industry	Hon. J. A. HOGUE.
Minister for Justice and Solicitor-General	Hon. J. GARLAND.
Minister without portfolio	Hon. C. W. OAKES.
Vice-President of Executive Council, and Representative of the Government in the Legislative Council	Hon. J. HUGHES.

The following statement shows the cost of Parliamentary Government in New South Wales during the year ended 30th June, 1909:—

Head of Expenditure.	Amount.
Governor—	£
Governor's salary	5,000
Private Secretary's salary	350
Aide-de-Camp	412
Repairs and maintenance of Governor's Residences	2,843
Miscellaneous	71
Total	£ 8,676
Executive Council—	
Salaries of Officers	500
Ministry—	
Salaries of Ministers	11,040
Other expenses	1,011
Total	£ 12,051
Parliament—	
The Legislative Council—	
Railway passes	5,894
Other expenses	470
The Legislative Assembly—	
Allowances to Members	24,292
Railway passes	9,956
Other expenses	1,199
Miscellaneous—	
Salaries of Officers and Staff	26,293
Printing	6,978
Hansard	4,666
Library	702
Refreshment Rooms	412
Water, power, light, and heat	731
Postage and stationery	1,665
Fees and expenses of Parliamentary Standing Committee on Public Works.	3,978
Miscellaneous	1,295
Total	£ 88,531
Electoral Offices—	
Salaries of Officers and Staff	1,809
Other expenses	2,835
Total	£ 4,644
Cost of elections (1908-09)	Nil.
Royal Commissions and Select Committees—	
Fees of Members	1,260
Other expenses of Members	1,203
Miscellaneous	6,393
Total	£ 8,856
GRAND TOTAL	£ 123,258

The cost of the Legislative Chambers was £88,531, or 72 per cent. of the total amount expended on Parliamentary Government during the year, which was £123,258, or 1s. 6d. per head of population. This amount should be increased by about £13,000; that is, one-third of the cost of the last elections, held in 1907, which amounted to £38,863.

THE COMMONWEALTH.

The question of establishing a Federal Legislature, to deal with the common interests of the colonies, received attention when arrangements were being made for the separation of Victoria from New South Wales and for the self-government of the Australian Colonies upwards of sixty years ago. No direct result was obtained, but the idea was revived from time to time by various conferences and Parliamentary committees. The first practical and definite step towards federation was taken in 1890, when a conference of representatives from the seven Australasian colonies was held in Melbourne, and arrangements were made for a Federal Convention of members appointed by the various Parliaments to draft an adequate scheme for a Federal Constitution. The Draft Bill produced by this Convention in 1891 was intended for discussion in the State Parliaments, but it lapsed on account of the lack of enthusiasm on the part of the people. During the financial and commercial depression of the following years the necessity for federation was severely felt, and the movement became more popular. Another conference was held in Hobart in 1895, and as a result a Constitution was drawn up by elected representatives of New South Wales, Victoria, South Australia, Western Australia, and Tasmania, and submitted to the electors by means of a referendum in 1898. The Bill was accepted in Victoria, South Australia, and Tasmania; in New South Wales the majority of votes secured was insufficient; and in Western Australia the referendum was deferred, as the Enabling Bill of that State made the acceptance of the Constitution by New South Wales a necessary condition.

The Constitution Bill was amended at a conference in 1899, and was subsequently accepted by each of the six States of Australia, and the formal inauguration of the Commonwealth took place on the 1st January, 1901, the first day of the twentieth century.

In the Commonwealth Legislature the Crown is represented by the Governor-General of Australia, and there are two elective Chambers—the Senate and the House of Representatives.

The Senate consists of thirty-six members, six of whom are elected by each State voting as one electorate. The term of service of a Senator is six years; but, in accordance with the Constitution Act, the seats of half the number chosen at an election of a new Senate become vacant at the expiration of three years. An election is held triennially to fill the vacancies then occurring by effluxion of time.

The Constitution provides that the House of Representatives shall, as far as practicable, contain twice as many members as the Senate, the number chosen by the several States being in proportion to the respective numbers of their people; as it is also provided that no State shall be represented by less than five, there are now seventy-five members in this House. At the first and second elections New South Wales was represented by twenty-six members, but the number has since been increased by one.

The House of Representatives is liable to dissolution at the Governor-General's discretion if the Ministry loses its majority, otherwise it exists for three years. In the event of the failure of the Senate and House of Representatives to agree on the subject of any proposed law the Governor-General may dissolve both Chambers simultaneously.

Under the Commonwealth of Australia Constitution Act the Federal Parliament is empowered to make laws for various matters affecting the general welfare of the States, the principal being trade, taxation, bounties, borrowing, postal services, defence, statistics, currency, banking, pensions, external affairs, migration, and railways.

The qualifications of members and electors are the same for both Houses. Members must be adult British subjects, natural-born or naturalised for five years, eligible to vote, and resident in Australia for three years. Members receive remuneration at the rate of £600 per annum, and the seat of any member becomes vacant if he is absent without leave for two consecutive sessions.

Adult British subjects are allowed to vote who have lived in the Commonwealth for six months prior to the election. Aboriginal natives of Australia, Asiatics, Africans, and Pacific Islanders are disqualified unless entitled to vote at the election of the State Legislative Assembly.

The following table shows the votes polled at the elections of Senators in New South Wales:—

Election.		Electors Enrolled.		Electors to whom Ballot Papers were issued.		Informal Ballot Papers.	Percentage of Voters to Electors Enrolled.		
Year.	No.	Males.	Females.	Males.	Females.		Males.	Females.	Total.
1901	1st	329,093	.....	220,573	.....	38,674	67·02	.....	67·02
1903	2nd	360,285	326,764	189,877	134,487	15,796	52·70	41·16	47·21
1906	3rd	392,077	345,522	229,654	151,682	28,016	58·57	43·90	51·70
1910	4th	444,289	390,393	301,167	211,635	24,213	67·79	54·21	61·44

The votes recorded in New South Wales at the elections of members of the House of Representatives were as follows:—

Election.		Electors Enrolled. (Contested Divisions.)		Electors to whom Ballot Papers were issued.		Informal Ballot Papers.	Percentage of Voters to Electors enrolled.		
Year.	No.	Males.	Females.	Males.	Females.		Males.	Females.	Total.
1901	1st	315,962	.....	215,105	.....	4,070	68·08	.....	68·08
1903	2nd	303,254	274,763	164,133	118,381	7,834	54·12	43·08	48·88
1906	3rd	363,723	314,777	216,150	141,227	11,705	59·43	44·87	25·67
1910	4th	431,702	379,927	294,049	207,868	8,002	68·11	54·71	61·84

Although there was an increase in the percentage of voters at the last election, a very large proportion of the people enrolled—one-third of the men and nearly half the women—failed to exercise their franchise.

The following statement shows the representation of the people at the latest election in the Lower Legislative Chamber of the Commonwealth and of each State, in comparison with various other countries:—

Country.	Representatives in Lower Legislative Chamber.	Average Population per Representative.	Electors Enrolled per cent. of Population.
Commonwealth of Australia (Federal Parliament)	75	58,700	51·4
New South Wales (State Parliament)	90	17,500	47·4
Victoria	65	19,600	20·7
Queensland	72	7,600	40·3
South Australia	42	9,700	46·9
Western Australia	50	5,400	50·2
Tasmania	35	5,300	47·9
New Zealand	76	12,600	55·9
England and Wales	495	71,400	17·1
Scotland	72	67,000	15·8
Ireland	103	42,400	15·9
Total, United Kingdom	670	66,500	16·9
Cape Colony	107	23,400	6·1
Natal	43	27,100	2·0
Transvaal	69	17,800	8·6
Orange River Colony	38	11,800	8·1
Canada (Federal Parliament)	214	33,600	.....
Belgium	166	43,200	22·7
France	584	66,700	27·9
German Empire (Federal Parliament)	397	156,400	21·5
Netherlands	100	56,700	13·3
Norway	123	18,800	20·3

The liberal franchise of the Australian States and of New Zealand is without parallel in any other country. Universal adult suffrage now prevails in all the States, as, in Victoria, an Act to enfranchise women was passed subsequent to the last State election.

In the population of the South African colonies large numbers of coloured persons are included, of whom only a very small proportion are allowed to vote.

In Belgium supplementary votes are given to citizens over 35 years of age having legitimate issue and to electors of higher education. Failure to vote is punishable by law.

THE SECOND BALLOT ACT.

The Parliamentary Elections (Second Ballot) Act, passed in 1910, provides that a candidate shall not be deemed to be elected as a member of the State Legislative Assembly unless he has received an absolute majority, that is, more than half the number of valid votes recorded. If, as the result of the first ballot, a candidate has not received an absolute majority a second ballot must be taken between the two candidates for whom the highest number of votes has been given. This principle will be introduced at the next election in October, 1910.

POPULATION.

IN the days of early settlement in New South Wales it was necessary to enumerate the people at frequent intervals on account of their dependency on the public stores. Information regarding the population from the foundation of the colony in 1788 until the first census in 1828 depends on the records of these enumerations or "musters." The records were not always reliable, as the musters were often carried out under faulty conditions.

When Governor Phillip founded the colony in 1788 he landed about 1,030 persons. The growth of the colony for many years was very slow, and the population was diminished in 1803 by the formation of a settlement at Van Diemen's Land, now known as the colony of Tasmania. The following table shows, as nearly as can be ascertained, the probable population of New South Wales, including Norfolk Island, at quinquennial intervals from the end of the year 1790 until the year 1828, when the first Australian Census was taken:—

Year.	Total Population.
1790	2,800
1795	4,500
1800	6,200
1805	7,400
1810	10,100
1815	13,300
1820	25,300
1825	33,500

Only the totals are given, since for the period of the "musters" very scanty details are available, the sexes of the children being unstated.

The first census was taken in the year 1828 under the authority of an Act passed by the Governor and Council on 30th June of that year.

The enumeration was made during the month of November, the result showing a total of 36,598 persons, of whom 27,611 were males and 8,987 females, the remarkable disparity of approximately 3 to 1 exhibiting a most unwholesome preponderance of the male sex.

The slow growth during the 40 years to which the previous figures relate was followed by a rapid increase in population, induced by the steady development which resulted from the progressive public policy inaugurated during the governorship of Sir Richard Bourke. A system of immigration was introduced on a scale of annually increasing dimensions, which appeared in definite strength in the year 1832, so that at the end of 1833 the population had increased to 61,000, being an advance of 27,500 on the number for the year 1825, or at the rate of 82 per cent. for the period of eight years.

The population at each census from 1828 to 1856, the date of the establishment of Responsible Government, was as follows:—

Date of Census.	Males.	Females.	Total.	Increase.	
				Numerical.	Centesimal.
— Nov. 1828	27,611	8,987	36,598	.....	...
2 Sept. 1833	44,644	16,150	60,794	24,196	66.1
2 Sept. 1836	55,539	21,557	77,096	16,302	26.8
2 Mar. 1841	87,298	43,558	130,856	53,760	69.7
2 Mar. 1846	114,769	74,840	189,609	58,753	44.9
1 Mar. 1851	.....	.....	268,344	78,735	41.5
	Incl. Vic.				
	Excl. Vic.				
1 Mar. 1856	109,643	81,356	190,999	.....	.....
	150,488	119,234	269,722	78,723	41.2

The discoveries of the explorers during the early period had opened vast areas of inland country to pastoral and agricultural occupation, and the system of assisted immigration, inaugurated in 1832, was energetically carried out. With the rapid expansion of settlement a great demand for labour was created, and the high rates of wages attracted a large influx of unassisted immigrants. The most powerful factor in promoting the development of Australia, however, was the discovery of rich gold fields in 1851.

The colony of Victoria was founded in July, 1851, by the separation of the Settlement of Port Phillip, with a population of 77,345, from New South Wales. For the purposes of comparison the population at the census of 1851 has been shown in the above table, both inclusive and exclusive of Victoria.

After the year 1856 there was yet another reduction in the territory of New South Wales, before the area of the mother colony became confined to its present boundaries. This occurred in 1859, when the colony of Queensland, with a population of 16,907, was separated from New South Wales.

The first census taken after New South Wales was restricted to its present limits was on the 7th April, 1861, when the ascertained population was 350,860. Thereafter the numbers were determined decennially, the last census having been taken on the 31st March, 1901, when the population had increased to 1,359,133. The population at each census period from 1861 to 1901 will be seen below, and, in addition, the estimated population as at the 31st December, 1909, is shown. Aboriginal natives are included, except for 1861, when they were not enumerated. Their number, which in 1901 was 4,287 (2,451 males and 1,836 females), is assumed to remain constant during the intercensal periods.

Year.	Males.	Females.	Total.	Numerical Increase.
1861	198,488	152,372	350,860	.....
1871	275,551	228,430	503,981	153,121
1881	411,149	340,319	751,468	247,487
1891	612,562	519,672	1,132,234	380,766
1901	712,456	646,677	1,359,133	226,899
1909	883,357	762,087	1,645,444	286,311

The relative increase from census to census, and to the end of 1909, may be measured according to the several methods shown in the following statement. In the first column, the population in 1861 is taken as a basis:—

Year.	Index Number of Population.	Total increase for each period.	Increase per annum for period.	Persons per square mile.
		per cent.	per cent.	
1861	100	.....	.....	1·12
1871	144	43·64	3·69	1·61
1881	214	49·11	4·08	2·41
1891	323	50·67	4·19	3·64
1901	387	20·04	1·84	4·38
1909	469	21·07	2·21	5·30

The population has increased more than fourfold since 1861, and has more than doubled since 1881, but there has been a great falling-off in the rate of increase since 1891. Prior to that year the annual increase was about 4 per cent., but thence onward to 1904 it was under 2 per cent. Since 1904 the rate of increase has advanced, and was, in 1907, higher than at any time since 1891. In 1861 the number of persons per square mile was 1.1, in 1891 it was 3.6, and in 1909 it was 5.3.

Reliable estimates of the population are required during the intercensal periods for many purposes affecting the welfare of the community. Apart from the statistical value as the standard by which other statistics are measured, the population is used as the basis of important political and financial arrangements between the Commonwealth and the States, for instance, the distribution amongst the States of the representation in the Federal parliament.

The elements of increase of the population are the excess of births over deaths, which is termed "natural increase," and the excess of immigration over emigration. The registers of births and deaths ensure a reliable return of the natural increase, but it is unfortunate that the records of arrivals and departures are defective, as in a young and progressive country as New South Wales, the element of migration is extremely variable.

Experience shows that, while the records of overland migration are by no means perfect, they give with fair accuracy the gain or loss to the State across its borders. In the case of the sea traffic, however, the returns are less reliable, as there are persons who go on board vessels after the passenger list has been completed, and whose departure is not recorded. A conference of Australian Statisticians, held in 1906, agreed upon a method of estimating the population as follows :—

That the Census of 1901 be taken as the starting point, and the future estimates of population be published from that basis.

That the Registrar-Generals' returns of Births and Deaths, and the Customs and Railway Departments' Certificates of arrivals and departures be accepted for the compilations.

That ten per cent. be added to the railway returns of arrivals and departures by land for New South Wales, Victoria, Queensland and South Australia to allow for unrecorded traffic by rail and road.

That the following percentages on recorded departures by sea be added thereto for the unrecorded departures :—New South Wales, 9 ; Victoria, 9 ; Queensland, 10 ; South Australia, 7 ; Western Australia, 5 ; and Tasmania, 12.5.

That the elements of population be published quarterly on a uniform basis.

That where the distribution of sexes of persons travelling overland is unknown the proportion of males and females be fixed on the basis of the recorded sea traffic for the corresponding period.

That full-blooded aborigines be excluded from the populations, but shown on a separate line in the estimates of population.

That henceforth the mean population of each of the four quarters be taken, and the mean of these be accepted as the mean of the year.

That seamen discharged, or having deserted, and all seamen signing on, be taken into account as arrivals and departures respectively.

The estimated population at the end of each year since 1900 is as follows :—

Year.	Estimated Population at end of Year.			Annual Increase.	
	Males.	Females.	Total.	Numerical.	Per cent.
1900	718,995	645,595	1,364,590	20,510	1·53
1901	723,494	656,033	1,379,527	14,937	1·09
1902	741,234	666,385	1,407,619	28,092	2·04
1903	755,078	676,533	1,431,611	23,992	1·70
1904	773,699	687,850	1,461,549	29,938	2·09
1905	795,133	700,874	1,496,007	34,458	2·36
1906	816,590	714,394	1,530,984	34,977	2·34
1907	841,391	731,833	1,573,224	42,240	2·76
1908	859,402	745,607	1,605,009	31,785	2·02
1909	883,357	762,087	1,645,444	40,435	2·52

The following statement shows the extent to which the growth of the population is due to each source during the census periods from 1861, and in each year since 1901 :—

Period.	Increase.			Increase per annum.		
	By excess of Births over Deaths.	By excess of Immigration over Emigration.	Total Increase.	By excess of Births over Deaths.	By excess of Immigration.	Total.
1861-71	106,077	47,044	153,121	per cent. 2·68	per cent. 1·27	per cent. 3·69
1871-81	140,382	107,105	247,487	2·49	1·95	4·08
1881-91	211,301	169,465	380,766	2·51	2·05	4·19
1891-1901	226,676	223	226,899	1·84	...	1·84
1901, from 1st April	16,338	4,056	20,394	1·60	0·40	2·00
1902	21,189	6,903	28,092	1·54	0·50	2·04
1903... ..	19,469	4,523	23,992	1·38	0·32	1·70
1904... ..	23,307	6,631	29,938	1·63	0·46	2·09
1905... ..	24,523	9,935	34,458	1·68	0·68	2·36
1906... ..	25,973	9,004	34,977	1·74	0·60	2·34
1907... ..	25,785	16,455	42,240	1·68	1·07	2·76
1908... ..	26,435	5,350	31,785	1·68	0·34	2·02
1909... ..	27,929	12,506	40,435	1·74	0·78	2·52
1901-1909	210,948	75,363	286,311	1·66	0·64	2·21

The rate of natural increase has fallen steadily throughout each period, and reached its lowest point in 1903, when it was only half the average annual rate during the period 1861-71. The fall was caused by the declining birth rate, as the death rate has shown constant improvement. During the last six years, however, the rate has risen, the excess of births in 1909 being the highest yet recorded.

The migration increase advanced steadily during each intercensal period up to 1891. During the decade 1861-1871, after the excitement of the gold discoveries had abated, a reaction set in, and public interest was again directed to the pastoral and agricultural industries. The policy of encouragement and assistance to immigrants was continued, and the Crown Lands were thrown open to free selection. During the following periods, the construction of railways and other public works increased the demand for labour; consequently, many persons were attracted to the State by the ease with

which employment could be obtained and by the high rate of wages, notwithstanding that State-aided immigration practically ceased in 1886. Towards the end of this period, expenditure, both State and private, was suddenly curtailed, and there was a scarcity of employment and consequent check to immigration. The year 1891 saw the end of immigration, and for the next decade the population progressed only by reason of the natural increase, as the excess of arrivals was but 223. The balance of migration was, moreover, affected by the rush of men to Western Australia after the discovery of gold in 1894, and by the departure of over 5,000 troops to the war in South Africa, from 1899 to 1901. Most of the latter have since returned, as well as many of those in the former category, and since the last census there has been a decided improvement.

The next table shows the arrivals in, and departures from, the State by sea and by land during the last ten years, proper allowance being made for those unrecorded :—

Year.	Arrivals.			Departures.		
	By Sea.	By Land.	Total.	By Sea.	By Land.	Total.
1900	68,783	82,530	151,313	67,190	85,641	152,831
1901	76,139	87,474	163,613	69,500	101,030	170,530
1902	81,191	79,459	160,650	67,400	86,347	153,747
1903	70,570	81,773	152,343	63,632	84,188	147,820
1904	72,978	83,284	156,262	63,588	86,043	149,631
1905	74,170	98,134	172,304	63,682	98,687	162,369
1906	79,465	113,871	193,336	68,792	115,540	184,332
1907	101,125	140,214	241,339	81,886	142,998	224,884
1908	101,589	144,152	245,741	88,683	151,708	240,391
1909	106,310	141,497	247,807	88,145	147,156	235,301

There is a very large movement of population each year, but it can hardly be described as immigration or emigration in the popular sense in which those terms are used, and is largely due to the arrival and departure of tourists and business men. Of the total movement, 83 per cent. is with the other Australian States, and nearly one-half of the movement with countries outside Australia is with New Zealand.

The net gain of population from various countries during the last ten years is shown in the following table :—

Year.	Other Australian States.	New Zealand.	United Kingdom.	China, India.	Other British Possessions.	Foreign Countries.	Total.
1900	(—) 12	293	(—) 941	321	(—) 1,349	170	(—) 1,518
1901	(—) 10,000	1,547	(—) 642	(—) 99	(—) 731	3,008	(—) 6,917
1902	3,563	358	(—) 1,092	(—) 51	(—) 306	4,431	6,903
1903	5,199	(—) 336	(—) 887	(—) 252	(—) 1,980	2,779	4,523
1904	4,263	1,532	(—) 995	(—) 137	(—) 808	2,776	6,631
1905	6,992	2,783	(—) 642	22	(—) 788	1,568	9,935
1906	7,166	1,073	1,014	(—) 436	(—) 683	870	9,004
1907	7,195	1,430	5,199	(—) 456	1,901	1,186	16,455
1908	(—) 2,564	690	4,183	(—) 227	1,976	1,292	5,350
1909	(—) 5,130	7,285	9,072	195	(—) 691	1,775	12,506

(—) Signifies Loss.

The excess of arrivals from countries outside the Commonwealth during 1909 was 17,636, the largest excess during the last ten years. The excess of arrivals from New Zealand amounted to 7,285, and there was a gain of 211 persons from Canada.

The most remarkable feature shown by the above table is the change in the movement of population with the United Kingdom. In the first six years of the decennium there was a substantial loss of population to that country, but since 1906 there has been a steadily increasing excess of arrivals, amounting in 1909 to 9,072. This is due to the revival of the assisted immigration policy in 1905. Recognising the need of a much more rapid increase in population, in order to develop the vast resources and latent wealth of the country and to provide adequate defence, the State Government has made arrangements for the systematic advertisement throughout the United Kingdom of the advantages which this State offers to immigrants. The cost to suitable immigrants of the voyage to Australia is lessened by Government contributions, and specially reduced fares from the United Kingdom and other European countries. Residents of New South Wales may also arrange by nomination assisted passages for relatives and friends desirous of settling in this State.

Under an agreement with the States, the Federal Government now co-operates in the encouragement of immigration by undertaking the advertisement of the resources of the whole of Australia, and the selection of the immigrants is left to the representatives of the individual States, who also arrange the assisted passages.

The number of persons assisted to immigrate is shown hereunder :—

Year.	Total Assisted Immigrants.	Nominated by Relatives or Friends in State (included in preceding).
1906	681	114
1907	2,845	490
1908	2,896	1,277
1909	4,308	1,979

Legislative measures to restrict the influx of coloured aliens were passed in New South Wales in the early days of self government. Public feeling was first aroused by the entry of large numbers of Chinese into the Colony, and the enactments imposed limitations only on the immigration of this race. Between the Census years 1881-1891 the number of Chinese in the State began to diminish on account of the exclusion laws and of the rich gold discoveries in other States. At the Census of 1901 there were 11,263 Chinese, including half-castes, in New South Wales. The following statement of Chinese migration since 1901 shows in each year an excess of departures :—

Year.	Arrivals.	Departures.	Excess of Departures over Arrivals.
1901	71	342	271
1902	56	425	369
1903	62	676	614
1904	176	702	526
1905	392	948	556
1906	364	818	454
1907	375	928	553
1908	497	883	386
1909	562	900	338

At the establishment of the Commonwealth the control of the conditions relating to immigration passed into the hands of the Federal Parliament. The Federal legislation relating to immigration restriction does not aim at

the exclusion of the people of any particular race or colour, but of undesirable immigrants generally. Under its provisions no person is allowed to land who fails to pass a dictation test in any European language required by the Customs' officers. This test has not been applied to any desirable immigrant of European nationality. Paupers, criminals, lunatics, and other persons likely to be source of danger to public health or morals are excluded.

Provision is made also to prevent the immigration of labourers under contract to perform manual labour if their arrival has any connection with an industrial dispute or if the contract rate of wages is less than that current in the district where the work is to be performed.

During the seven years the Act has been in force, 1,359 persons have been refused admittance.

In 1901 the Federal Government also passed an Act to prohibit the introduction of native labourers from the Pacific Islands. These labourers were employed in the sugar plantations, for the greater part in Queensland, but also in smaller numbers in the north coastal districts of New South Wales. Under this Act all agreements with the Islanders were terminated at the end of the year 1906, and arrangements were made by the Government for their deportation.

The following statement gives the population, exclusive of full-blooded aborigines, of each State of the Commonwealth at the last census and at the 31st December, 1909, and the average annual rate of increase in comparison with the figures for other countries:—

Country.	Population.		Interval since Census.	Average Annual Rate of Increase since Census.
	Census.	At Latest Estimate.		
			years.	per cent.
New South Wales ...	1,354,846	1,641,157	8 $\frac{1}{2}$	2·22
Victoria	1,201,070	1,297,557	8 $\frac{1}{2}$	0·89
Queensland... ..	498,129	578,548	8 $\frac{1}{2}$	1·73
South Australia ...	362,604	416,047	8 $\frac{1}{2}$	1·59
Western Australia ...	184,124	276,743	8 $\frac{1}{2}$	4·78
Tasmania	172,475	186,860	8 $\frac{1}{2}$	0·92
Commonwealth ...	3,773,248	4,396,912	8 $\frac{1}{2}$	1·77
New Zealand	772,719	982,926	8 $\frac{1}{2}$	2·79
England and Wales ...	32,527,843	35,756,615	8 $\frac{1}{2}$	1·15
Scotland	4,472,103	4,877,648	8 $\frac{1}{2}$	1·06
Ireland	4,458,775	4,374,158	8 $\frac{1}{2}$	(—) 0·23
Canada	5,371,315	7,184,000	8	3·70
Austria-Hungary ...	45,405,267	49,248,000	8	1·03
Belgium	6,693,548	7,386,400	8	1·24
Denmark	2,449,540	2,659,000	7 $\frac{1}{2}$	1·11
France	38,961,945	39,267,000	7 $\frac{1}{2}$	0·10
Germany	56,367,178	62,982,000	7 $\frac{1}{2}$	1·47
Italy	32,475,253	33,911,000	7 $\frac{1}{2}$	0·51
Netherlands	5,104,137	5,829,000	9	1·49
Sweden	5,136,441	5,430,000	8	0·70
Switzerland	3,315,443	3,555,000	7 $\frac{1}{2}$	0·92
United States	76,303,387	87,189,000	8	1·68
Argentine Republic ...	5,106,378	5,546,000	*6	*3·07

*The Census was taken in 1905, but the increase has been calculated for last six years.

The average annual increase of New South Wales since the census is exceeded by Western Australia, Canada, Argentine Republic, and New Zealand.

POPULATION.

SEX DISTRIBUTION.

The number of males in New South Wales has always exceeded the number of females. In the early days the disparity was very marked, but there has been a gradual tendency towards an equal sex distribution. The preponderance of males is due to immigration, as the natural increase of females is the higher. The distribution of the sexes at each census since 1861 and at the end of 1909 was as follows:—

Year.	Proportion of Males.	Proportion of Females.	Males per 100 Females.
	per cent.	per cent.	No.
1861	56·57	43·43	130
1871	54·67	45·33	121
1881	54·86	45·14	121
1891	54·14	45·86	118
1901	52·42	47·58	110
1909	53·68	46·32	116

From 1871 to 1881 the proportion of males remained constant at about 55 per cent., but immigration was checked towards the end of the next decade, and in 1891 the proportion of males had decreased slightly. During the following period there was very little immigration and in 1901 the difference between the sexes had become less than at any previous period, the proportion of males being 52·42 per cent. or 110 males to every 100 females. Since 1901, however, the percentage of males has risen, owing to increased immigration, and the proportions in 1909 were 53·68 males and 46·32 females, or 116 males to every 100 females.

URBAN AND RURAL POPULATION.

To those who are unacquainted with the conditions of Australian progress, the figures relating to the distribution of population in New South Wales will appear somewhat remarkable. The population living in the Metropolitan area is considerably larger than that in all the other towns of the State in combination, and is also greater than the whole of the rural population. At the Census of 1901, 35·8 per cent. of the settled inhabitants of New South Wales resided in the metropolis, 32·8 per cent. in the other urban districts, and 31·4 per cent. in the rural districts. The following statement shows the distribution of the population on the 31st March, 1901:—

In the Metropolitan area...	...	...	...	481,830	35·8
In Newcastle and Suburbs	...	...	...	53,741	} 32·8
In 11 towns with population of 5,000 and under 20,000	...	...	...	98,889	
In 42 " " " 2,000 " 5,000	...	...	...	125,683	
In 62 " " " 1,000 " 2,000	...	...	...	91,359	
In 106 " " " 500 " 1,000	...	...	...	72,771	
Total Urban Population	...	...	...	924,273	68·6
Rural Population	...	...	...	422,447	31·4
Total (urban and rural)	...	...	...	1,346,720	100·0
Shipping	...	...	...	8,026	
Aborigines	...	...	...	4,287	
Lord Howe Island...	...	...	...	100	
Total Population, New South Wales	...	...	...	1,359,133	

During the ten years from 1891 to 1901, while the rural population increased by 34,216, (or 8·8 per cent.) the urban population increased by 194,254 (or 26·6 per cent.), and of the latter 98,547 were in the metropolitan

district. It would therefore appear, judging by ratio of increase, that the urban population is increasing three times as rapidly as the rural. Thirty years ago, out of every 1,000 persons living in New South Wales, 532 were in the rural districts of the State, but the proportion is now only 314, and this anomaly exists although every possible inducement has been offered to persons to settle away from the towns. The following table shows the urban as distinct from the rural population at each census from 1861 to 1901 :—

	1861.	1871.	1881.	1891.	1901.
Sydney and Suburbs &c	95,789	137,586	224,939	383,233	481,830
Other Towns	64,045	97,037	201,731	346,736	442,443
Total Urban	159,834	234,623	426,670	730,019	924,273
„ Rural	189,116	266,956	321,571	388,231	422,447
Total	348,950	501,579	748,241	1,118,250	1,346,720

The total population shown here is exclusive of shipping and aborigines. These figures indicate that at some period between 1871 and 1881 the urban population, which had previously been smaller than, became equal to, the population living in the rural districts. The year when this event occurred was probably 1875. Thenceforward the urban population grew far more rapidly, so that in 1901 it was found to exceed the rural by about 120 per cent. The progress of population will be best seen from the following table, which gives the respective proportions per cent. of the urban and rural population to the whole population of the State :—

	1861.	1871.	1881.	1891.	1901.
Sydney and Suburbs	27·45	27·43	30·06	34·27	35·78
Other Towns	18·35	19·35	27·00	31·01	32·85
Total Urban	45·80	46·78	57·06	65·28	68·63
„ Rural	54·20	53·22	42·94	34·72	31·37

The relation of these two sets of figures will, perhaps, be more clearly perceived by a presentation of the annual increase per cent. during each decade, of urban and rural population :—

	1861-71.	1871-81.	1881-91.	1891-1901.
Urban	3·92	6·16	5·51	2·39
Rural	3·50	1·88	1·91	0·85

As the normal rate of increase due to the excess of births over deaths during the period 1871 to 1881 was 2·32 per cent., from 1881 to 1891, 2·23 per cent., and from 1891 to 1901, 1·80 per cent., the figures in the above table show clearly that the rural districts of the State are not retaining, and have not retained for many years past, their natural increase of population, and that the towns have attracted not only immigrants to the State, but also some portion of the rural population. Various causes have conduced to this state of affairs. In England, France, and Germany, the abnormal growth of the urban population during the last thirty or forty years has been due largely to the increase in the manufacturing industries, which, necessarily, have been established in or near towns, have changed the occupations of the people, and have consequently attracted from the country young people in search of employment. Even in the United States, the most favoured country for the agricultural labourer, the same conditions exist, but in this case the rise of the great cities has been accompanied by an increase in the rural population.

In Australia, however, influences of a different kind are at work, and the growth of the metropolitan centres has been marked by special features. There can be no difficulty in understanding the growth of cities such as London, which are large trading centres. But in New South Wales, Sydney, which contains over 36 per cent. of the population, and whose commerce is the most valuable of the ports of Australia, can claim little trade which is not due to the productiveness of the State. There has been no abnormal increase of factories, yet, as previously indicated, the rural growth has been slower than the metropolitan.

The rapid growth of Sydney has been due mainly to the physical features of the coast line of New South Wales which render Port Jackson the only considerable commercial outlet. The coastal rivers are all short, and their estuaries do not present good roadsteads for shipping. The State had its beginning on the site whereon has grown the metropolis, and Sydney, being the chief port, has been of necessity the only channel through which immigrants from foreign lands could pass to the interior. Immigrants to Australia linger in their port of debarkation, and seldom care to leave it while employment is procurable.

In this connection the following table is of interest, as it shows where the persons of different nationalities in the State have settled, whether in the towns or in the country. The figures represent the approximate proportion per cent. of the total population residing in the urban and rural districts at the census of 1901 :—

District.	Nationality.			All persons.
	Australian.	British.	Foreign.	
Metropolis	33·40	47·21	44·43	35·78
Other Incorporated Towns..	27·74	26·23	24·85	27·64
Rural	38·86	26·56	30·72	36·58
Total	100·00	100·00	100·00	100·00

There is an apparent discrepancy between the proportions in the last table and in that on the preceding page. This is owing to the fact that in the last table only incorporated towns are included as "urban," whereas in the first table all towns with a population of 500 and over are included.

It will be seen that nearly half the British and foreign-born residents in the State are situated in the metropolis, and about three in every four in the urban districts collectively. Only one third of the Australian-born dwell in the metropolis, but it should be noted that 90 per cent. of the British and foreign-born are adults, as against 40 per cent. of the Australian-born.

The backward state of rural development in New South Wales is largely explained by the great attention which the pastoral industry has received. Wool-growing has been for many years the staple industry. The actual tending of the flocks needs few hands, while the handling of bales of wool at a convenient place of shipment demands all the resources of a great commercial centre. A consideration of the circumstances governing settlement thus makes it clear that, while areas of splendid country devoted to primary production are in the hands of a comparatively small population, the production from primary sources has been so valuable that it has been possible to support a relatively large number of people collected in the centres of secondary production and distribution. With the advent of the public policy of closer settlement which is now being developed in this State, there is every probability of a large modification in the relative figures of urban and rural population.

THE METROPOLIS.

The Metropolis includes Sydney and the forty municipalities which surround it, as well as the islands of Port Jackson, and embraces an area of nearly 149 square miles. The area included may be described roughly as a square bounded on the east by the sea coast, and on the south by the waters of Botany Bay and George's River; on the west by Hurstville, Canterbury, Enfield, Strathfield, Concord, and Ryde; on the north by Ryde, Eastwood, Willoughby, and Manly. The habitations within these limits are fairly continuous, with the exception of parts of Ryde and Canterbury. The following statement shows, at the Census of 1901, and on the 31st December, 1909, the population of each municipality of the metropolis:—

Municipality.	Population 31st Mar., 1901.	Population 31st Dec., 1909.	Municipality.	Population 31st Mar., 1901.	Population 31st Dec., 1909.
City of Sydney †...	126,138	126,700	Leichhardt ...	17,454	24,410
Alexandria ...	9,341	11,000	Manly ...	5,035	10,140
Annandale ...	8,349	10,670	Marrickville ...	18,775	27,100
Ashfield ...	14,329	19,970	Mosman ...	5,691	12,800
Balmain ...	30,076	30,380	Newtown ...	22,598	26,680
Bexley ...	3,079	5,940	North Sydney ...	22,040	31,600
Botany ...	3,383	4,250	Paddington ...	21,984	22,570
Botany, North ...	3,772	5,610	Petersham ...	15,307	20,110
Burwood ...	7,521	9,100	Randwick ...	9,753	15,980
Canterbury ...	4,226	9,680	Redfern ...	24,219	24,100
Concord ...	2,818	3,640	Rockdale ...	7,857	12,790
Darlington ...	3,784	3,400	Ryde ...	3,222	4,580
Drummoyne ...	4,244	8,020	St. Peter's ...	5,906	8,140
Eastwood ...	713	930	Strathfield ...	2,991	3,800
Enfield ...	2,497	3,270	Vaucluse ...	1,152	1,820
Ersleville ...	6,059	7,120	Waterloo ...	9,609	10,530
Glebe ...	19,220	20,650	Waverley ...	12,342	18,540
Homebush ...	*	550	Willoughby ...	6,004	11,630
Hunter's Hill ...	4,232	4,520	Woollahra ...	12,351	15,460
Hurstville... ..	4,019	7,050			
Kogarah ...	3,892	6,880			
Lane Cove ...	1,918	4,060	Total ...	487,900	605,900

* Included with Strathfield.

† Including Camperdown which was incorporated with the City on 1st January, 1909.

The population of the Metropolis is rather unevenly distributed. Half of the inhabitants are crowded into a little over 6,000 acres, having a density from 25 to 100 per acre, while one-third occupy about 18,000 acres with an average density of 9, and the remainder are scattered over about 67,000 acres, and have a density of a little over 1 per acre.

COUNTRY DISTRICTS.

Round the Metropolitan districts settlement at first followed the main roads, but with the establishment of the railway, the population settled within reach of the railway lines. In the coastal area, where the bulk of the people dwell, the development of the towns has more than kept pace with the general population. Thus, in the Valley of the Hunter, with its large agricultural and mining industries, population has made rapid strides. Newcastle and suburbs, for instance, increased from 7,810 in 1861, to 54,991 in 1901, and 65,500 in 1909. The Illawarra district, rich in coal and pasture, and the dairy, maize, and sugar-growing districts of the Clarence and Richmond Rivers have also increased largely in their urban population.

The next statement shows, at the Census of 1901, and at the 31st December, 1909, the populations of the principal country municipalities of New South Wales :—

Municipality.	Population.		Municipality.	Population.	
	Census, 1901.	31st Dec., 1909.		Census, 1901.	31st Dec., 1909.
Albury	5,821	7,000	Lismore	4,378	7,250
Armidale	4,249	5,200	Lithgow	5,268	8,260
Bathurst	9,223	9,750	Liverpool	3,901	5,100
Bourke	2,609	1,900	Maitland, East and West ..	10,073	12,200
Broken Hill	27,500	31,000	Mudgee (including Cudjegang)	5,774	6,250
Casino	1,926	3,750	Narrabri and West Narrabri..	2,963	3,300
Cobar	3,371	5,000	Newcastle and Suburbs ..	54,991	65,500
Cootamundra	2,424	2,800	Orange and East Orange ..	6,331	7,350
Cowra	1,811	3,290	Parkes	3,181	3,860
Deniliquin	2,644	2,860	Parramatta	12,560	13,600
Dubbo	3,409	4,600	Penrith	3,539	4,400
Forbes	4,294	4,900	Singleton	2,872	3,100
Glen Innes	2,918	4,100	Tamworth	5,799	7,250
Goulburn	10,612	10,800	Tenterfield	2,604	3,000
Grafton and South Grafton..	5,147	6,800	Wagga Wagga	5,108	6,300
Granville	5,094	8,000	Wellington	2,984	5,000
Hay	3,012	2,800	Windsor	2,039	4,250
Inverell	3,293	4,700	Wollongong	3,545	4,400
Katoomba	2,270	3,800	Yass	2,220	2,500
Kempsey	2,329	2,750	Young	2,755	3,100

None of these municipalities is densely populated, the most closely inhabited having only a little over 6 persons per acre. The largest is Cudjegang, with an area of 122,880 acres, and the smallest Singleton, with 621 acres.

The population of the State contained in the metropolitan and country municipalities, the Shires and the unincorporated part of the Western Division as at 31st December, 1909, is shown in the following table; also the density in each division as represented by the average population per square mile.

Division.	Area	Population.	Population per Square Mile.
	sq. miles.		
Sydney	5	126,700	25,340·0
Suburbs	144	479,200	3,327·8
Metropolis	149	605,900	4,066·4
Country Municipalities	2,848	456,280	160·2
Shires	182,113	564,660	3·1
Western Division (Part unincorporated) ..	125,257	18,504	·1
Lord Howe Island	5	100	20·0
Total New South Wales	310,372	1,645,444	5·3

The population of the chief cities of Australasia in comparison with the important towns of the world is shown hereunder:—

City.	Population.		Interval since Census.	Average Annual Rate of Increase since Census.
	Census.	Latest Estimate.		
Sydney	487,900	605,900	8 $\frac{3}{4}$	2.51
Melbourne	496,079	562,300	8 $\frac{3}{4}$	1.14
Brisbane	119,428	143,077	8 $\frac{3}{4}$	2.09
Adelaide	162,094	184,393	8 $\frac{3}{4}$	1.48
Perth	36,274	54,354	8 $\frac{3}{4}$	4.73
Hobart	34,604	38,916	8 $\frac{3}{4}$	1.45
Wellington (N.Z.)	49,344	76,390	8 $\frac{3}{4}$	5.12
London	6,581,372	7,323,327	8 $\frac{3}{4}$	1.30
Liverpool	684,958	760,357	8 $\frac{3}{4}$	1.27
Manchester	543,872	655,435	8 $\frac{3}{4}$	2.19
Edinburgh	316,837	355,366	8 $\frac{3}{4}$	1.40
Glasgow	761,709	872,021	8 $\frac{3}{4}$	1.65
Dublin	349,180	386,576	8 $\frac{3}{4}$	1.24
Calcutta	847,796	1,014,438	8 $\frac{3}{4}$	2.19
Bombay	776,006	982,000	8 $\frac{3}{4}$	2.89
Madras	509,346	548,974	8 $\frac{3}{4}$	0.91
Montreal	355,540	476,334	8	3.72
Toronto	217,547	323,602	8	5.09
Singapore	228,550	271,061	7	2.47
Victoria (Hong Kong)	210,447	224,770	7	1.13
Paris	2,714,068	2,747,600	7 $\frac{3}{4}$	0.06
Brussels	561,766	629,917	7	1.65
Amsterdam	511,000	565,656	8	1.28
Copenhagen	476,806	564,186	7	2.43
Stockholm	301,000	339,000	8	1.50
St. Petersburg	1,265,000	1,550,000	11	1.86
Moscow	1,039,000	1,411,900	11	2.83
Berlin	1,888,800	2,102,727	8	1.35
Hamburg	705,700	866,330	8	2.60
Vienna	1,674,957	2,021,052	8	2.37
Buda-Pest	732,322	812,728	8	1.31
New York	3,437,202	4,338,322	8	2.95
Chicago	1,698,575	2,166,055	8	3.29
Philadelphia	1,293,697	1,491,082	8	1.79
Boston	560,892	616,072	8	1.29
Rio de Janeiro	750,000	856,000	7	1.90
Buenos Ayres	950,891	1,189,180	4	5.75

As regards population, Sydney is exceeded in the British Empire by only six other cities.

ABORIGINES.

The aborigines of Australia form a distinct race, and it may be presumed that the whole of them throughout the continent sprang from the same stock, although it is remarkable that their languages differ so greatly that tribes in close proximity are quite unable to understand each other, and almost every large community of natives has its own peculiar dialect. It is difficult to form a correct estimate of the numbers of the aborigines; but while there is reason to believe that formerly they were very numerous, there is evidence that of late years they have been decreasing greatly.

Governor Phillip estimated the aboriginal population, about the year 1800, at one million, of whom about 3,000 lived between Broken Bay and Botany Bay. Although the latter estimate (3,000) was very likely correct, the quotation for the whole territory, being based on the supposition that the natural resources of the continent were as great as those of the land under his notice, was no doubt exaggerated.

The aborigines were never properly counted until the census of 1891, when they were classed as full-blood and half-caste. In 1901 only the full-blood and nomadic half-caste were counted. According to the Commonwealth Constitution Act, in reckoning the quota to determine the number of members to which the State is entitled in the House of Representatives, aboriginal natives of Australia are not counted. It has been decided that only full-bloods are aborigines within the meaning of the Act, and, consequently, in 1901 half-castes were included in the general population. In 1861 aborigines were not enumerated at all; in 1871 and 1881 the wandering tribes were passed over, and only those who were civilised or in contact with Europeans were enumerated and included in the general population. The numbers included in the population at each census were :—

Census.	Males.	Females.	Total.
1871	709	274	983
1881	938	705	1,643
1891	4,559	3,721	8,280
1901	2,451	1,836	4,287

In 1891 the number of half-castes was 1,663 males and 1,520 females. In 1901 the number of both full-bloods and half-castes was 4,093 males and 3,341 females, and of these the number of nomads was 509—259 males and 250 females.

The aboriginal race is fast disappearing, the annual rate of decrease being between two and three per cent. At the census of 1891 only 5,097 were of full blood, and this number, in 1901, had fallen to 3,778, but the half-castes had slightly increased. It is possible that some, especially those least civilised, escaped enumeration.

The Board for the Protection of Aborigines has been constituted to safeguard the interests of the aboriginal population, and a number of reserves have been set apart throughout the State, where they are provided with dwellings and means of livelihood. The residents on these stations are encouraged, as far as practicable, by the supply of tools and seed, to farm the land to its best advantage, and the education of the children is conducted by duly qualified instructors. Under an Act passed in 1909 the control of the reserves is vested in the Board, and their powers of administration considerably amplified with a view of ameliorating the conditions of the race.

In 1909 the number of aborigines under the control of the Board was 7,370, of whom 2,123 were full-bloods, and 5,247 half-castes. In comparison with the return of the previous year, there was a decrease of 29 full-bloods, and an increase of 466 half-castes. The number of births reported during the year was 251—205 being half-castes—and the number of deaths, 199—102 half castes.

NATURALISATION.

Under the Commonwealth Naturalisation Act, which came into operation on the 1st January, 1904, any person is deemed to be naturalised who had, before the passing of the Act, obtained a certificate of naturalisation in any State. An applicant must make a statutory declaration giving his name, age, birth-place, occupation, residence, the length of his residence in Australia, and stating that he intends to settle in the Commonwealth; also a certificate signed by some competent person that the applicant is of good repute.

It is also enacted that any person resident in the Commonwealth, other than British subjects and aboriginal natives of Asia, Africa, or the islands of the Pacific, excepting New Zealand, who intends to settle in the Commonwealth, and who has resided in Australia continuously for two years immediately preceding the application, or who has obtained a certificate of naturalisation in the United Kingdom, may apply to be naturalised.

The Governor-General may in his discretion grant or withhold a certificate, and the certificate is issued when the applicant has taken the necessary oath of allegiance.

Any person to whom a certificate of naturalisation is granted is in the same position as a natural-born British subject, provided that where, by the provisions of any State Act, a distinction is made between the rights of natural-born British subjects and those naturalised in the State, the rights conferred by the Commonwealth Act are only those to which persons naturalised by the State Act would be entitled. Under the previously existent Act in New South Wales, aliens could hold both real and personal property, but were not eligible for any office, nor had they any rights or privileges except such as were expressly conferred upon them.

An alien woman who marries a British subject is deemed to be thereby naturalised. Any infant, not being a natural-born British subject, whose father has been naturalised, or whose mother is married to a natural-born British subject or to a naturalised person, and who has at any time resided in Australia with such father or mother, is also deemed to be naturalised.

On the whole, the conditions to be fulfilled under the Commonwealth Act do not differ greatly from those under the old State Act, but the term of residence necessary is now two years, whereas formerly it was five years. Under the Commonwealth Act, Asiatics, Africans, and Pacific Islanders are refused the rights of naturalisation; previously only the Chinese were so treated.

At the census of 1901 the number of naturalised foreigners was 3,619, viz., 3,265 males and 354 females. It is probable, however, that these numbers are under-stated. Germans have availed themselves most largely of the privileges of naturalisation, having taken out nearly one-half of the certificates granted.

The following table shows the nationalities of the persons naturalised in New South Wales during each of the last eight years :—

Nationality.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	Total to end of 1909.
German	108	109	412	170	154	163	140	217	5,292
Scandinavian	110	89	433	113	128	105	93	128	2,506
Russian	37	30	148	11	18	10	40	62	685
Italian	31	34	116	58	44	51	38	66	697
Other European	53	66	239	156	83	85	77	131	1,806
United States	6	3	26	10	20	16	8	24	238
China ... ..	...	...	...	...	...	...	...	...	908
Others	41	69	5	26	28	28	...	16	576
Total	386	400	1,379	544	475	458	396	644	12,708

VITAL STATISTICS.

MARRIAGES.

The number of marriages celebrated in New South Wales during 1909 was 13,048 corresponding to a rate of 8·03 per 1,000 of the population. The number is the highest on record, and the rate is the highest since 1886.

The following table shows the average annual number of marriages and the rates per 1,000 of the population during each quinquennium of the last forty years:—

Period.	Average Number of Marriages.	Rate per 1,000 of Population.	Period.	Average Number of Marriages.	Rate per 1,000 of Population.
1870-74	4,091	7·77	1900-04	10,240	7·33
1875-79	4,987	7·88	1905	10,970	7·42
1880-84	6,738	8·39	1906	11,551	7·63
1885-89	7,679	7·67	1907	12,189	7·84
1890-94	7,954	6·80	1908	12,642	7·96
1895-99	8,700	6·74	1909	13,048	8·03

Until the year 1891 the increase in the number of marriages celebrated was remarkably steady, very few checks being experienced, but in 1892 there was a sudden decline, which continued until 1895, when the figures again took an upward movement, but the proportion married per 1,000 of the population did not reach the 1891 level until 1900. In 1901 the rate was the highest since 1886, but in the next two years it again declined largely. Since 1903, however, there has been a constant improvement. The rate of improvement during the last five years discloses an advance of about 10 per cent. in the marriage rate.

A more exact method of stating the marriage rate is to compare the marriages with the number of marriageable males and females in the community, since the marriage rate is mainly a function of age. As stated elsewhere, however, it has not been considered advisable to make any estimates of the number living at various ages on account of the long interval since the last census. The marriage rate is an intimate reflex of the comparative prosperity of a country; also, a high marriage rate indicates a considerable proportion of marriageable persons in the community. From either point of view the augury in respect of New South Wales must be regarded as highly favourable.

The following statement shows the marriage rate per 1,000 of the population in each State of the Commonwealth, New Zealand, and in a number of European countries during the last six years:—

State.	1904-1908.	1909.	Country.	1908-1907.	1908.
New Zealand	8·56	8·33	Servia	10·3	9·2
Tasmania	7·74	8·13	Roumania	9·1	9·2
<i>New South Wales</i>	7·62	8·03	Hungary	8·8	9·1
South Australia	7·39	8·00	Italy	7·6	8·3
Queensland	6·71	7·95	Prussia	8·1	8·0
Victoria	7·28	7·34	France	7·7	8·0
Western Australia	8·28	7·27	England and Wales	7·8	7·5
			Denmark	7·3	7·4
			Netherlands	7·4	7·2
			Spain	7·4	7·1
			Scotland... ..	6·9	6·5
			Sweden	6·0	6·1
			Norway	5·9	6·1
			Ireland	5·2	5·2

New Zealand has the highest marriage rate in Australasia, followed by Tasmania, New South Wales, South Australia, and Queensland, in the order mentioned, with Western Australia last on the list. In 1909 in all the States the rates showed a decided improvement, with the exception of Western Australia.

A comparison of the marriage-rates of various countries may be misleading, on account of the different conditions of life prevailing, and the varying number of marriageable persons therein. The figures show that in Europe, as in New South Wales, the marriage rate has been increasing. In the majority of cases the rate is equal to, or lower than that in New South Wales.

MARK SIGNATURES.

The number of persons who signed the marriage register with marks in the year 1909 was 157, equal to 6.03 per 1,000 persons married. The number of mark signatures has steadily declined for many years past. In 1870 the proportion of signatures made with marks was as high as 18.23 per cent. of the whole, while in 1909 the percentage had fallen to .6, or one-thirtieth of the earlier rate, the decrease in illiteracy being, therefore, highly satisfactory.

The amount of illiteracy, as displayed by inability to sign the marriage register in the proper manner, was for many years greater amongst females than amongst males, the returns showing that this was the case in every year from the commencement of registration to 1887. This order was then reversed, although in three years since there has been a slightly greater proportion of mark signatures by females. During the last two years the rate was almost the same for both sexes. In 1870 the number of women who were unable to sign their names amounted to over one-fifth of the whole number married, but the proportion had fallen to less than one hundredth in 1909. During the same period the male illiterates fell from 145 to 6 per 1,000 of the number of males married:—

Year.	Males signing with marks, per 1,000.	Females signing with marks, per 1,000.	Year.	Males signing with marks, per 1,000.	Females signing with marks, per 1,000.
1870-74	129	170	1900-04	12	12
1875-79	86	105	1905	11	12
1880-84	54	68	1906	10	9
1885-89	37	40	1907	10	7
1890-94	27	25	1908	8	8*
1895-99	19	17	1909	6	6

MARRIAGES, IN RELIGIONS.

Of every hundred marriages celebrated in New South Wales, about ninety-eight are solemnised by the clergy. The actual figures for 1909 show that during that year 12,826 marriages were solemnised by clergy and 222 witnessed by registrars, giving the proportions of 98.3 per cent. and 1.7 per cent. respectively of the total number of 13,048.

The Church of England celebrates the largest number of marriages, the Roman Catholic Church coming next, followed by the Presbyterian and Methodist Churches. "Matrimonial Agencies" are institutions which have

come into existence during the last twelve years, and which combine the formalities of a district registrar's office with the attendance of a clergyman. As the Registrar-General three years ago refused to renew the licenses of certain clergymen, there have been no marriages in these agencies since 1907.

The following table shows the number and proportion per cent. of marriages registered by the several denominations during 1909, in comparison with the preceding five years:—

Denomination.	Marriages, 1904-1908.	Proportion per cent.	Marriages, 1909.	Proportion per cent.
Church of England ...	21,598	37.38	5,304	40.65
Roman Catholic ...	10,392	17.99	2,345	17.97
Presbyterian ...	7,689	13.31	1,691	12.96
Methodist ...	7,410	12.83	1,464	11.22
Congregationalist...	4,826	8.36	1,445	11.07
Baptist ...	1,056	1.83	192	1.47
Hebrew ...	113	0.19	41	0.32
All other Sects ...	1,318	2.28	344	2.64
Matrimonial Agencies ...	2,106	3.64	...	...
District Registrars ...	1,266	2.19	222	1.70
Total Marriages ...	57,774	100.00	13,048	100.00

In 1909 the denominations which showed an increased rate as compared with the previous five years were Church of England, Congregationalist, and Hebrew. The largest increase was in the Congregationalist, which includes the "Whitefield" Congregationalists.

CONDITION BEFORE MARRIAGE.

During the year 1909, of the males married, 12,186 were bachelors, 785 were widowers, and 77 were divorced. Of the females, 12,282 were spinsters, 646 were widows, and 120 were divorced. The proportion of males re-married was 6.6 per cent., and of females 5.9 per cent.

The following table shows at quinquennial intervals since 1881 the proportion of first marriages and re-marriages per 10,000 males and females respectively:—

Period.	Bachelors.	Widowers and Divorced Men.	Spinsters.	Widows and Divorced Women.
1881	9,087	913	9,044	956
1886	9,137	863	9,156	844
1891	9,229	771	9,216	784
1896	9,184	816	9,172	828
1901	9,270	730	9,268	732
1906	9,262	738	9,352	648
1907	9,341	659	9,387	613
1908	9,335	665	9,436	564
1909	9,339	661	9,413	587

From this it appears that the proportion of persons re-marrying has declined in both sexes by about one-third since the earliest period in the table, the tendency being for the re-marriages of widows to decrease at a slightly greater rate. There was a rise in the proportion between 1891 and 1896, which was followed by a larger fall during the next five years, so that the proportion of remarriages was lower in 1901 than in 1891.

AGE AT MARRIAGE.

Of the 13,048 couples married in 1909, the ages of 13,046 bridegrooms and of 13,043 brides are known. An examination of the figures shows that in 73·7 per cent. of the marriages the husband was older than the wife; in 9·5 per cent. the ages of the contracting parties were the same; while in the remaining 16·8 per cent. of the unions the bride was older than the bridegroom.

The results of a tabulation of the respective ages of bridegrooms and brides in 1909 are shown in the following table:—

Ages of Bridegrooms.	Ages of Brides.												Total.
	Under 18.	18.	19.	20.	21—24	25—29	30—34	35—39	40—44	45—49	50 and over.	Not stated	
Under 13 years	7	4	..	..	2	..	..	..	..	..	..	..	13
13 years..	23	24	14	4	8	2	..	..	..	..	..	..	75
19 „	38	43	38	23	23	5	..	..	..	..	..	..	170
20 „	50	50	66	59	83	14	1	..	..	..	..	..	323
21—24	245	317	443	460	1,985	430	61	13	1	2	..	1	3,958
25—29	113	160	220	282	1,855	1,369	264	41	11	5	1	..	4,321
30—34	34	33	65	79	593	735	335	93	9	5	1	2	1,984
35—39	9	19	26	25	208	297	234	158	46	14	5	..	1,041
40—44	1	2	..	8	51	116	131	102	60	29	4	..	504
45—49	2	3	..	3	24	68	56	61	55	27	14	..	313
50 and over	..	2	..	2	11	23	42	58	52	56	93	..	344
Not stated	..	..	..	..	..	..	..	..	..	..	..	2	2
Total	522	657	872	945	4,843	3,064	1,124	526	234	138	118	5	13,048

The following statement shows the average age at marriage of both bridegrooms and brides for each of the last ten years. The difference between the ages at marriage of males and females is about four years, the males being the older.

Year.	Average age of Bridegrooms.	Average age of Brides.	Year.	Average age of Bridegrooms.	Average age of Brides.
	Years.	Years.		Years.	Years.
1900	29·15	25·03	1905	29·13	24·96
1901	29·08	24·91	1906	29·23	25·08
1902	29·25	25·03	1907	29·20	25·20
1903	29·20	25·04	1908	29·02	25·19
1904	29·00	24·93	1909	29·11	25·30

The average age at marriage, both of bridegrooms and brides, has remained practically constant during the last ten years, although there is now a slight tendency to a lower average on the part of bridegrooms.

The above figures relate to all persons marrying during the year, and include those re-marrying. The average ages of those marrying for the first time during 1909 were, of bachelors 28·1 years, and of spinsters 24·7 years, being about twelve months lower in the case of bridegrooms and seven months lower in the case of brides.

MARRIAGE OF MINORS.

The number of persons under 21 years of age married during 1909 was 3,577, or 13.7 per cent. of the total. The proportion of bridegrooms who were minors was 4.4 per cent., and of brides 23.0 per cent. The proportion of bridegroom minors was considerably above the average, but in the case of the brides the proportion was below the average. The figures for the last ten years are appended:—

Year.	Minors.		Percentage of—	
	Bridegrooms.	Brides.	Bridegrooms.	Brides.
1900	294	2,297	2.94	22.98
1901	351	2,546	3.33	24.16
1902	309	2,372	2.95	22.62
1903	320	2,249	3.28	23.05
1904	395	2,506	3.79	24.05
1905	434	2,654	3.96	24.19
1906	497	2,837	4.30	24.56
1907	577	2,949	4.73	24.19
1908	520	2,942	4.11	23.27
1909	581	2,996	4.45	22.96

An examination of the records for the last thirty years shows that the proportion of minors marrying is increasing among bridegrooms, and has a tendency to decrease amongst brides.

BIRTHS.

The number of births during 1909 was 43,769, equal to a rate of 26.94 per 1,000 of the total population. The actual number of births was the highest ever recorded in this State, and the rate was equal to the average for the preceding ten years. The birth-rate, which fell away sharply after 1888, declined considerably down to 1903, and is now practically stationary, being 27 per cent. below the figure for 1888. The following table shows the average annual number of births and birth-rate per 1,000 of the total population in quinquennial periods since 1870:—

Year.	Births.	Birth-rate per 1,000 of Population.	Year.	Births.	Birth-rate per 1,000 of Population.
1870-74	20,733	39.36	1900-04	37,498	26.85
1875-79	24,388	38.51	1905	39,501	26.71
1880-84	30,417	37.89	1906	40,948	27.04
1885-89	36,877	36.85	1907	42,195	27.14
1890-94	39,550	33.80	1908	42,525	26.77
1895-99	37,042	28.63	1909	43,769	26.94

These rates are based on the total population—that is, not taking into consideration either the age or sex distribution. It is unsatisfactory, for several reasons, so to measure the birth-rate; a preferable method for purposes of strict analysis, is to calculate the number of legitimate births per 1,000 married women of reproductive ages (from 15 to 45). Unfortunately, however, the number of persons living in various age groups is ascertained only at the census. In intervening years it is necessary to make an estimate, which becomes less reliable as the period from the census increases. Estimates of sections of the population depend on a double assumption, viz., that the

proportion of that section to the total population, and also the proportion at each age, remain the same as at the census. As the fluctuations in each case are unknown, such estimates become increasingly unreliable year by year. It has, therefore, been considered inadvisable to make any estimate for so late a period as 1909, which is eight years from the last census, but up to the time of that census the rates based on the number of married women show similar results to that in the above table, except that proportionately the decline since 1888 is greater than shown there.

The birth-rate per 1,000 of the population of each State of the Commonwealth, of New Zealand, and of a number of European countries, during the last six years, is given in the following table:—

State.	1904-1908.	1909.	Country.	1903-1907.	1908.
Tasmania	29·80	29·90	Roumania	39·9	40·8
Western Australia	29·74	27·66	Servia	39·6	36·8
New Zealand	27·20	27·29	Hungary	36·3	36·3
Queensland	26·59	27·24	Italy	32·1	33·4
<i>New South Wales</i>	26·88	26·94	Spain	34·2	33·2
Victoria	24·87	24·57	Prussia	33·8	32·8
South Australia	24·22	24·57	Netherlands	30·8	29·7
			Denmark	28·6	28·3
			Scotland	28·2	27·2
			England and Wales	27·4	26·5
			Sweden	25·7	25·7
			Norway	27·5	26·2
			Ireland	23·4	23·3
			France	20·6	20·2

In Australasia South Australia has the lowest and Tasmania the highest rate. The comparatively high rate in the Western State is due to the larger proportion of married women of child-bearing ages in its population. Generally the decline, which has characterised the birth-rates not only of Australia but also of European countries, has continued. The birth-rate for Australia is lower than in most of the countries of the old world, but, as will be shown subsequently, this is more than counteracted by a much lower death-rate.

BIRTH-RATES—METROPOLIS AND COUNTRY.

Dividing the State into metropolitan and country districts, there were during 1909, in the former, 15,461 births, and in the latter 28,308, corresponding to rates of 25·81 and 27·67 per 1,000 of population respectively. The country has shown a higher rate than the metropolis since 1893, but prior to that year the metropolitan rate was the higher.

Year.	Number of Births.			Births per 1,000 of Population.		
	Metropolis.	Country.	New South Wales.	Metropolis.	Country.	New South Wales.
1880-84	49,058	103,026	152,084	40·16	36·90	37·89
1885-89	65,866	118,517	184,383	41·50	34·69	36·85
1890-94	68,754	128,998	197,752	34·11	33·63	33·80
1895-99	61,224	123,986	185,210	26·73	29·75	28·68
1900-04	63,694	123,795	187,489	25·20	27·78	26·85
1905	13,769	25,732	39,501	25·95	27·14	26·71
1906	13,984	26,964	40,948	25·66	27·82	27·04
1907	14,334	27,861	42,195	25·28	28·22	27·14
1908	14,861	27,664	42,525	25·42	27·56	26·77
1909	15,461	28,308	43,769	25·81	27·67	26·94

The highest rate exhibited for the whole of New South Wales during the last thirty years was 38·65 in 1880. The maximum rate for the metropolis was reached in 1884, when the births were 43·88 per thousand of the population; and in the country districts the greatest number of births in proportion to the population occurred in 1880, when the rate was 38·73 per thousand.

The rate has been declining in both districts, but not to the same extent in the country as in the metropolis. In the metropolis there was a heavy fall from 1890 to 1894, and again from 1895 to 1899; in the country there was a corresponding fall, but it began earlier than in the metropolis. In both metropolis and country the rates have fluctuated very slightly during the last 5 years; the country rate, on the average, has been 2 per 1,000 of the population better than that of the city.

SEXES OF CHILDREN.

Of the 43,769 children born during the year, 22,499 were males and 21,270 were females, the proportion being 106 males to 100 females. In no year, so far as observation extends, have the female births exceeded in number those of males, although the difference has sometimes been very small. The preponderance of births of male children in New South Wales during a number of years will be seen from the table given below. The figures are exclusive of children stillborn, the births of which are not registered:—

Year.	Males.	Females.	Persons.	Year.	Males.	Females.	Persons.
1870-74	10,577	10,156	20,733	1900-04	19,134	18,364	37,498
1875-79	12,477	11,911	24,388	1905	20,206	19,295	39,501
1880-84	15,567	14,850	30,417	1906	21,066	19,882	40,948
1885-89	18,898	17,979	36,877	1907	21,616	20,579	42,195
1890-94	20,324	19,226	39,550	1908	21,643	20,882	42,525
1895-99	18,979	18,063	37,042	1909	22,499	21,270	43,769

The excess of males over females born during the past forty years has ranged from 2 per cent. in 1875, 1876, and 1901, to 8 per cent. in 1889, the average being 4·9 per cent.

The following table shows the number of males born to every 100 females, both in legitimate and illegitimate births during the last forty years:—

Year.	Legitimate Births.	Illegitimate Births.	All Births.	Year.	Legitimate Births.	Illegitimate Births.	All Births.
1870-74	104·3	101·0	104·1	1900-04	104·3	102·8	104·2
1875-79	104·6	108·8	104·8	1905	104·9	102·5	104·7
1880-84	104·9	103·9	104·8	1906	106·2	103·1	106·0
1885-89	105·4	98·8	105·1	1907	105·0	105·3	105·0
1890-94	105·7	105·4	105·7	1908	103·4	107·1	103·6
1895-99	105·0	105·4	105·1	1909	105·7	106·4	105·8

Generally speaking, illegitimate births show a greater equality of the sexes than legitimate, and in some years they actually show a majority of female children, such instances having occurred twice during the last twenty years. It is a curious coincidence that the proportion of males born out of wedlock was abnormally low in 1886, and abnormally high in 1901, while the reverse was the case in regard to legitimate births in those years.

ILLEGITIMACY.

The number of illegitimate births in 1909 was 2,879, equal to 6.58 per cent. of the total births. A statement of the illegitimate births in New South Wales since 1880, distinguishing metropolitan and country districts, is given below; and, taking the whole period over which the table extends, it will be seen that the proportion has constantly increased throughout the State, notably in the city and suburbs of Sydney:—

Year.	Number of Illegitimate Births.			Ratio per cent. to Total Births.		
	Metropolis.	Country Districts.	New South Wales.	Metropolis.	Country Districts.	New South Wales.
1880	561	665	1,226	6.72	3.36	4.35
1890	1,056	995	2,051	7.81	3.91	5.26
1900	1,222	1,383	2,605	10.08	5.53	7.01
1905	1,530	1,382	2,912	11.11	5.37	7.37
1906	1,457	1,425	2,882	10.42	5.28	7.04
1907	1,546	1,423	2,969	10.79	5.11	7.04
1908	1,545	1,387	2,932	10.40	5.01	6.89
1909	1,549	1,330	2,879	10.02	4.70	6.58

Doubtless the smaller proportion of illegitimate births noticeable in the country districts is caused by natural gravitation of mothers to the metropolis, due to the presence of maternity hospitals in the capital.

The method of stating the illegitimate as a proportion of the total births is erroneous, because the illegitimate births have no necessary relation to the legitimate births, and because they are compared with a standard which has been declining for several years, and which is consequently, itself variable; the proportion of illegitimate to legitimate births has increased because the number of legitimate births relatively to the population has decreased largely.

It would be preferable, because exact, to compare illegitimate births with the number of unmarried females of the reproductive ages. As stated previously, however, it is not advisable to do this at the present time on account of the remoteness of last census period, but it is hoped the means of comparison will be available after the census of 1911. In place of the rate based on the number of unmarried females, that based on the whole population is given in the following statement at quinquennial intervals since 1881.

Year.	Illegitimate Births per 1,000 of Population.	Year.	Illegitimate Births per 1,000 of Population.
1881	1.65	1906	1.90
1886	1.74	1907	1.91
1891	1.85	1908	1.85
1896	1.92	1909	1.77
1901	1.98		

According to these figures illegitimacy very slowly increased up to 1901, and has since declined. The impression as to increase, conveyed by the method of the preceding table of comparing the illegitimate with the total births, is thus removed.

Illegitimacy is a social evil, and the following figures show with what calamitous results it is attended. The table appended gives, for 1909, and for the five years preceding, the death-rates of illegitimate children under 1 and under 5 years of age, as compared with legitimate children of like ages:—

Age.	Legitimate.		Illegitimate.		Total.	
	Deaths.	Rate per 1,000 living.	Deaths.	Rate per 1,000 living.	Deaths.	Rate per 1,000 living.
Under 1 year—						
1904-1908	13,700	72·34	2,684	185·74	16,384	80·38
1909	2,738	66·96	513	178·19	3,251	74·28
Under 5 years—						
1904-1908	18,676	23·22	3,120	61·05	21,796	25·48
1909	3,645	20·54	602	51·99	4,247	22·47

It will be seen how unfavourable is the position, and how reduced is the chance of living of the illegitimate child as compared with the legitimate; since at each age the death-rate of the illegitimate is more than twice that of the legitimate. In 1909 one-sixth of the illegitimate children born did not live through the first year.

An Act was passed in 1902 to legitimise children born before marriage on the subsequent marriage of their parents. Under the provisions of this Act such children are deemed to be legitimate on registration, and are entitled to the status of children born in wedlock. In all 1,455 such registrations have been made:—

Year.	Registration.	Year.	Registration.
1902	6	1907	247
1903	158	1908	238
1904	173	1909	267
1905	175		
1906	191	Total	1,455

PLURAL BIRTHS.

During the year 1909 there were four cases of triplets, consisting of 6 males and 6 females, and 459 cases of twins, 455 males and 462 females—in all, 929 children, one born dead not being included. Of the 463 cases of plural births, 442 were legitimate and 21 illegitimate. The number of children born as triplets and twins formed 2·12 per cent. of the total births.

The following table shows the number of cases of twins, triplets, and quadruplets born in New South Wales during the seventeen years 1893-1909, excluding those stillborn, and distinguishing legitimate and illegitimate:—

Cases of—	Legitimate.	Illegitimate.	Total.
Twins	6,367	337	6,704
Triplets	58	4	62
Quadruplets	3	...	3

The total number of confinements recorded during the seventeen years was 654,108. It follows, therefore, that per 1,000,000 confinements there were 10,249 cases of twins, 89 cases of triplets, and 5 cases of four children at a birth. Stated in another way, there were 10·3 plural births in every 1,000 confinements.

The smallest proportion of plural births is found amongst women below age 20; the proportion increases steadily with the age of the mothers until it reaches a maximum with women between the ages of 35 and 40 years,

after which there is a decline, but the decline does not bring the ratio back to its starting-point, for at ages 45 to 50 the plural births are 1 to every 118 confinements recorded, whereas under 20 years the proportion is 1 to 196.

The results of the observations for the seventeen years 1893-1909 will be found in the following table; the figures refer to legitimate births only:—

Age Group of Mothers.	All Births.	Plural Births.	Plural Births per 1,000 of all Births.
Under 20 years	25,569	120	5·09
20-24 "	138,291	889	6·43
25-29 "	172,383	1,655	9·77
30-34 "	137,695	1,808	13·13
35-39 "	95,790	1,422	14·84
40-44 "	37,644	470	12·49
45 years and over... ..	4,005	34	8·49

It is a remarkable fact that of 6,428 plural births, 3,734 occurred to mothers whose ages were 30 years or upwards; this gives a proportion of 58 per cent., whereas of all legitimate births only 45 per cent. occurred at those ages.

NATURAL INCREASE.

The excess of births over deaths, or as it is called the "Natural Increase," was 27,929 in 1909, and the highest yet recorded. The excess of births over deaths does not show a steady increase or decrease, but fluctuates somewhat, as might be expected. In the whole State during the thirty years from 1880 to 1909, the least excess was 16,886 in 1882, and the highest 27,929 in the year 1909. In the metropolis the least excess was in 1880, viz. 3,434, and the highest in 1909, when the number reached 9,312. In the country districts the number ranged from 12,278 in 1882 to 18,617 in 1909:—

Year.	Natural Increase.					Increase Per cent. of population at end of previous year.
	Metropolis.	Country Districts.	Whole of State.			
			Males.	Females.	Total.	
1900	6,625	15,403	10,013	12,015	22,028	1·64
1901	6,404	15,450	9,822	12,032	21,854	1·60
1902	7,065	14,124	9,787	11,402	21,189	1·54
1903	6,836	12,633	8,949	10,520	19,469	1·38
1904	7,540	15,767	11,124	12,183	23,307	1·63
1905	7,999	16,524	11,497	13,026	24,523	1·68
1906	8,281	17,692	12,351	13,622	25,973	1·74
1907	8,096	17,689	12,187	13,598	25,785	1·68
1908	8,825	17,610	12,320	14,115	26,435	1·68
1909	9,312	18,617	13,297	14,632	27,929	1·74

The natural increase is now $1\frac{3}{4}$ per cent., as against $2\frac{1}{4}$ per cent. twenty years ago, the falling-off being due entirely to the decline in the birth-rate, as there has been a constant improvement in the death-rate.

Although the males born are more numerous than the females, the actual increase of population from the excess of births over deaths is greatly in favour of the females. The male population exceeds the female, and there is a correspondingly larger number of deaths of males. There is also a greater mortality rate amongst male than amongst female children, and from this cause alone the natural excess of male births is almost neutralised. During the ten years which closed with 1909 the number of females added to the community by excess of births exceeded the males by 15,798, or 14 per cent.

Although the rate of natural increase in New South Wales is low as compared with that of twenty years ago, it is not exceeded by any country outside Australasia, as will be seen from the following table. The figures represent the birth and death rates, and the difference between them (the natural increase) per 1,000 of population in each country—in the Australian States and New Zealand for 1909, and in the other countries for 1908:—

Country.	Birth-rate.	Death-rate.	Natural Increase.	Country.	Birth-rate.	Death-rate.	Natural Increase.
Tasmania ...	29.9	10.0	19.9	Japan (1907) ...	33.0	20.9	12.1
New Zealand ...	27.3	9.2	18.1	Norway ...	26.2	14.3	11.9
Western Australia ...	27.7	9.8	17.9	England and Wales ...	26.5	14.7	11.8
Queensland ...	27.2	9.7	17.5	Hungary ...	36.3	24.8	11.5
New South Wales...	26.9	9.8	17.1	Austria (1907) ...	33.8	22.6	11.2
South Australia ...	24.6	9.4	15.2	Scotland ...	27.2	16.1	11.1
Prussia ...	32.8	17.9	14.9	Sweden ...	25.7	14.9	10.8
Netherlands ...	29.7	15.3	14.4	Switzerland (1907) ...	26.8	16.8	10.0
Denmark ...	28.3	14.5	13.8	Spain ...	33.2	23.3	9.9
Victoria ...	24.6	11.2	13.4	Belgium (1907) ...	25.3	15.7	9.6
Roumania...	40.8	27.7	13.1	Chile ...	39.3	31.6	7.7
Servia ...	36.8	23.7	13.1	Ire.and... ..	23.3	17.6	5.7
				France ...	20.2	19.0	1.2

It will be seen that the countries with the highest birth-rate have not necessarily the highest rate of natural increase. The increase in population also depends upon the death-rate, which to a considerable extent is influenced by the birth-rate. New South Wales, owing to its exceptionally favourable death-rate, stands fifth on the list, being exceeded by Tasmania, New Zealand, Western Australia and Queensland.

AGES OF MOTHERS.

During the seventeen years 1893–1909 the ages of the women giving birth to children ranged from 11 to 58 years. As might be expected, the majority of the very young mothers were unmarried; thus of 8,384 mothers under 18 years of age, 4,434 were unmarried. The total number of married women who gave birth to children during the seventeen years was 609,408 the ages of whom were as follow. The proportion of married mothers at each age per 10,000 of all ages is also shown:—

Ages of Married Mothers.	Number of Mothers.	Number of Mothers at each age per 10,000 of total Mothers.	Ages of Married Mothers.	Number of Mothers at each age per 10,000 of total Mothers.	Number of Mothers.
Years.			Years.		
13	1	...	25	35,053	575
14	18	...	26	35,371	580
15	129	2	27	34,719	570
16	829	14	28	34,868	572
17	2,973	49	29	32,372	531
18	6,988	115	30-34	137,695	2,259
19	12,631	207	35-39	95,790	1,572
20	17,078	280	40-44	37,644	618
21	24,127	396	45 years and over	4,005	66
22	29,138	478	Not stated	31	1
23	33,083	543			
24	34,865	572	Total ...	609,408	10,000

In two cases the age of the mother is stated as 55 years; in another case as 56 years; and in another as 58. As these four cases were outside the usual experience, inquiries were made, with the result that the accuracy of the records was confirmed. It may be mentioned that in the first two cases the ages of the fathers were 45 and 55 years; in the third case, 58 years;

and in the fourth case, 64 years. It is found that the ages of the mothers of one-fourth of the children born do not exceed 25 years, and that before women pass their twenty-ninth year they give birth to one-half their offspring. Twenty-two per cent. of the births occur after age 35, and less than 7 per cent. after age 40 is reached.

Similar information regarding the ages of the fathers might also be shown, but is omitted because the age of the mother is the great predominant factor in deciding the number of children who will be born.

The mothers of illegitimate children are in some cases very young, as will be seen from the following table, which shows the ages of the mothers who gave birth to illegitimate children during the seventeen years 1893-1909. The proportion of unmarried mothers at each age per 10,000 of all ages is also shown:—

Ages of Unmarried Mothers.	Number of Mothers.	Number of Mothers per 10,000.	Ages of Unmarried Mothers.	Number of Mothers.	Number of Mothers per 10,000.
Years.			Years.		
11	1	...	27	1,446	323
12	2	...	28	1,293	289
13	23	5	29	1,105	247
14	120	27	30	1,067	239
15	471	105	31	636	142
16	1,283	287	32	759	170
17	2,534	567	33	637	142
18	3,669	821	34	646	145
19	4,380	980	35	615	138
20	4,231	947	36	547	122
21	4,111	920	37	420	94
22	3,536	791	38	458	102
23	3,062	685	39	384	86
24	2,481	555	40 and over.	854	191
25	2,077	465	Not stated..	123	28
26	1,729	387	Total.....	44,700	10,000

Two-thirds of the illegitimate children are born of mothers between the ages of 15 and 25, and more than one-half to women aged from 17 to 22 years.

DEATHS.

The deaths during 1909 numbered 15,840, equal to a rate of 9.75 per 1,000 of the population, which is 9 per cent. below the mean rate of the last ten years. This total includes 9,202 males and 6,638 females, so that amongst males the rate was 10.57, and amongst females 8.80 per 1,000, living of each sex. The average annual number of deaths of each of the sexes, with the rate per 1,000, in quinquennial periods, from 1870 is given below.

Period.	Average Annual Number of Deaths.			Death-rate per 1,000 of total Population.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
1870-74	4,391	2,948	7,339	15.58	12.32	13.93
1875-79	6,199	4,360	10,559	17.99	15.10	16.67
1880-84	7,286	5,124	12,410	16.55	14.14	15.46
1885-89	8,461	6,043	14,504	15.43	13.36	14.49
1890-94	8,877	6,344	15,221	14.06	11.77	13.01
1895-99	9,002	6,514	15,516	13.11	10.77	12.01
1900-04	9,195	6,733	15,928	12.50	10.18	11.40
1905	8,709	6,269	14,978	11.10	9.03	10.13
1906	8,715	6,260	14,975	10.81	8.84	9.89
1907	9,429	6,981	16,410	11.35	9.64	10.55
1908	9,323	6,767	16,090	10.97	9.16	10.13
1909	9,202	6,638	15,840	10.57	8.80	9.75

The death-rate has fallen continuously amongst both sexes, but slightly more for males than for females. The death-rate for males is, however, about one-fifth higher than for females, the reason being that males are exposed to more risks than females, and that male infants are the more delicate. It will be noticed that the death-rate has declined largely since the period 1890-94, and is thus coincident with the decline in the birth-rate. The falling birth-rate has influenced the death-rate in so far as it has affected the age constitution of the population by reducing the proportion living at the first five years where the mortality is high, and at the same time increased the proportion living at ages from 5 to 20 where the mortality is low. The decline in the death-rate is also coincident with the inauguration of the metropolitan sewerage scheme, as mentioned below.

For comparative purposes a table of the death-rates per 1,000 for each of the Australian States, New Zealand, and a number of European countries during the last six years is given below:—

State.	1904-1908.	1909.	Country.	1903-1907.	1908.
Victoria	12·11	11·24	Roumania	24·8	27·7
Tasmania	11·05	10·01	Hungary	25·7	24·8
Western Australia	11·27	9·85	Servia	23·0	23·7
<i>New South Wales</i>	10·26	9·75	Spain	25·0	23·3
Queensland	10·14	9·68	France	19·7	19·0
South Australia	10·00	9·37	Prussia	18·8	17·9
New Zealand	9·74	9·22	Ireland	17·5	17·6
			Scotland... ..	16·2	16·1
			Netherlands	15·2	15·3
			Sweden	15·0	14·9
			England and Wales	15·5	14·7
			Denmark	14·3	14·5
			Norway	14·3	14·3

New South Wales occupies the fourth place on the list for 1909, more favourable rates being shown by New Zealand, South Australia, and Queensland.

The comparatively favourable conditions of Australasia will be manifest from an inspection of these rates.

It might have been expected that in any case the rates in the European countries would be higher than in New South Wales on account of the larger proportions of old persons in their populations, but in addition it must be remembered that some of the endemic scourges of the old world are unknown in Australia; also apart from climatic conditions, which are most favourable here, the social condition of the great body of the people is far superior to that of Europeans, and their occupations on the whole more conducive to health.

DEATHS—METROPOLIS AND COUNTRY.

It is not possible to show the exact difference between urban and rural mortality in New South Wales, but an approximate idea may be obtained from a comparison of the experience of the metropolis with that of the country districts, although a few large towns are contained in the latter. Separating the State, therefore, into these two broad divisions, there were, during 1909, 6,149 deaths in the metropolis and 9,691 in the country, corresponding to the rates of 10·27 and 9·45 per 1,000 living respectively. The

average annual number of deaths and the rate per 1,000 in each of these divisions since 1880, in five-year periods, is given in the subjoined table:—

Period.	Metropolis.		Country Districts.		New South Wales.	
	Average Number of Deaths.	Rate per 1,000.	Average Number of Deaths.	Rate per 1,000.	Average Number of Deaths.	Rate per 1,000.
1880-84	5,033	20·60	7,377	13·21	12,410	15·46
1885-89	6,181	19·47	8,323	12·18	14,504	14·49
1890-94	5,979	14·83	9,242	12·05	15,221	13·01
1895-99	5,634	12·30	9,882	11·86	15,516	12·01
1900-04	5,845	11·57	10,083	11·31	15,928	11·40
1905	5,770	10·87	9,208	9·71	14,978	10·13
1906	5,703	10·46	9,272	9·57	14,975	9·89
1907	6,238	11·00	10,172	10·29	16,410	10·55
1908	6,026	10·32	10,054	10·01	16,090	10·13
1909	6,149	10·27	9,691	9·45	15,840	9·75

In both metropolis and country the rate has steadily improved, but very much more in the metropolis, so that there the rate is now very little higher than in the country districts, whereas twenty years ago it was 50 per cent. higher. The fall began in the metropolis after 1889, the year when the improved sewerage system was installed, and about the same time that the Dairies Supervision Act came into operation. The decline in the rates for each division and for the State during the twenty years will be further emphasised when it is stated that the metropolitan rate fell from 19·5 to 10·3 per 1,000, or 47·2 per cent. The rate in country districts declined from 12·2 to 9·4 or 22·4 per cent., and for the whole State from 14·5 to 9·8 or 32·4 per cent.

MORTALITY OF INFANTS AND YOUNG CHILDREN.

A further measure of the mortality in the metropolis and country, offering a most sensitive test is obtained by a comparison of the death-rates of infants in each district.

Children under 1 year.—The number of children under 1 year of age who died in 1909 was 3,251, equal to a rate of 74·3 per 1,000 births. This rate is the lowest on record, and is 18 per cent. below the mean rate for the last ten years. Male infants died at the rate of 80·2 per 1,000 births, and female infants at the rate of 68·0 per 1,000 births. To the total the metropolis contributed 1,261 deaths, or 81·6 per 1,000 births, and the country, 1,990, or 70·3 per 1,000 births.

The next table gives the average annual number of deaths of children under 1 year, in quinquennial periods since 1880, in the metropolis and country, and the proportion per 1,000 births.

Period.	Metropolis.		Country.		New South Wales.	
	Deaths under 1.	Rate per 1,000 Births.	Deaths under 1.	Rate per 1,000 Births.	Deaths under 1.	Rate per 1,000 Births.
1880-84	1,707	174·0	1,956	94·9	3,663	120·4
1885-89	2,168	164·6	2,256	95·2	4,424	120·0
1890-94	1,908	138·8	2,471	95·8	4,379	110·7
1895-99	1,646	134·4	2,572	103·7	4,218	113·9
1900-04	1,416	111·2	2,399	96·9	3,815	101·7
1905	1,230	89·3	1,952	75·9	3,182	80·6
1906	1,176	84·1	1,876	69·6	3,052	74·5
1907	1,380	96·3	2,360	84·7	3,740	88·6
1908	1,229	82·8	1,994	72·1	3,223	75·8
1909	1,261	81·6	1,990	70·3	3,251	74·3

The infantile mortality rate has improved more in the metropolis; in fact, until 1900, in the country districts it was increasing. In the year 1904 there was a large decrease in both divisions compared with the rate for the previous five years, and this improvement continued in 1905 and 1906. In 1907, the following year, in consequence of an epidemic of whooping-cough, the rate took an upward movement, greater in the country than in the metropolis, but it has since declined. The rate in the country districts has always been more favourable than that in the metropolis, although the difference now is not nearly so great as twenty, or even ten, years ago.

Of the total number of deaths of infants under 1 year of age, more than one-fourth die within a week of birth; by the end of the first month the proportion is over two-fifths; and after three months it reaches two-thirds. Judging by the experience of the last five years, it may be said that one in every 45 children born dies within a week of birth. The following statement shows for 1909, in comparison with the average of the five preceding years, the deaths per 1,000 births during each of the first four weeks after birth, and then for each succeeding month. The experience in the metropolis is distinguished from that in the country districts, and the sexes are taken together. Also for the year 1909, illegitimate children are distinguished from legitimate for the State as a whole.

Age.	Metropolis.		Country.		New South Wales.			
	1904-08.	1909.	1904-08.	1909.	1904-08.	1909.		Total.
						Legitimate.	Illegitimate.	
Under 1 week	24.1	24.0	21.6	19.8	22.5	20.1	38.2	21.3
1 week	4.9	4.8	4.1	3.7	4.4	3.9	7.3	4.1
2 weeks	3.7	3.0	3.1	3.0	3.3	2.8	6.9	3.0
3 ,,	2.6	2.7	2.4	2.7	2.4	2.5	4.9	2.7
Total under 1 month	35.3	34.5	31.2	29.2	32.6	29.3	57.3	31.1
1 month	8.3	7.4	7.2	6.4	7.5	5.8	20.5	6.7
2 months	7.3	5.6	5.3	4.4	6.3	4.0	17.4	4.9
3 ,,	7.3	5.7	5.2	5.8	5.9	4.9	18.1	5.8
4 ,,	6.5	6.0	4.6	4.7	5.3	4.3	17.7	5.1
5 ,,	4.9	4.7	4.1	3.6	4.4	3.5	10.4	4.0
6 ,,	4.7	4.7	3.7	3.7	4.1	3.5	11.5	4.0
7 ,,	3.9	3.9	3.2	3.2	3.5	3.1	9.0	3.4
8 ,,	3.5	2.2	3.0	2.7	3.2	2.2	6.6	2.5
9 ,,	3.4	2.5	2.8	2.6	3.0	2.4	4.2	2.6
10 ,,	2.5	2.4	2.5	1.9	2.5	1.9	3.8	2.1
11 ,,	2.4	2.0	2.0	2.1	2.1	2.1	1.7	2.1
Total under 1 year ...	90.0	81.6	75.3	70.3	80.4	67.0	178.2	74.3

In the first week of life the mortality is more than five times as great as in the second, third, or fourth weeks. From the first month to the second the mortality falls rapidly, and from the second to the twelfth gradually. Comparing the mortality in the two divisions of the State—metropolitan and country—it is seen that at every stage of life children die more quickly in the metropolis. In 1909 the metropolitan rate was 81.6 and the country 70.3 per 1,000 births, the latter being 16 per cent. lower than the former. At the earlier ages the difference was least, the metropolitan rate being about one-tenth higher during the first four weeks. After the first month the difference fluctuated, but was greater in the metropolis at every age except the fourth, ninth, tenth, and twelfth months.

This table also shows the great waste of life among illegitimate children, the mortality under one year being 178.2 per 1,000, as compared with 67.0

among legitimate children. The largest proportional excess is not immediately after birth, but about 3 months later. During the first week the mortality of illegitimates exceeds that of legitimates by 89 per cent., thereafter it increases until in the third month the excess is 335 per cent., after this it drops irregularly until in the eleventh month the excess is about 100 per cent.

Children under 5 years.—Taking account of the first five years of life, it is found that there has also been a great improvement in the rates for those ages, and, at the same time, it is apparent that the excessive total death-rate in the metropolis as compared with the country districts is caused by the deaths in this group. At every period in the table the metropolitan rate is the higher—in some cases over 50 per cent., and never below 11 per cent. in excess.

The following table shows the mortality in each division, in quinquennial periods, since 1890, of children under 5 years of age:—

Period.	Metropolis.		Country.		New South Wales.	
	Number.	Rate per 1,000 living.	Number.	Rate per 1,000 living.	Number.	Rate per 1,000 living.
1890-94	13,370	48·48	17,728	31·43	31,098	37·03
1895-99	11,027	40·94	17,436	30·63	28,463	33·94
1900-04	9,233	36·02	16,049	29·41	25,282	31·52
1905	1,555	28·55	2,588	23·30	4,143	25·02
1906	1,499	26·70	2,549	22·45	4,048	23·86
1907	1,857	32·18	3,168	27·19	5,025	28·84
1908	1,548	24·71	2,663	21·95	4,211	22·89
1909	1,603	24·69	2,644	21·30	4,247	22·47

The improvement in the metropolis has been greater than in the country; in the former the rate has decreased by 49 per cent. since 1890, and in the latter by 32 per cent. In the country the rate did not vary a great deal until 1904, when there was a large decline, which has continued. During the year 1909 there was a saving of the lives of 24 in every 1,000 children under 5 years of age in the metropolis and 10 in every 1,000 in the country, as compared with the mortality rate nineteen years ago.

INDEX OF MORTALITY.

In order to compare the death-rates of New South Wales with those of the other Australian States on a uniform basis, the death-rate of each State (index of mortality) has been calculated on the assumption that its population contained the same proportion at each of five age groups (under 1, 1 to 19, 20 to 39, 40 to 59, 60 and over) as was contained in the population of Australia as a whole at the census of 1901. Similarly in obtaining the index of mortality of each capital city, the mean population in 1901 of all the capital cities was taken as a standard.

The indexes of mortality during 1909 were found to be as follows, and for purposes of comparison the crude rates are attached:—

State.	Index of Mortality.	Crude Death-rate.	City.	Index of Mortality.	Crude Death-rate.
New South Wales	9·97	9·75	Sydney	10·51	10·27
Victoria	10·27	11·21	Melbourne	11·55	12·47
Queensland	10·35	9·68	Brisbane	11·45	10·84
South Australia	9·30	9·37	Adelaide	11·24	11·75
Western Australia	11·41	9·85	Perth	14·95	14·28
Tasmania	9·86	10·01	Hobart	12·53	14·04

Leaving out Perth and Hobart there is not a great difference between the rates of the Australian cities. Sydney has the most favourable index of mortality of all the capitals, and New South Wales is second amongst the States. In Perth the rate is high in all age-groups. South Australia has the lowest crude rate, and Victoria the highest; but the adjusted rate shows Victoria in a much better position.

AGES AT DEATH.

The age and sex distribution of a population are most important factors in determining the death-rate; for instance, the rates at ages 5 to 50 are lower than for the whole population, so that a country with a high proportion at those ages, as in New South Wales, might expect to have a low death-rate. Again, a country with a high proportion of females will most likely have a favourable death-rate.

It has already been pointed out that results based on estimates of the numbers living in various age groups at periods remote from a census must be used with caution. And, therefore, no rates of that description are given in this report. It has been considered advisable to wait until after the next census in 1911, when the rates may be discussed with more definiteness.

CAUSES OF DEATH.

One of the most important sections of vital statistics is that relating to causes of death, and in the following discussion the principal diseases in New South Wales are treated in detail.

Until 1906, the system of classifying the causes of death was that adopted by the Registrar-General, England. In 1906, however, at a conference of Australian Statisticians, it was agreed to adopt the Bertillon classification, and causes of death in New South Wales are now tabulated according to that classification. The Bertillon system differs in many cases from the old, and in some rather materially, so that a comparison of the results since 1906 with previous years is, to some extent, impaired.

In the following table will be found the principal causes of death arranged in order of fatality, together with the average number of deaths from similar causes during the previous five years, due allowance having been made for the increase in population:—

Causes of Death.	Number, 1909.	Average Number, 1904-08.	Causes of Death.	Number, 1909.	Average Number, 1904-08.
Organic Diseases of Heart	1,422	1,296	Suicide	193	188
Endocarditis	140		Diphtheria and Croup ...	185	151
Diarrhoea and Enteritis (under 2)	1,159	1,131	Convulsions (under 5) ...	177	231
Diarrhoea and Enteritis (over 2)	327	315	Appendicitis	154	118
Cancer	1,166	1,090	Meningitis	142	167
Tuberculosis—Lungs ...	1,040	1,111	Intestinal Obstruction ...	126	133
Old Age	901	1,033	Diabetes	125	116
Accidents	879	909	Cirrhosis of the Liver ...	111	112
Pneumonia	868	994	Gastritis	110	100
Hæmorrhage, &c., of the			Influenza	107	231
Brain	723	537	Congenital Malformations	85	103
Premature Birth	663	694	Dysentery	72	99
Bright's Disease	658	630	Embolism and Thrombosis	70	64
Congenital Debility ...	504	564	Acute Rheumatism ...	64	79
Bronchitis	453	610	Epilepsy	59	68
Typhoid Fever	287	269	Syphilis	51	54
Puerperal Condition ...	252	305	Others	2,562	2,974
			All Causes	15,840	16,476

Of the six most numerous causes, there were increases in diseases of the heart, which may have been caused by the changes in classification, and in cancer. Of other important causes, pulmonary tuberculosis, pneumonia, accidents, and bronchitis showed decreases.

As regards diseases ordinarily fatal to infants, there were decreases in congenital debility, convulsions, malformations, and premature birth, and an increase in diarrhoea and enteritis.

In the succeeding tables the changes in the important diseases are dealt with separately.

TYPHOID FEVER.

The number of deaths from typhoid fever during 1909 was 287, equivalent to 1.77 per 10,000 living, which is 6.6 per cent. higher than the rate for the previous five years. As this is essentially a preventable disease, and readily yields to sanitary precautions, the rate is still high, notwithstanding the great improvement in the last twenty years. It is higher than in England, where in 1908 the rate was .75 per 10,000, or about two-fifths of the rate in New South Wales.

The number of deaths and rates since 1884 have been as stated below:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88 ...	1,356	5.12	1,115	5.13	2,471	5.13
1889-93 ...	959	3.11	714	2.74	1,673	2.94
1894-98 ...	1,107	3.27	731	2.46	1,838	2.89
1899-1903 ...	1,054	2.91	733	2.25	1,787	2.60
1904-08 ...	748	1.85	507	1.43	1,255	1.66
1909 ...	169	1.94	118	1.56	287	1.77

The decrease between 1888 and 1893 was very marked, and is to be traced to the influence of the Dairies Supervision Act, which began to operate in 1889. From 1889 to 1903 the rate was very even, and did not decline to any extent, but during the next quinquennium there was a considerable improvement.

The next statement gives the rate in the metropolis and in the country districts during the last sixteen years, and, contrary to what might have been expected, the rate in the metropolis has been only about two-thirds of that in the remainder of the State. It would appear that the drainage of some of the country towns is very defective, and the water supply less pure than in the metropolis.

Period.	Metropolis.		Country Districts.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1894-98 ...	507	2.26	1,331	3.24
1899-1903 ...	426	1.73	1,361	3.09
1904-08 ...	334	1.21	921	1.91
1909 ...	86	1.44	201	1.96

Most deaths occur in the summer and autumn. In 1909 there were 112 deaths in the summer months, December, January, February, and 114 in the autumn months, March, April, May.

MEASLES.

Measles was the cause during 1909 of 11 deaths, equal to a rate of .07 per 10,000 living. The rate for males was .09, and for females .04, the male rate being the higher, which is contrary to the experience of previous years. The following statement shows the deaths from measles and the rate per 10,000 living, for each sex, arranged in quinquennial periods since 1884:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	166	.63	165	.76	331	.69
1889-93	393	1.28	369	1.41	762	1.34
1894-98	338	1.00	324	1.09	662	1.04
1899-1903	160	.44	219	.67	379	.55
1904-08	82	.20	107	.30	189	.25
1909	8	.09	3	.04	11	.07

Measles is a disease chiefly affecting children, and is periodically epidemic, of the 11 deaths last year 9 were of children under 5 and 3 of children under 1 year of age. The rates would be more accurately stated if the deaths were compared with the children living of like ages. However, taking the table as it stands, it will be seen that the disease during 1909 was much less fatal than in the preceding quinquennium, the rate being the lowest since 1900. The high rates during the second and third periods were due to severe outbreaks in 1893 and 1898.

SCARLET FEVER.

In 1909 the number of deaths from this disease was 30, equivalent to a rate of 0.18 per 10,000 of the population, which is 25 per cent. lower than the rate during the previous five years. The number of deaths in the metropolis was 8, and in the remainder of the State 22, the equivalent rates being 0.13 and 0.21 respectively per 10,000 living in each, which is a departure from the usual experience, which discloses a rate in the metropolis about three times as large as in the country districts. Since 1884 the deaths from scarlet fever and the rates for each sex have been as follows:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	287	1.08	342	1.57	629	1.30
1889-93	185	.60	236	.90	421	.74
1894-98	162	.48	218	.73	380	.60
1899-1903	84	.23	114	.35	198	.29
1904-08	88	.22	91	.26	179	.24
1909	10	.11	20	.27	30	.18

Over the whole period the deaths from scarlet fever show a steady and most satisfactory decrease in both sexes. Generally the rate for females is higher than for males. Like measles, it is an epidemic disease chiefly affecting children.

WHOOPIING-COUGH.

Whooping-cough is another of the diseases which chiefly affect children, and is more fatal to girls than boys. During 1909 the deaths numbered 17, of which 9 were of girls, and 8 of boys. The rate was 0.10 per 10,000 living, 91 per cent. below the average of the previous five years. In 1907 whooping-cough was epidemic, and 594 cases proved fatal, the rate being the highest

since 1878. The deaths and rates for each sex since 1884 have been as stated below:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	327	1.24	472	2.17	799	1.66
1889-93	495	1.61	666	2.55	1,161	2.04
1894-98	343	1.01	502	1.69	845	1.33
1899-1903	573	1.58	726	2.23	1,299	1.89
1904-1908	369	.91	445	1.25	814	1.07
1909	8	.09	9	.12	17	.10

Taking the whole period covered by the table, this disease does not show any marked tendency to decline, the rates being maintained by epidemics, the last being, with the exception of 1878, the most severe yet experienced. Of the children who died in 1909, 12 were under 1 year of age and 16 under 5.

DIPHTHERIA AND CROUP.

Diphtheria, with which is included membranous croup, was the cause of 166 deaths in 1909, while croup, so defined, was responsible for 19. The rate for 1909 was 1.14 per 10,000 living, which is the highest since 1904, being 22.6 per cent. above the rate for the previous five years. In the metropolis the number of deaths was 47, and in the remainder of the State 138, corresponding to rates of 0.78 and 1.35 per 10,000 living in each. The following table shows the number of deaths and the rates in five-year periods since 1884:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	1,069	4.04	980	4.51	2,049	4.25
1889-93	1,433	4.65	1,399	5.36	2,832	4.98
1894-98	712	2.10	710	2.39	1,422	2.24
1899-1903	310	.86	299	.92	609	.89
1904-1908	367	.91	338	.95	705	.93
1909	96	1.11	89	1.18	185	1.14

Until 1893 the rate did not show very much diminution, but it has since declined considerably, and is now less than one-fourth of what it was twenty years ago. Nearly 90 per cent. of the persons who die from diphtheria are under 10, and about 60 per cent. under 5 years of age.

NOTIFIED DISEASES.

The following statement shows the total number of cases of notifiable diseases reported to the Board of Health, with regard to the metropolitan district during the years 1900 to 1909, together with the death-rate and the fatalities per 100 cases:—

Diseases.	Notified Cases.		Deaths.		Fatality per cent. (=Deaths per 100 cases).
	Number.	Rate per 10,000 of Population.	Number.	Rate per 10,000 of Population.	
Scarlet Fever	12,546	23.4	195	0.4	1.6
Diphtheria	6,552	12.2	442	0.8	6.7
Typhoid Fever	7,049	13.2	718	1.3	10.2

It is interesting to compare this result with the experience of London, where the fatality from scarlet-fever is 2·7 per cent. of notified cases, from diphtheria 10·7 per cent., and from enteric 16·0 per cent. These diseases are more virulent in their effects in London, in the first case being nearly twice as fatal as in Sydney, and in the other two about one and a half times.

INFLUENZA.

There were 107 deaths attributed to influenza during the year, equal to a rate of ·66 per 10,000, which is the lowest recorded since 1889. The rate is almost the same for both sexes, being ·64 per 10,000 males, and ·68 per 10,000 females. Prior to 1891 this disease was very little known, or rather few deaths were ascribed to it, but in that year there was a very severe epidemic, and it has since always been more or less prevalent. The majority of deaths from influenza occur in the three months, August, September, and October.

TUBERCULOUS DISEASES.

To the several forms of tuberculous diseases, 1,265 or 8 per cent. of the total deaths in New South Wales during 1909 are attributable, equivalent to 7·79 per 10,000 living. This rate was 7·5 per cent. below the average for the previous five years.

In addition to phthisis with 1,040 deaths as shown below, tuberculosis of meninges caused 68 deaths, equal to a rate of ·42 per 10,000 living, and tuberculosis of the peritoneum, which includes tabes mesenterica, caused 73 deaths—35 males and 38 females—equal to a rate of ·45 per 10,000. These types of the disease are confined mainly to children—48 of the victims of the former, or 71 per cent., were under 5 years of age, and of the latter, 37, or 51 per cent. Other tuberculous diseases caused 84 deaths, being at the rate of ·52 per 10,000 living.

PHTHISIS.

Phthisis, or pulmonary tuberculosis, with 1,040 victims, caused 6·6 per cent. of the total deaths, and more than any other disease except cancer. This is equivalent to 6·40 per 10,000 living, the rate amongst males being 6·78 and amongst females 5·97 per 10,000. In 1909 the rate was slightly higher than in the two preceding years, but was 6 per cent. lower than the average rate for the five years, 1904-08.

The table below shows the deaths from this disease and the rates for each sex since 1884 :—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	3,132	11·83	2,022	9·30	5,154	10·69
1889-93	3,269	10·61	1,925	7·38	5,194	9·13
1894-98	3,191	9·43	1,983	6·68	5,174	8·15
1899-1903	3,322	9·18	2,304	7·09	5,626	8·19
1904-1908	2,985	7·40	2,184	6·16	5,169	6·82
1909	590	6·78	450	5·97	1,040	6·40

It will be observed that during the whole period of the table the rate declined amongst males, but after declining amongst females down to 1898 it then showed an upward tendency. Since 1904, however, there has been a marked improvement. The decrease in the number of deaths from phthisis and other forms of tuberculosis has taken place since the passing of the Dairies Supervision Act of 1886, the Diseased Animals and Meat Act of 1892, and the Public Health Act of 1896, and may be attributed to their operation. The Board of Health is empowered by these Acts to supervise dairies and the production of milk, cream, butter, and cheese, and to prevent the sale of tuberculous meat.

If the deaths be distinguished in the two divisions of the metropolis and the country districts, as in the following table, it will be seen that the rate in the former is 8 per cent. higher than in the latter :—

Period.	Metropolis.		Country Districts.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1894-98	2,302	10·26	2,872	6·99
1899-1903	2,490	10·04	3,136	7·14
1904-08	2,184	7·94	2,985	6·18
1909	403	6·73	637	6·21

The Australian climate is certainly favourable to those who suffer from pulmonary diseases, and a large number of persons suffering from phthisis visit Australia in search of relief. Many of these are in the last stages of the disease, and succumb after a short residence in the State. The figures for the year 1909 show that out of the 1,040 persons who died from phthisis, 694 were born in Australia, and of the remainder, 41 had been resident in the Commonwealth less than five years, 57 from five to twenty years, and 229 for more than twenty years; in 19 instances neither birth-place nor length of residence was stated.

Phthisis is the most deadly of all diseases, and the following comparison of the rates in various countries is interesting. The rates are stated per 1,000 of total population, and thus do not take specifically into account either age or sex, which are material factors. If anything, this omission makes the comparison more favourable to New South Wales and other Australian States, where the proportion of aged persons is smaller than in the countries of the old world. There is also possibly a variation in the methods of classification of the deaths in the various countries.

Country.	Death-rate per 1,000 of Total Population.		Country.	Death-rate per 1,000 of Total Population.	
	1898-1907.	1908.		1898-1907.	1908.
Servia	2·70	3·12	Italy	1·20	1·22
Ireland	2·13	1·95	Victoria	1·11	·96
Norway	2·02	.....	South Australia	·89	·82
Switzerland	1·86	.....	Queensland	·79	·63
Scotland	1·48	.....	New South Wales	·77	·64
Japan	1·47	.....	Western Australia	·74	·72
Netherlands	1·40	1·20	New Zealand	·71	·64
England and Wales	1·23	1·12	Tasmania	·64	·76

New South Wales stands fourth from the bottom of the above list. The rate in all the European countries is higher than in New South Wales, and the three with lower rates are all Australasian States. The experience of the countries in the table, with the exception of Servia, is similar to that of New South Wales, namely, that the rate is decreasing. In Servia the rate is very high, and shows no tendency to decrease.

The author has published, in a separate pamphlet, a statistical analysis of the mortality from tubercular diseases during the thirty-three years, 1876 to 1908. The experience of the whole period shows that the mortality has been heavier amongst males than females, the death-rates heavier in the metropolis than in the country, and the incidence of the disease higher for females than for males up to the age of 40 years, and above that age the male incidence is the higher.

A comparison of the death-rates in individual years of the period shows that the time of the greatest absolute rate in all classes, geographical or sexual, or as to time of life, was about the year 1885, and the present-day figures show the lowest rates. An improvement is observable in every age group, but it is mainly to the infantile group that the marked decline in the death-rate must be ascribed. The country rates were uniformly less than the metropolitan, and the female less than the male. Of the different types of tuberculosis, phthisis provides the great bulk of the mortality.

CANCER.

There were 1,166 deaths from cancer in 1909, equal to a rate of 7·18 per 10,000 living, which is the highest on record, and 7 per cent. above the average for the preceding five years. The deaths during the year were 608 amongst the males and 558 amongst the females, the rates being 6·98 and 7·40 per 10,000 living of each sex respectively.

It would appear that cases of cancer are increasing in New South Wales much faster than might be expected from the actual increase in population, so that during the last twenty years the rates have been doubled. It has been stated that the more skilful diagnosis of late years, especially of internal cancer, may account for part of the increase; but how far this is so it is impossible to say, and there seems to be no doubt that the spread of cancer is real. The following table shows the deaths and rates per 10,000 living for each sex since 1884:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	859	3·25	732	3·37	1,591	3·30
1889-93	1,262	4·10	1,038	3·98	2,300	4·04
1894-98	1,719	5·09	1,387	4·68	3,106	4·89
1899-1903	2,295	6·34	1,877	5·77	4,172	6·07
1904-08	2,671	6·62	2,418	6·82	5,089	6·71
1909	608	6·98	558	7·40	1,166	7·18

The rates have increased steadily, although the female rate fluctuates to some extent. Generally the male rate is the higher, which is contrary to the experience of the United Kingdom, where the female rate preponderates.

The ages of the deceased ranged from 1 month to 92 years, but cancer is essentially a disease of old age; 95 per cent. were aged 35 and over.

Cancer is probably the most feared of all diseases, inasmuch as no specific remedy is known, and in all countries for which there are records the death-rate is on the increase. In the following table the rates based on the whole population are given for certain countries. The comparison, being uncorrected for age incidence, is somewhat crude, but is apparently favourable to the Australian States.

Country.	Death-rate per 1,000 of Total Population.		Country.	Death-rate per 1,000 of Total Population.	
	1898-1907.	1908.		1898-1907.	1908.
Switzerland	1·29	.....	South Australia ...	·65	·68
Netherlands	·97	1·03	<i>New South Wales</i> ...	·63	·67
Norway	·93	.....	Tasmania	·56	·68
England and Wales ...	·86	·93	Italy	·55	·64
Scotland	·85	.....	Queensland	·55	·61
Victoria	·74	·79	Western Australia ...	·44	·52
Ireland	·68	·76	Hungary	·37	·43
New Zealand	·66	·70	Servia	·10	·13
Prussia	·65	·74			

In this comparison there are six with rates lower than New South Wales, of which three are outside Australia. In all the above countries the rate shows a tendency to increase.

DIABETES.

The deaths attributed to diabetes in 1909 numbered 125, equal to a rate of 0·77 per 10,000 living, which is 8 per cent. above the average for the preceding five years. The rate for males was 0·83 and for females 0·70 per 10,000 living of each sex. Most of the deaths occur after middle life. Of the above total, 91 were of persons over 45 years of age.

MENINGITIS.

Inflammation of the brain or its membranes caused 142 deaths, equal to a rate of 0·93 per 10,000 living. This is 10 per cent. below the average rate during the previous five years. The disease is principally one of childhood. Of those who died during the year, 89 or 63 per cent., were under 5 years of age. Included in the total are 24 deaths from cerebro-spinal meningitis.

HÆMORRHAGE OF THE BRAIN.

To cerebral hæmorrhage and apoplexy there were due 609 deaths, of which 323 were males and 286 females. The rate is 3·75 per 10,000 living, 3·71 for males and 3·79 for females, in each case being above the average.

The following table shows the rates for these diseases for each sex in quinquennial periods since 1884:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	778	2·97	467	2·15	1,245	2·58
1889-93	796	2·58	618	2·37	1,414	2·48
1894-98	943	2·79	710	2·39	1,653	2·60
1899-1903	1,050	2·90	788	2·42	1,838	2·68
1904-08	1,303	3·23	1,039	2·93	2,342	3·09
1909	323	3·71	286	3·79	609	3·75

Generally the male rate is a little higher than the female. There has been slight difference in the rate for many years—it has fluctuated, first with a tendency to decrease down to 1895, and then to increase. Possibly the variations in the rate are due to some extent to differences in classification.

CONVULSIONS OF CHILDREN.

Convulsions of children (under 5 years) caused 177 deaths during 1909, or 1.09 per 10,000 living, which is 23 per cent. below the average for the previous five years. This disease, however, being entirely confined to children under 5, the rate is more properly stated as a proportion of those ages. Comparing therefore the deaths with the number living at those ages, the rate during 1909 was .94 per 1,000, as against 1.26 the average of the previous five years.

INSANITY.

Insanity is classed as a distinct disease of the nervous system, but of the total number of deaths of insane persons in 1909 only 192 deaths appear in the tables as due to insanity (including general paralysis of the insane), the remaining deaths being attributed to their immediate cause.

The death-rate of persons dying from insanity, including general paralysis of the insane, per 10,000 living, was 1.73 in the case of males, and .54 in the case of females.

Practically all the insane persons in New South Wales are under treatment in the various Hospitals for the Insane. At the end of 1909 there were 5,902 persons under official control and receiving treatment. This is equal to 3.63 insane persons per 1,000 of population. The average during the preceding five years was 3.45 per 1,000.

The percentage of deaths of insane persons in New South Wales is comparatively light. The following table has been computed on the basis of the average number of patients resident in Hospitals for the Insane.—

Period.	Males.		Females.		Persons.	
	Deaths in Hospitals for Insane.	Proportion of average number resident.	Deaths in Hospitals for Insane.	Proportion of average number resident.	Deaths in Hospitals for Insane.	Proportion of average number resident.
1894-98	782	per cent. 6.86	366	per cent. 5.18	1,148	6.21
1899-1903	1,021	7.77	465	5.54	1,486	6.91
1904-1908	1,280	8.24	613	6.00	1,893	7.35
1909	249	7.14	125	5.58	365	6.52

Insanity is rarely fatal before the age of puberty, and the death-rate is greater amongst males than females.

Of the insane who died during 1909, 101 persons, or over one-fourth of the whole, were aged 65 years and upwards.

DISEASES OF THE HEART.

Diseases of the heart were the cause of 1,600 deaths, equivalent to a rate of 9.85 per 10,000 living, which is 14.5 per cent. above the average for the preceding five years. Of the total, 923 were males and 677 females, the rates, 10.60 and 8.98 per 10,000 living respectively. The deaths and death-rates for each sex since 1884 are shown below:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	2,149	8.12	1,390	6.39	3,539	7.34
1889-93	2,250	7.30	1,357	5.20	3,607	6.34
1894-98	2,434	7.19	1,478	4.98	3,912	6.16
1899-1903	2,917	8.06	1,932	5.94	4,849	7.06
1904-1908	3,791	9.40	2,727	7.69	6,518	8.60
1909	923	10.60	677	8.98	1,600	9.85

Included in the total are deaths from pericarditis, endocarditis, organic diseases of the heart, and angina pectoris. The largest number of deaths (about one-half of the total) was attributed to "heart disease" without further definition—that is to say, without the particular cardiac lesion being specified.

This table shows that heart disease, on the whole, is on the increase, although it may be that part of the increase is due to a better acquaintance with the action of the heart, and that many deaths which were formerly attributed to old age are now referred to some form of heart disease.

The death-rate for males is higher than for females, probably due to the greater risks and shocks to which males are exposed. Among both sexes there was a large increase in the rate after 1898.

The ages of the persons who died ranged up to 106 years; and, as might be expected, the great majority of deaths occurred after middle age had been passed, 1,281 being of persons over 45 years of age.

BRONCHITIS.

Bronchitis caused 458 deaths in 1909, equivalent to 2.82 per 10,000 living, which is 25 per cent. below the mean rate of the previous five years. The rate for males was 3.18 and for females 2.40; of the total deaths 199 were stated to be due to acute and 259 to chronic bronchitis. This disease chiefly affects the extremes of life. In 1909, of those who died, 153, or 33 per cent., were under 5, and 253, or 55 per cent., over 65 years of age.

PNEUMONIA.

The total deaths from pneumonia were 868, equal to a rate of 5.34 per 10,000 living. Included in the total are 273 deaths which were ascribed to broncho-pneumonia. Among males the rate was 5.94, and among females 4.65 per 10,000 living of each sex respectively. The rate is 12.7 per cent. below the average of the previous five years. Pneumonia is more fatal to males than to females, as the following table, giving the rates by sexes since 1884, shows:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	2,032	7.68	1,301	5.98	3,333	6.91
1889-93	2,158	7.00	1,373	5.26	3,531	6.21
1894-98	2,514	7.43	1,528	5.15	4,042	6.37
1899-1903	3,191	8.81	2,000	6.15	5,191	7.55
1904-1908	2,816	6.98	1,824	5.14	4,640	6.12
1909	517	5.94	351	4.65	868	5.34

There has been little reduction in the mortality for some years. There was a drop after 1888, but it then steadily increased, with a few fluctuations, to the highest point on record in 1902. The rates, however, for the last seven years have been much below the figure for that year. Most deaths occur in the cold weather. In 1909 there were 306 deaths, or 35 per cent. in the three months June to August. Pneumonia is most destructive amongst young children and old persons.

DIARRHŒA AND ENTERITIS.

In 1909 there were ascribed to these two causes 1,486 deaths, or 9·14 per 10,000 living, which is slightly higher than the average of the preceding five years. For males the rate was 9·58 and for females 8·65 per 10,000 living of each sex. The following table gives the deaths and rates of males and females since 1884:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	3,412	12·89	3,048	14·02	6,460	13·40
1889-93	3,451	11·20	2,851	10·92	6,302	11·07
1894-98	4,042	11·94	3,638	12·26	7,680	12·09
1899-1903	4,422	12·22	3,901	12·00	8,323	12·11
1904-1908	3,714	9·20	3,000	8·46	6,714	8·85
1909	834	9·58	652	8·65	1,486	9·14

There was a large drop in the rate after 1888, probably due to the influence of the Dairies Supervision Act. During the next fifteen years there was a gradual increase, but in 1904 a very great improvement ensued, which has since been fairly maintained.

According to the Bertillon classification, deaths from these diseases are divided into two groups, one including children under 2 years of age, and the other all persons 2 years of age and over. In the first group there were 1,159, or 78 per cent. of the total, and in the second 327. The mortality rate of children under 2 years during 1909 was slightly higher than the average during the previous quinquennium, being 14·81 per 1,000 children living at those ages, as compared with 14·66 during 1904-8.

Of the total deaths from these causes, 661, or 44 per cent., occurred in the three summer months, January, November, and December; and 523, or 35 per cent., in February, March, and April. As a rule, over 50 per cent. of the deaths occur in the summer quarter.

DISEASES OF DIGESTIVE SYSTEM.

The deaths referred to these diseases numbered 2,285, equivalent to 14·07 per 10,000 living, the rates for males and females being 14·72 and 13·31, as compared with 13·64 and 12·57 respectively, the rates during the preceding five years. Deaths in this system were ascribed mainly to diarrhœa and enteritis, which have already been discussed. Gastritis caused 110 deaths, 53 being of children under 5 years of age; and 24 deaths were ascribed to gastric ulcer.

Cirrhosis of the liver was responsible for 111 deaths, the rate being ·68 per 10,000 living, which is about equal to the average of the five years 1904-8. This disease is much more prevalent amongst males than females—the rate for the former in 1909 being ·82, and for the latter, ·53 per 10,000 living in each sex, and is of interest in connection with the subject of intemperance. Appendicitis was the cause of 154 deaths, the rate being ·95 per 10,000, which is 26·6 above the average of the previous five years. The rise in the rate was due to increased mortality amongst females. The rate for the males was ·94, and for the females, ·96 per 10,000 living. This is contrary to the usual experience, which shows a much higher rate for males than for females.

BRIGHT'S DISEASE.

Of the 870 deaths due to diseases of the urinary system, 658 were caused by chronic nephritis or Bright's disease, and 45 by acute nephritis. Taking these two diseases together, the rate was 4.33 per 10,000 living, for males 5.14 and for females 3.40. In 1909 the rate was about equal to the quinquennial average. The changes in the rates of these two diseases, acute and chronic nephritis, will be seen below:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000
1884-88	626	2.37	386	1.78	1,012	2.10
1889-93	907	2.94	570	2.18	1,477	2.60
1894-98	1,291	3.81	821	2.77	2,112	3.33
1899-1903	1,659	4.58	996	3.06	2,655	3.86
1904-1908	2,056	5.10	1,199	3.38	3,255	4.29
1909	447	5.14	256	3.40	703	4.33

During the whole period covered by the table the rate, both for males and females, has been practically doubled. The male rate is about half as high again as for females. Not many persons under 35 die from nephritis, the proportions per cent. for 1909 being: under 35, 12.1; and over 35, 87.9.

DEATHS IN CHILD-BIRTH.

The number of deaths of women in 1909 from the diseases of child-bed was 252, corresponding to a rate of 5.8 per 1,000 births. Of these, 94 were due to puerperal septicæmia, 34 to accidents of pregnancy, and 124 to other puerperal accidents. On the whole, the deaths resulting from various diseases and casualties incident to child-birth are about 7 per 1,000 births, or 1 death to every 143 births. During the seventeen years ended 1909, the deaths were as follows:—

Cause of Death.	1893-1896	1897-1900	1901-1904	1905-1908	1909.	1893-1909.	
						Total Deaths.	Proportion due to each cause.
Accidents of Pregnancy ...	132	197	176	280	34	819	per cent. 17.92
Puerperal Hæmorrhage ...	142	159	135	106	17	559	12.23
Puerperal Septicæmia ...	369	362	378	295	94	1,498	32.77
Albuminuria and Eclampsia ...	100	126	113	141	43	523	11.44
Phlegmasia Alba Dolens ...	7	7	1	7	—	22	.48
Other Casualties of Child-birth	265	272	255	294	64	1,150	25.16
	1,015	1,123	1,058	1,123	252	4,571	100.00

Owing to the changes in classification of causes of death, the figures for the last five years are not quite on the same basis as those for previous years, but the differences are only slight.

During the seventeen years, 1893-1909, of the 4,571 women who died from diseases of child-birth, 4,099 were married, and 472 single, and as there were during this period 609,408 legitimate and 44,700 illegitimate births—reckoning cases of twins and triplets as single births—it follows that amongst married women the fatal cases average 6·7 per 1,000 births, or 1 in 149, and amongst single women 10·6 per 1,000, or 1 in 95.

VIOLENCE.

Of 15,840 persons who died during the year, 1,189, or 7·51 per cent., met with violent deaths. The rate per 10,000 living was 7·32 and equal to the mean rate during the previous quinquennium. The mortality rate from violence amongst males is nearly three times as great as for females, since of the 1,189 deaths of this kind, 902, equal to 10·36 per 10,000 living, were of males, and 287, equal to 3·81 per 10,000, were of females.

Accident or Negligence.

The number of fatal accidents during the year was 879, viz., 658 of males and 221 of females, equal to rates of 7·56 and 2·93 per 10,000 living of each sex. Accidental deaths have always been very numerous in the country. Of the total number registered during 1909, 234 occurred in the metropolis and 645 in the country districts, and as a rule about three-fourths of the accidents occur in the country, which contains about two-thirds of the total population.

The number of deaths from accident and the rates since 1884 are shown in the table below:—

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	3,550	13·41	944	4·34	4,494	9·32
1889-93	3,666	11·90	966	3·70	4,632	8·14
1894-98	3,498	10·33	1,095	3·69	4,593	7·23
1899-1903	3,432	9·47	1,103	3·39	4,535	6·59
1904-1908	3,143	7·79	1,055	2·97	4,198	5·54
1909	658	7·56	221	2·93	879	5·41

Thus, although the accident rate is still high, it has been steadily decreasing, and among males the fall has been more rapid than amongst females. In 1909 the rate showed a small decrease as compared with the average of the previous five years. For the years prior to 1894 the rates are really slightly lower than are shown in the table, because certain causes formerly classed as accidents are now recorded elsewhere.

Experience shows that out of every 1,000 accidents 165 are due to burns or scalds, 152 to drowning, 134 to vehicles and horses, 73 to weather agencies, 69 to falls, 68 to railways and tramways, and 56 to mines and quarries. Among males the greatest number are due to drowning, and among females to burns or scalds.

Suicide.

The number of deaths due to this cause during 1909 was 193, equal to a rate of 1.19 per 10,000 living, which is equal to the average of the previous five years. The number of males was 148, equal to a rate of 1.70 per 10,000 living, and of females 45, equal to 0.60 per 10,000, so that the rate for males is about three times as great as that of the females.

The tendency to suicide, as evidenced below, shows little variation.

Period.	Males.		Females.		Persons.	
	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.	Deaths.	Rate per 10,000.
1884-88	428	1.62	96	.44	524	1.09
1889-93	519	1.68	110	.42	629	1.11
1894-98	679	2.01	169	.57	848	1.34
1899-1903	651	1.80	142	.44	793	1.16
1904-1908	719	1.78	160	.45	879	1.16
1909	148	1.70	45	.60	193	1.19

The means usually adopted by men for self-destruction are shooting, poisoning, drowning, stabbing, or hanging. Amongst women, weapons are avoided, and poison has been the means most often used; the poisons selected being those which cause the maximum of pain, such as strychnine, arsenic, and phosphorus. Out of every 100 cases, during the last five years, 31 are by shooting, 28 by poisoning, 14 by hanging, 13 by stabbing, and 9 by drowning.

Experience shows that morbidity is largely influenced by the seasons. As regards suicides, this is most plainly seen amongst males, who are more inclined to attempt self-destruction in the last quarter of the year. For the ten years ended 1909 the proportion of male suicides per 1,000 during the first quarter of the year was 251; second, 237; third, 244; and fourth, 268. January, February, and December, the three hottest months of the year usually have the largest record of suicides.

Female suicides classified by quarters for the same period show the highest proportion during the first quarter of the year, the figures being as follow:—First quarter, 271 per 1,000; second, 226; third, 255; and fourth, 248.

SEASONAL PREVALENCE OF DISEASES.

The statement below shows the principal diseases, the deaths from which vary according to the seasons. The figures are based on the experience of the seven years 1903-9, and represent the proportion of deaths in each month per 1,000 deaths during the year from each cause. The actual returns were

adjusted on account of the unequal number of days in the various months to render the figures comparable.

Month.	Typhoid Fever.	In- fluenza.	Diph- theria and Croup.	Whoop- ing Cough	Phthisis.	Pneu- monia.	Bron- chitis.	Diarrhœa, Enteritis, and Dysentery	Bright's Disease.
January ...	144	43	43	77	80	50	47	159	77
February ..	134	17	71	83	70	45	43	129	74
March ...	152	17	88	66	75	47	43	111	68
April ...	137	30	121	104	79	61	59	112	78
May ...	114	43	129	96	85	75	83	73	81
June ...	69	84	125	84	88	104	120	39	89
July ...	38	100	104	101	93	119	132	29	101
August ...	25	175	97	100	95	138	146	23	94
September.	22	191	75	85	93	123	125	24	91
October ...	22	152	48	73	87	92	82	42	83
November.	44	91	53	63	81	80	71	112	83
December..	99	57	46	68	74	66	49	147	81
	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

The chief feature of the above table is the contrast between typhoid fever and diarrhœa and enteritis on the one hand, and influenza, pneumonia, and bronchitis on the other. In the first group the influence of the warm weather is the controlling factor, and in the second the cold weather. The warmest three months in the year are December, January, and February; and the coldest June, July, and August. Phthisis does not vary a great deal throughout the year, but the rates show that in the cold months the deaths are most frequent. Bright's disease also is most fatal in the cold weather.

CAUSES OF INFANTILE MORTALITY.

The mortality of infants in New South Wales was exceptionally low during the six years 1904-09. An upward movement in 1907, when the rate was higher than in any of the three preceding years, was followed by a decline in the following year, and the rate in 1909 was the lowest on record. Prior to 1904 there had been practically little change in the rate for thirty years, but from 1860 to 1873 the rate was lower than in the years immediately preceding 1904. At very early ages children are most susceptible to the attacks of disease, and the rates for preventable diseases are highest. In New South Wales, out of every 10,000 children born, nearly 1,000 die before reaching their fifth year.

As the death-rate of infants is usually looked upon as a reliable sanitary test, and as it is of interest to know the diseases most fatal to children, the following statement has been prepared. It shows the principal causes of death of children—under 1 per 1,000 births and under 5 per 1,000 living—

in 1909 and in the five years 1904-08, distinguishing deaths in the metropolis from those in the country districts.

Cause of Death.	Deaths under 1, per 1,000 births.						Deaths under 5, per 1,000 living.					
	Metropolis.		Country.		New South Wales.		Metropolis.		Country.		New South Wales.	
	1904-08.	1909.	1904-08.	1909.	1904-08.	1909.	1904-08.	1909.	1904-08.	1909.	1904-08.	1909.
Measles	0·2	0·1	0·3	0·0	0·3	0·1	0·2	0·1	0·2	0·0	0·2	0·0
Scarlet Fever	0·1	0·0	0·0	0·0	0·0	0·0	0·2	0·1	0·1	0·1	0·1	0·1
Whooping-cough	2·1	0·2	2·6	0·3	2·4	0·3	1·0	0·1	0·9	0·1	0·9	0·1
Diphtheria and Croup	0·2	0·1	0·2	0·3	0·2	0·2	0·5	0·5	0·5	0·7	0·5	0·6
Tuberculosis—Meninges.. .. .	0·7	0·9	0·3	0·2	0·5	0·4	0·5	0·5	0·2	0·1	0·3	0·3
,, Peritoneum	0·6	0·6	0·8	0·6	0·7	0·6	0·2	0·2	0·3	0·2	0·2	0·2
,, Other Organs	0·2	0·1	0·2	0·3	0·2	0·3	0·2	0·1	0·1	0·2	0·1	0·1
Syphilis	1·9	1·6	0·3	0·3	0·8	0·7	0·5	0·4	0·1	0·1	0·2	0·2
Meningitis	1·6	0·9	0·8	1·0	1·1	0·9	0·7	0·5	0·4	0·4	0·5	0·5
Convulsions	2·8	3·4	5·1	3·4	4·3	3·4	0·9	1·0	1·4	0·9	1·3	0·9
Bronchitis	3·1	2·3	3·8	3·3	3·6	3·0	1·0	0·6	1·1	0·9	1·1	0·8
Broncho-pneumonia	3·1	2·9	2·4	3·3	2·7	3·1	1·2	1·1	0·9	1·1	1·0	1·1
Pneumonia	2·1	1·7	1·7	2·4	1·8	2·1	0·9	0·8	0·8	0·9	0·8	0·8
Diarrhoea and Enteritis	27·9	26·9	17·3	19·1	20·9	21·9	8·5	7·8	5·5	5·8	6·6	6·5
Congenital Malformations	3·3	1·9	1·9	1·8	2·4	1·8	0·9	0·4	0·5	0·4	0·6	0·4
Infantile Debility	13·9	11·8	12·8	13·3	13·2	12·8	3·6	3·0	3·1	3·1	3·3	3·1
Premature Birth	18·0	18·7	14·8	13·2	15·9	15·2	4·4	4·4	3·5	3·0	3·8	3·5
All others	8·2	7·5	10·0	7·5	9·4	7·5	3·3	3·1	4·3	3·3	4·0	3·3
Total	90·0	81·6	75·3	70·3	80·4	74·3	28·7	24·7	23·9	21·3	25·5	23·5

There was a considerable improvement in 1909, as compared with the preceding five years, notwithstanding they were years of low mortality. Among children under 1, the reduction amounted to 7·5 per cent., and among children under 5, to 11·8 per cent.

It will be seen that the high mortality of infants is due to the deaths of children who from the beginning are greatly weakened either from immaturity or debility at birth. Of children under 1, the deaths from these causes in 1909 were equal to 29·8 per 1,000 births, or 40 per cent. of the total deaths of children at that age. A previous table shows that the mortality during the first month of life is about two-fifths of the total mortality during the whole of the first year, and 75 per cent. of this mortality is due to deaths from congenital debility or defects. After these, in 1909, came diarrhoea and enteritis, which were responsible for deaths to the extent of 21·9 per 1,000 births. The deaths from infectious diseases amounted to 0·6 per 1,000 births, of which whooping-cough caused 0·3. Respiratory diseases are rather fatal to children, bronchitis, in 1909, accounting for 3·0, broncho-pneumonia for 3·1, and pneumonia for 2·1 per 1,000 births, the last two causes showing increases in 1909. Convulsions had a death-rate of 3·4, tuberculous diseases of 1·3, and meningitis (not tuberculous) of 0·9 per 1,000 births.

It has already been pointed out that life in the metropolis is more unfavourable to children than in the country. The total excess mortality in the metropolis is 16 per cent., but the excess from diarrhoea and enteritis is 41 per cent.

Turning to the second part of the table, dealing with children under 5, it will be found that the most fatal causes are congenital debility, diarrhoea and enteritis, pneumonia, convulsions, and bronchitis in the order stated.

A further statement is given below in which the causes of death of illegitimate children are compared with those of legitimate children. The figures represent the deaths of children under 1 year per 1,000 births in the State as a whole in 1909.

Causes of Death.	Deaths under 1, per 1,000 Births.		
	Legitimate.	Illegitimate.	Total.
Measles	·1	·4	·1
Scarlet Fever ... ..	...	...	...
Whooping-cough	·3	...	·3
Diphtheria and Croup	·2	...	·2
Tuberculosis—Meninges	·3	2·1	·4
" Peritoneum	·6	1·4	·6
" Other Organs	·3	·4	·3
Syphilis	·4	5·2	·7
Meningitis	·9	1·0	·9
Convulsions... ..	3·3	5·2	3·4
Bronchitis	2·8	4·5	3·0
Broncho-pneumonia	2·9	5·9	3·1
Pneumonia	2·0	3·5	2·1
Diarrhoea and Enteritis	18·6	67·7	21·9
Congenital Malformations	1·7	3·1	1·8
Infantile Debility	11·5	32·3	12·8
Premature Birth	14·4	25·4	15·2
All others	6·7	20·1	7·5
Total... ..	67·0	178·2	74·3

The reasons for the greater mortality of illegitimate children are seen from this table. Excluding diseases which may be ascribed to inherent weakness, there is strong evidence of neglect or want of care as regards these unfortunates. Infantile debility showed 60·8 per 1,000 births as against the legitimate rate, 27·6. Diarrhoea and enteritis were 67·7 as compared with 18·6; respiratory diseases 13·9 as compared with 7·7; and syphilis 5·2 as compared with ·4. Among the epidemic diseases there was not a great difference.

SHIPPING.

FROM the year 1860 up to the present time, the trade and shipping returns of the State show a remarkable expansion. The rate of increase in shipping has been much faster than that of the population, despite the checks occasioned by unfavourable seasons, and the low prices ruling for staple products in the European markets.

The following table shows the number and tonnage of vessels arriving in and departing from New South Wales, at intervals of five years since 1860, together with the average tonnage per vessel at each period:—

Year.	Entered.		Cleared.		Average Tonnage per Vessel.
	Vessels.	Tonnage.	Vessels.	Tonnage.	
1860	1,424	427,835	1,438	431,484	300
1865	1,912	635,888	2,120	690,294	329
1870	1,858	689,820	2,066	771,942	373
1875	2,376	1,169,086	2,294	1,059,101	464
1880	2,108	1,242,458	2,043	1,190,321	586
1885	2,601	2,088,307	2,583	2,044,770	797
1890	2,326	2,340,470	2,317	2,294,911	998
1895	2,390	2,851,546	2,405	2,854,705	1,190
1900	2,784	4,014,755	2,714	3,855,748	1,432
1905	2,725	4,697,511	2,694	4,684,108	1,731
1906	2,893	5,283,719	2,883	5,275,031	1,828
1907	3,238	6,070,953	3,205	6,009,282	1,875
1908	3,196	6,298,784	3,219	6,303,125	1,964
1909	2,861	5,870,034	2,767	5,689,426	2,054

In the shipping records of New South Wales the total voyages of vessels are included, but no account is taken of ships of war, cable-laying vessels, and yachts, nor of vessels trading between ports in New South Wales. The tonnage quoted is net.

In 1860 the number of vessels required to conduct the trade of New South Wales was 1,424, while in 1908 the total had increased to 3,196. A more definite idea of the growth of trade is obtained, however, when it is stated that in 1860 the tonnage of the vessels that entered the ports of the State was 427,835, while in 1908 the tonnage was 6,298,784, or nearly fifteen times as large. In 1909 the number of vessels decreased to 2,861 and the tonnage to 5,870,034. This was the result of industrial unrest in the coal mines, which culminated in a general strike of all the coal-miners of the State in November of that year.

Since 1860 the size of vessels has been constantly increasing. In that year the average capacity of each vessel was 300 tons. In 1909 the figure was 2,054 tons, and vessels over 10,000 tons now enter the port of Sydney frequently.

The tonnage fluctuated from year to year, but with a constant tendency to increase, until in 1908 it reached the highest figure on record. Compared with other Australian States the shipping tonnage of New South Wales is the greatest, as it comprises about one-third of the total. Victoria comes next with nearly one-fourth.

The striking feature of the above table is the enormous expansion which has marked the years subsequent to the federation of the Australian States. In the interval—1900-09—the tonnage of the inward shipping increased 46 per cent., and of the outward 48 per cent.

NATIONALITY OF VESSELS.

The trade of the State is, to a very great extent, under the British flag, the deep-sea trade with the mother country and British possessions being in the hands of the shipowners of the United Kingdom, and the coasting trade chiefly in local hands. Since 1881 there has been a notable increase in foreign shipping, and at the present day the greater portion of the direct trade transacted with foreign ports is carried in vessels which are not British. This has been due to the appearance in the Australian trade of the steamers of the Messageries Maritimes in 1883, of those of the two German lines some time later, and more recently the vessels of the American, Japanese, and Dutch companies. From the table given below, showing the expansion in British and foreign shipping during the last forty-nine years, it will be seen that the British tonnage entered and cleared in 1860 was 689,251, or 80·2 per cent. of the total of 859,319 tons; while in 1880 the proportion was as high as 92·9, British vessels representing 2,259,924 tons out of a total of 2,432,779. In 1909, however, the British shipping had fallen to 83 per cent., the foreign tonnage having increased from 172,855 to 2,003,902 during the twenty-nine years which have elapsed since 1880:—

Year.	British.		Foreign.		Total.
	tons.	per cent.	tons.	per cent.	tons.
1860	689,251	80·21	170,068	19·79	859,319
1865	1,248,249	94·12	77,933	5·88	1,326,182
1870	1,333,410	91·22	128,352	8·78	1,461,762
1875	2,001,641	92·32	166,546	7·68	2,168,187
1880	2,259,924	92·89	172,855	7·11	2,432,779
1885	3,615,582	87·48	517,495	12·52	4,133,077
1890	4,030,472	86·95	604,909	13·05	4,635,381
1895	5,061,387	88·70	644,864	11·30	5,706,251
1900	6,702,106	85·15	1,168,397	14·85	7,870,503
1905	8,033,943	85·63	1,347,676	14·37	9,381,619
1906	8,820,080	83·53	1,738,670	16·47	10,558,750
1907	10,001,019	82·79	2,079,216	17·21	12,080,235
1908	10,583,435	83·98	2,018,474	16·02	12,601,909
1909	9,555,558	82·66	2,003,902	17·34	11,559,460

Of the tonnage set down as British, the larger portion is owned or registered in Australia and New Zealand. Prior to 1891 the returns did not discriminate between Australasian shipping and that belonging to other British colonies, and it is only after 1900 that Australian vessels can be separated from those of New Zealand; but in 1870, out of 1,333,410 tons of shipping entered and cleared under the British flag, 964,718 tons, or 72·3 per cent., belonged to British possessions, the great bulk being Australasian; in 1880, out of 2,259,924 tons of British shipping entered and cleared, 1,499,236 tons, or 66·3 per cent., belonged to British colonies. In 1900 the shipping from and to British possessions amounted to 6,702,106 tons (of which 3,590,284 tons, or 53·6 per cent., were Australasian) out of a total of 7,870,503 tons; while in 1909 out of a total of 11,559,460 tons, 4,119,789, or 35·6 per cent., were Australian.

The tonnage of the foreign vessels trading with New South Wales exhibits a great advance during the last nineteen years, from 13 per cent. of the total up to 17 per cent. Taking the year 1909, for which the total tonnage of the principal nationalities is given below, Germany stands first with 7·9 per cent. of the total, then Norway with 2·7 per cent., and France with 2·5 per cent. The only other nations whose carrying trade with the State is important are Japan, Holland, Italy, and the United States, with approximately 1 per cent. each.

The statement below shows the total shipping of the principal nationalities that entered and cleared the ports of New South Wales in 1890, 1900, and 1909, as well as the proportions per cent. In 1890 and 1900 New Zealand vessels are included with the Australian, and cannot be separated:—

Nationality.	Total Shipping Entered and Cleared New South Wales.						Percentage of each Nationality.		
	1890.		1900.		1909.		1890.	1900.	1909.
	Vessels.	Tonnage.	Vessels.	Tonnage.	Vessels.	Tonnage.			
Australian ..	3,223	2,453,300	3,305	3,590,284	2,692	4,119,789	52·93	45·62	35·64
New Zealand ..					633	986,919			8·63
British	965	1,577,172	1,469	3,111,822	1,373	4,438,850	34·02	39·54	38·40
French	76	137,466	159	249,302	147	292,042	2·97	3·17	2·53
German	152	229,413	144	351,064	323	913,161	4·95	4·46	7·90
Norwegian ..	23	17,404	81	81,924	194	206,066	·37	1·04	2·65
Dutch	11	12,121	23	43,537	51	103,843	·26	·55	·90
Italian	4	4,780	54	71,903	26	59,120	·10	·91	·51
Japanese .. ..	.....	.....	48	120,208	53	153,682	.....	1·53	1·37
United States ..	161	173,770	165	193,849	50	55,920	3·75	2·46	·48
Other Nationalities ..	28	29,052	50	56,610	68	115,068	·65	·72	·99
Total	4,643	4,635,381	5,498	7,870,503	5,628	11,559,460	100·00	100·00	100·00

TRADE WITH VARIOUS COUNTRIES.

Of the tonnage engaged during 1909 in the outward trade of New South Wales, 17·4 per cent. went to the United Kingdom. The tonnage of vessels

to other Australian States amounted to 45·7 per cent. of the whole, and to New Zealand 9·5 per cent. As regards the remainder, 6·9 per cent. went to other British possessions, and 20·5 per cent. to foreign countries. The following table shows the tonnage entered from and cleared for the United Kingdom, the British colonies, and some of the principal foreign countries, but it must be borne in mind that the figures represent the nominal tonnage or cargo space of the vessels carrying the goods, and not the actual weight of the goods carried, which latter information it is impossible to obtain.

A distribution of the traffic among the leading divisions of the British Empire and the principal foreign countries with which the State of New South Wales has commercial relations will be found below:—

Country.	Entered from and cleared for various Countries.					
	1890.		1900.		1909.	
	Vessels.	Tonnage.	Vessels.	Tonnage.	Vessels.	Tonnage.
British Empire—						
Australian States	2,974	2,544,905	3,082	3,861,154	3,032	5,480,022
United Kingdom	318	651,133	341	954,232	451	1,832,210
New Zealand	460	332,793	540	598,710	651	1,036,449
India and Ceylon	33	61,820	57	138,993	53	160,917
Hong Kong	64	92,523	68	121,933	47	87,282
Canada	4	5,103	41	76,477	39	124,748
Cape Colony	12	18,744	152	240,755	22	46,055
Natal ... ..	.....	.....	40	60,701	25	62,255
Fiji	66	68,003	65	64,125	77	103,848
Straits Settlements	24	33,994	19	31,212	68	151,228
Other British Possessions	13	9,079	60	58,101	73	94,131
Total, British	3,963	3,818,097	4,465	6,206,393	4,538	9,179,145
Foreign Countries—						
France	25	57,096	44	100,793	29	89,104
Germany	69	133,368	70	234,817	139	465,462
Belgium	10	14,426	13	28,129	16	42,083
United States	154	222,483	157	303,187	145	318,674
China	8	10,365	19	41,161	3	8,926
Japan	4	5,150	34	83,179	84	223,627
New Caledonia	100	97,823	118	143,867	66	116,452
Java	20	26,837	45	89,129	51	114,893
Philippine Islands	14	19,323	31	44,825	73	194,197
Hawaiian Islands ... ..	.....	.....	94	107,248	24	58,090
Peru	15	17,676	28	37,411	48	74,158
Chile	100	115,222	211	295,829	188	364,270
Other Foreign Countries	156	97,515	169	154,535	224	310,379
Total, Foreign	675	817,284	1,033	1,664,110	1,090	2,380,315
All Tonnage	4,643	4,635,381	5,498	7,870,503	5,628	11,559,460

It will be seen from the above figures that out of a total tonnage amounting to 11,559,460 in 1909, vessels from other Australian States provided 5,480,022, or 47·4 per cent. of the whole. The United Kingdom furnished the next largest tonnage with 1,832,210 tons, or 15·8 per cent., followed by New Zealand with 1,036,449 tons, equal to 9 per cent.; Germany with 465,462 tons, or 4 per cent.; Chile with 364,270 tons, or 3·2 per cent. of the total; and United States with 318,674 tons, or 2·8 per cent.

During the nineteen years—1890-1909—the tonnage of the United Kingdom increased by 1,181,077 tons, or more than 181 per cent., while

British tonnage as a whole increased by 5,361,048, or 140 per cent.; and the German tonnage by 332,094 tons, or nearly 249 per cent. There has been a large decrease in the tonnage of the United States since 1907, due to the discontinuance of a line of mail steamers which traded direct between San Francisco and Sydney.

The growth of trade with the East since 1900 is apparent from the large increase in the tonnage of vessels plying between this State and Japan, Java, and the Philippine Islands. A line of Dutch steamers to Java was established in 1907.

The tonnage for Chile shows a marvellous increase, although the shipping during 1909 was considerably less than in the previous year. The vessels from Chile and other South American countries arrive almost wholly in ballast to load coal, which is the chief article of export from New South Wales to South America. The trade with these countries was, therefore, seriously affected by the coal-miners' strike.

The great increase in German tonnage is due principally to the fact that Germans are amongst our largest wool buyers. Wool purchased by them at the Sydney wool sales is now sent by German steamers direct to Germany, instead of being transhipped at London as formerly.

In connection with the subject of increased shipping tonnage, attention might be drawn to the fact that some of the steamship companies trading to New South Wales are subsidised by various governments for carrying mails between Australia and their respective countries. The Norddeutscher Lloyd, for example, receives an annual subsidy of £82,884, or 4s. 9d. per nautical mile for the mail service between Australia and Germany. The Japanese Government subsidises its steamers trading to Australia to the extent of about £44,000 per annum, and the Messageries Maritimes receives a subsidy of 8s. 4d. per mile.

Of the British lines the Peninsular and Oriental Steam Navigation Company is in receipt of one subsidy from the Imperial Government for the conveyance of mails to East India, China, and Australia. The Commonwealth Government has made a contract with the Orient Steam Navigation Company, Limited, for ten years from the 1st February, 1910, by which the Commonwealth has agreed to pay a subsidy of £170,000 per annum for a fortnightly service between Australia and the United Kingdom, provided that each mailship is at least 11,000 tons gross registered tonnage, and capable of steaming at least 17 knots. Space for certain cargo is to be provided, and the steamers fitted with wireless telegraphy installation when a station has been established on the Australian coast. The Commonwealth flag is to be flown, and only white labour employed on these vessels.

The Canadian-Australian Steamship Company is also subsidised for carrying the mails to and from Australia.

STEAM AND SAILING VESSELS.

The records prior to the year 1876 do not distinguish the steamers from the sailing vessels, but the modern tendency to supersede sailing vessels by steam has been abundantly apparent in the thirty-four years which have since elapsed. In 1876 the steam tonnage was 912,554, as compared with 1,215,171 tons of sailing vessels, being 42.9 per cent. and 57.1 per cent. respectively. The relative positions have long since been transposed, for the tonnage of sailing ships in 1909 was lower than the figures of 1876, being 916,853 tons, or 7.9 per cent. of the total shipping, as compared with 10,642,607 tons of steam, or 92.1 per cent. of the whole. The steam tonnage

in 1909 was, therefore, nearly twelve times as great as in 1876. The progress of the tonnage of each class will be seen from the following table:—

Year.	Steam.		Sailing.		Proportion of Steam to Total Tonnage.	
	Entered.	Cleared.	Entered.	Cleared.	Entered.	Cleared.
	tons.	tons.	tons.	tons.	per cent.	per cent.
1876	473,821	438,733	600,604	614,567	44·10	41·65
1880	803,935	746,437	438,523	443,884	64·71	62·71
1885	1,413,551	1,378,292	674,756	666,478	67·69	67·41
1890	1,759,475	1,768,848	580,995	526,063	75·18	77·08
1895	2,132,753	2,161,176	718,793	693,529	74·79	75·71
1900	3,206,657	3,140,449	808,098	715,299	79·87	81·45
1905	4,051,884	4,042,703	645,627	641,405	86·26	86·31
1906	4,659,821	4,658,235	623,898	616,796	88·19	88·31
1907	5,257,019	5,228,469	813,934	780,813	86·59	87·01
1908	5,822,060	5,737,747	476,724	565,378	92·43	91·03
1909	5,388,231	5,254,376	481,803	435,050	91·79	92·35

The advantage offered by the New South Wales trade to shipowners is illustrated by the rather peculiar feature of the large amount of tonnage coming to the State in ballast, and the small amount leaving without cargo. Many vessels arriving in ballast come from the ports of the neighbouring States, where they have delivered a general cargo, and, having been unable to obtain return freight, have cleared for Newcastle to load coal. The largest amount of tonnage entered in ballast in any one year since 1876 was in 1907, when it reached 1,980,322 tons. In 1909 the tonnage entered in ballast amounted to 1,212,660 tons. The tonnage entered and cleared in ballast for the years shown was:—

Year.	Steam (Ballast).		Sailing (Ballast).		Proportion of Ballast to Total Tonnage.	
	Entered.	Cleared.	Entered.	Cleared.	Entered.	Cleared.
	tons.	tons.	tons.	tons.	per cent.	per cent.
1876	16,709	4,022	246,244	13,834	24·47	1·70
1880	73,006	3,015	144,757	13,204	17·53	1·36
1885	146,501	11,181	198,865	42,200	16·54	2·61
1890	309,780	3,767	228,699	18,620	23·01	·98
1895	375,589	26,802	466,401	6,630	29·53	1·17
1900	791,803	133,159	505,030	1,644	32·30	3·50
1905	882,539	127,268	466,774	16,956	28·72	3·08
1906	1,191,875	186,016	415,718	8,801	30·43	3·70
1907	1,341,336	192,027	638,986	24,939	32·62	3·61
1908	1,320,012	211,895	339,772	16,973	26·35	3·63
1909	868,065	209,817	344,595	18,134	20·66	4·01

Although the proportion of tonnage entered in ballast fluctuated between 16·5 per cent. in 1885 and 32·6 per cent. in 1907, the tendency is for the figure to stand at about one-quarter of the whole. The tonnage cleared in ballast is very small; up to 1900 it was under 2 per cent., and is now 4 per cent. The reason why so small a proportion of Australian shipping clears in ballast is principally to be found in the great and varied resources of the country; for when the staple produce—wool—is not available, cargoes of wheat, coal, silver, copper, live-stock, frozen meat, butter, fruit, tallow, leather, skins and hides, and other commodities may generally be obtained, and owing to the great distance of the ports of the Commonwealth from the commercial centres of the old world, vessels are not usually sent out without at least some prospect of securing a return cargo.

PORTS.

No other seaport of the State can be compared with either Sydney or Newcastle, though Wollongong now maintains a trade of some consequence, especially in coal; and of late years the importance of Eden (Twofold Bay), has increased.

The progress of the shipping trade of Sydney has been very uniform, the increase from the year 1860 being at an average rate of about 5·6 per cent. per annum, and from 1890 at the rate of 5·5 per cent. per annum. The vessels registered as entered at Sydney considerably exceed in tonnage those cleared. To account for this it is only necessary to state that vessels leaving Sydney for Newcastle for the purpose of shipping coal are reckoned as departures from Newcastle, and not from Sydney. For this reason the clearances of Newcastle uniformly exceed the arrivals, as will be noticed in the following statement, which shows the shipping entered and cleared at both Sydney and Newcastle for quinquennial periods from 1860 to 1905, and for each of the last five years:—

Year.	Sydney.		Newcastle.	
	Entered.	Cleared.	Entered.	Cleared.
	tons.	tons.	tons.	tons.
1860	292,213	275,630	111,274	134,480
1865	423,570	421,049	189,620	248,769
1870	385,616	364,758	283,091	383,242
1875	590,700	468,423	510,902	573,626
1880	827,738	641,996	400,598	516,480
1885	1,608,169	1,283,888	452,946	722,865
1890	1,644,589	1,356,632	625,398	842,180
1895	2,027,951	1,669,654	727,834	1,048,400
1900	2,716,651	2,109,739	1,160,758	1,523,976
1905	3,401,013	2,922,461	1,182,267	1,586,134
1906	3,751,458	3,277,907	1,404,844	1,762,472
1907	4,273,995	3,717,792	1,657,234	2,044,706
1908	4,409,021	3,642,793	1,746,070	2,408,946
1909	4,507,187	3,795,231	1,182,031	1,676,759

The total tonnage of Sydney increased by 902,000 tons between 1860 and 1880, and by 3,357,000 tons between 1880 and 1900, while during the last four years the increase has amounted to 1,978,944 tons.

The returns for Newcastle also show a great advance, the tonnage entered having considerably more than doubled between 1895 and 1908. The industrial strife in the coal-mines caused the marked decrease during 1909. As might, perhaps, be anticipated from the nature of the trade of the two ports, a large number of sailing vessels visit Newcastle, the proportion of tonnage being over 22 per cent. In Sydney the proportion is 3·3 per cent.

The other ports of the State are of minor importance compared with Sydney and Newcastle, the total tonnage of all of them amounting only to 180,816 entered and 217,436 cleared, or about 3·4 per cent. of the whole. In 1909 the tonnage of vessels which entered Wollongong direct from places outside the State totalled 72,994 tons; while at Eden the shipping entered amounted to 86,468 tons. The shipping cleared at Wollongong had an aggregate tonnage of 123,761, and at Eden (Twofold Bay) 61,417. The bulk of the trade of Twofold Bay is with Tasmania.

During recent years a fairly large trade has sprung up between Brisbane and the northern rivers—Clarence and Richmond. In 1909 the total

tonnage of vessels entered at these rivers from places beyond the State was 6,073, and of vessels cleared 15,708. The remaining ports at which shipping was recorded, and the tonnage of vessels cleared thereat, were—Bellambi 35,913 and Port Stephens 1,991.

That Sydney is one of the chief ports of the world is evident from a comparison with the returns of other ports, as shown by the following table. The figures quoted relate to the latest years available, all being subsequent to 1907:—

Port.	Tonnage Entered.	Port.	Tonnage Entered.
<i>Sydney</i>	4,507,187	Malta	4,036,752
Melbourne	4,362,474	Singapore	6,761,019
Brisbane	1,358,721	Hong Kong	11,164,386
Port Adelaide	2,549,279	Capetown	1,709,062
Fremantle	1,229,302	Montreal	1,357,948
Hobart	736,732	Halifax	1,172,702
Auckland	554,847	Victoria (B.C.)	1,353,819
London	11,194,073	Hamburg	10,886,384
Liverpool	7,973,123	Marseilles	6,773,130
Cardiff	6,027,897	Havre	3,318,366
Tyne Ports.	6,842,887	Antwerp	11,218,253
Hull	3,249,121	Rotterdam	9,525,628
Southampton	4,043,703	Copenhagen	2,984,440
Glasgow	1,944,520	New York	11,363,345
Leith	1,272,572	Boston	3,018,888
Calcutta	1,367,980	Buenos Ayres	5,388,251
Bombay	1,764,618	Shanghai	4,420,762
Colombo	6,527,286	Monte Video	6,805,254
Gibraltar	4,586,142		

It will be seen from the above list that Sydney stands sixteenth in importance. The figures for Singapore, Hong Kong, and Shanghai are large on account of their extensive distributing trade, and because they are situated on the route to many trading centres.

SHIPPING REGISTERED.

At the end of the year 1909 there were 1,015 steamers and sailing vessels, representing 117,991 tons net, registered as belonging to the port of Sydney. Of these, 607 were steamers, collectively of 74,784 tons net. There were 55 steamers of 3,732 net tons, and 48 sailing vessels on the register at Newcastle, their net tonnage being 7,840. The total tonnage registered in the State was 129,563, of which 78,516 was steam tonnage. These figures are

exclusive of lighters, of which there were 237, of a total tonnage of 10,199, registered at Sydney; and 23, of an aggregate tonnage of 1,660, at Newcastle.

The total new tonnage registered in New South Wales during the last ten years was:—

Year.	Steamers.		Sailing Vessels.		Total.	
	No.	Tons.	No.	Tons.	Vessels.	Tons.
1900	23	10,445	31	4,289	54	14,734
1901	20	7,063	28	5,166	48	12,229
1902	38	6,020	25	1,995	63	8,015
1903	42	6,424	28	1,742	70	8,166
1904	23	6,082	20	716	43	6,798
1905	37	3,018	11	1,103	48	4,121
1906	40	11,249	14	3,243	54	14,492
1907	35	7,664	15	3,294	50	10,958
1908	42	4,660	14	4,798	56	9,458
1909	43	6,646	5	1,783	48	8,429

During the year 1909 two vessels were sold to foreign buyers, and in consequence were removed from the register of the State. Sales were also made to British subjects of 68 vessels, with a total tonnage of 7,886, which remained on the registers at Sydney and Newcastle.

The only ports at which vessels are registered are Sydney and Newcastle, and the following statement shows the number of steam and sailing vessels registered at each port on the 31st December, 1909, classified according to their tonnage:—

Tonnage.	Sydney.				Newcastle.			
	Steam.		Sailing.		Steam.		Sailing.	
	Vessels.	Tons.	Vessels.	Tons.	Vessels.	Tons.	Vessels.	Tons.
Under 50	351	6,742	256	3,802	42	983	21	566
50 and under 100 ...	103	7,395	79	6,008	9	602	13	926
100 „ 200 ...	71	9,859	22	3,170	2	217	2	244
200 „ 300 ...	22	5,549	14	3,543	...	.....	2	510
300 „ 400 ...	18	6,085	15	5,201	...	.....	4	1,393
400 „ 500 ...	8	3,499	2	896	...	.....	3	1,312
500 „ 600 ...	12	6,649	2	1,108	1	552	2	1,436
600 „ 1,000 ...	8	6,191	9	7,578	...	.....	...	.....
1,000 „ 1,400 ...	4	4,857	7	8,305	1	1,378	...	.....
1,400 „ 1,800 ...	6	9,502	1	1,466	...	.....	1	1,453
1,800 and over... ..	4	8,456	1	2,130	...	.....	...	.....
Total	607	74,784	408	43,207	55	3,732	48	7,840

CONSTRUCTION OF VESSELS.

The years 1883 and 1884 were marked by great activity in the construction both of sailing and steam vessels, 50 sailing and 52 steam vessels having been built in 1883, and 39 sailing vessels and 64 steamers were built in the subsequent year. Trade then became less active, and the industry showed a tendency to die out. In 1890 it had fallen lower than in any of the preceding years, and there has been little improvement since, the tonnage of sailing vessels built during 1908 being only 146, and of steamers 943. In 1909 one cutter of 3 tons was built, and 22 steamers with a total tonnage of 835.

Schooners and ketches are the principal classes of sailing vessels built in the State, the average tonnage of each class being considerably under 100 tons burden. The tendency to supplant sailing vessels by steamers, and the substitution of iron for wood for the frames and hulls of vessels, have given a check to the wooden ship-building industry, which at one time promised to grow to important dimensions.

Up to 1905 no reliable data were procurable as to the number and tonnage of vessels built abroad for the New South Wales local trade. In 1909, however, the Customs returns show that 10 vessels valued at £195,900 were imported from abroad. A further idea of the large number added to the New South Wales register from ports other than Australian may be gathered from the registration of vessels constructed abroad. During the last five years there have been 42 steam vessels of 27,176 total tonnage, and 27 sailing vessels of 11,450 total tonnage registered, which were not built in the State.

THE NAVIGATION DEPARTMENT.

The Navigation Act, 1901, invests the Superintendent of the Department of Navigation with power to carry out the provisions of the Act relating to steam navigation. The Superintendent has the general superintendence of all matters within the jurisdiction of the State relating to the issue, suspension, and cancellation of certificates of competency and of service; the preservation of ports, harbours, rivers, &c.; the licensing, appointment, and removal of pilots; the regulation of light-houses, lights, &c.; the placing or removing of moorings; the granting and regulation of licenses to ballast lighters; the licensing and regulation of watermen, boatmen, and boats plying for hire; steam and other ferry boats; harbour and river steamers; safety and prevention of accidents; unseaworthy ships; life-saving appliances, lights, fog-signals, and sailing rules; and the accommodation for seamen.

Courts of Marine Inquiry appointed under the Navigation Act conduct inquiries as to shipwrecks and other casualties affecting ships, or as to charges of incompetency or misconduct on the part of the masters, mates, or engineers of ships, either in the case of British ships on or near the coast of New South Wales, or on a ship registered in New South Wales, or in the course of a voyage to New South Wales. Appeals and references under the Act are also heard and determined. One or more District Court Judges constitute the Court, assisted by Assessors who have the power to advise, but not to adjudicate, on any matter before the Court.

The pilots of New South Wales are Government officers in the receipt of a fixed salary. During the year 1909 there were 18 pilot vessels with 34 pilots; 2,672 vessels were piloted in and out of port, and harbour removals of 1,087 vessels were made. The Department of Navigation also subsidises tugs for the purpose of towing vessels in and out of ports other than Sydney and Newcastle. In 1909 nine tugs, receiving subsidies amounting to £3,117, towed 887 vessels in, and 1,127 vessels out of these ports.

The certificates issued by the Navigation Department to marine officers in 1909 were as follows:—Master, 54; Mate, 61; Engineer, 141; Marine Surveyor, 16; and Pilotage Exemption, 62.

THE SYDNEY HARBOUR TRUST.

The Sydney Harbour Trust Act, which came into force on the 1st November, 1900, was passed in order to make better provision for the management of the port of Sydney, to establish a board of commissioners, and to confer on such body certain powers in relation to the port, including power to levy and collect certain dues and charges, and to purchase and resume lands; to vest certain property in the commissioners; and for various other purposes.

The three commissioners were created a body corporate, each member of the board being entitled to hold office for seven years. They have control of the port and shipping, beacons, buoys, wharves, docks, &c., and the preservation and improvement of the port generally is vested in them. The returns of the Sydney Harbour Trust show that 8,944 vessels engaged in coastal, interstate and oversea trade entered the Port of Sydney during 1909; the total tonnage was 6,901,057 tons.

QUARANTINE.

Since the 1st July, 1909, the administration of all matters relating to quarantine has been under the control of the Federal Minister for Trade and Customs. The Quarantine Act, 1908, defines the vessels which shall be subject to quarantine, and provides for the exclusion, detention, observation, segregation, isolation, protection, and disinfection of vessels, persons, goods, animals, or plants. The stringent clauses of the Act should prevent the introduction or spread of diseases or pests in the Commonwealth. The particulars of vessels examined by the Government Health Officers at Sydney and Newcastle, during the last ten years, are shown in the following table:—

Year.	Vessels.		Persons.		
	Total.	Detained for special action.	Passengers.	Crews.	Total.
1900	783	265	7,406	31,657	39,063
1901	883	304	13,648	43,141	56,789
1902	804	144	17,449	44,542	61,991
1903	762	153	8,602	34,723	43,325
1904	655	159	8,700	29,737	38,437
1905	756	146	8,060	31,603	39,663
1906	871	141	12,016	42,376	54,392
1907	969	160	9,656	39,298	48,954
1908	740	44	7,300	31,477	38,777
1909	628	67	8,227	29,075	37,302

IMPERIAL NAVAL DEPÔT.

Garden Island, situated in Port Jackson, is the Imperial Naval Depôt for the Australian Squadron. It was transferred to the Imperial authorities for this purpose, and buildings were erected thereon by the New South Wales Government under an agreement by which Sydney was made the headquarters of the Australian fleet, and the Imperial authorities relinquished all claim to certain property owned by them.

DOCKS AND WHARVES.

Adequate accommodation is provided both by the Government and by private enterprise for fitting and repairing ships in the State. At Sydney there are four graving docks, five floating docks, and four patent slips. At Newcastle there are three patent slips; besides which there are other docking and building yards in different parts of the State for the convenience of coasters and small craft.

The Sutherland Graving Dock at Cockatoo Island, Sydney, the property of the Government, is one of the largest single docks in the world; it is 608 feet long and 84 feet broad, and is capable of receiving vessels drawing 32 feet of water. The Fitzroy, another large Government graving dock on Cockatoo Island, is capable of receiving vessels drawing 21 feet 6 inches of water. The gross tonnage of vessels docked at the two Government docks during the year 1909 amounted to 79,170 tons. As the greater portion

of this tonnage consisted of men-of-war and Commonwealth or State vessels, on which no docking dues are charged, the receipts are comparatively small; the amount for the year ended 30th June, 1910, was £1,114. In addition the Morts' Dock and Engineering Company own two large graving docks, one at Balmain and the other at Woolwich, the latter being 675 feet long, and 75 feet on floor, and capable of receiving vessels with a draught of 28 feet.

For natural facilities for shipping Sydney stands unrivalled. The water deepens abruptly from the shores, so that the largest vessels may be berthed alongside the wharves and quays. At low tide the depth of water ranges between 12 and 30 feet. Practically the whole of the wharfage at Port Jackson is now under the control of the Sydney Harbour Trust. Along the shores of Sydney Cove magnificent wharves have been constructed, which are capable of berthing vessels of 14,000 tons register. The total length of berths on the southern shore of Sydney Harbour, from Woolloomooloo Bay to White Bay, is 46,374 feet, including berths used by ferry services, 1,944 feet.

At Pyrmont, Darling Harbour, Miller's Point, and Woolloomooloo Bay the wharves are fitted with steam cranes and other appliances for the speedy discharge of the largest ships constructed, and at Pyrmont the railway line is laid down and elevators have been erected to facilitate the loading of wheat. Powerful shipping appliances and roomy stores, as well as electric lighting, are to be found on all the important wharves, which are extended and improved in order to keep pace with the increase in the shipping of the port.

Newcastle is also a well-equipped port, where vessels of 8,000 tons can be safely berthed; and every modern steam and hydraulic appliance for loading coal is found on its wharves. The Government owns nearly all the wharfage.

At the harbour of Wollongong vessels drawing 11 feet 6 inches of water can be berthed, and a large cargo shed, coal shoots, cranes, and derrick are available for the use of shipping. Staiths, cranes, and other coal-shipping appliances have been erected at Bulli, and other places. Private as well as Government wharves are found at all the chief centres of population along the rivers of the State, and all ports with a trade of any importance have their jetties and shipping facilities, including six Government docks.

LIGHTHOUSES.

The coast of New South Wales, which is about 700 miles in length, is well provided with lighthouses, the number at the end of 1909 being 28, as shown below:—

Name.	South Latitude.	Fixed, Flashing, or Revolving.	Colour of Light.	Distance visible (See note).
		<i>From South to North.</i>		Nautical miles.
Green Cape	37 16	Revolving—Flash 50 sec.	White	19
Twofold Bay (Eden) (Look-out Point).	37 4	Fixed	Red	7
Montagu Island—Summit ..	36 15	Fixed and Flashing—Fixed 33 sec., eclipse 16 sec., flash 5 sec., eclipse 16 sec.	White	22
Ulladulla (Warden Head) ..	35 22	Fixed	„	12

Name.	South Latitude.	Fixed, Flashing, or Revolving.	Colour of Light.	Distance visible (See note).
		<i>From South to North.</i>		Nautical miles.
Jervis Bay (Point Perpendicular).	35 5	Group Flashing—Flash $\frac{3}{4}$ sec., eclipse 2 sec., flash $1\frac{1}{4}$ sec., eclipse 2 sec., flash $\frac{3}{4}$ sec., eclipse $13\frac{1}{4}$ sec.	White (Incandescent petroleum)	24
Crookhaven River ...	34 54	Fixed	Red	7
Kiama... ..	34 40	”	Green (gas) ...	9
Wollongong	34 26	”	White (gas)† ...	10
Cook River (Botany Bay) ...	33 57	”	White ... ..	...
Port Jackson, Sydney— Macquarie (Outer South Head).	33 51	Revolving—Flash every min.	White (electric)	26
Hornby (Inner South Head).	33 50	Fixed	White (gas) ...	15
Broken Bay (Barrenjoey) ...	33 35	”	Red	15
Norah Head	33 17	Flashing—Flash $\frac{1}{4}$ sec. duration, eclipse $4\frac{1}{2}$ sec.	White	18
Port Hunter, Newcastle— Nobby's Head (Summit).	32 55	Fixed	”	17
Port Stephens—Stephens' Point.	32 45	Revolving—Red & white light alternately, short eclipse between the two colours.	Red and White alternately.	W. 17 R. 12
Nelson Head (Summit)..	...	Fixed	White and Red*	8
Sugarloaf Point (Seal Rocks)	32 26	Revolving—Flash every $\frac{1}{2}$ min.	White (Incandescent petroleum)	23
Forster, Cape Hawke (anchorage).	32 11	Fixed	Green (acetylene gas).	5
Crowdy Head (Summit) ...	31 51	”	White and Red†	12
Tacking Point	31 29	”	White	12
Smoky Cape	30 56	Group Flashing—Flash 2 sec., eclipse 2 sec., flash 2 sec., eclipse 2 sec., flash 2 sec., eclipse 20 sec.; triple flash every 30 sec.	”	28
Lagger's Point, Trial Bay ..	30 53	Fixed	”	5
Coff's Harbour Jetty ...	30 18	Fixed	Red	5
South Solitary Island (Summit).	30 12	Revolving—Flash every $\frac{1}{2}$ min.	White (Incandescent petroleum)	20
Clarence River	29 25	Fixed	White	12
Richmond River (2)... ..	28 51	”	”	12
Cape Byron	28 37	Flashing—Flash $\frac{1}{4}$ sec. duration, eclipse $4\frac{1}{2}$ sec. duration.	”	26
Tweed River (Fingal Head)	28 11	Fixed	White	12

* The light shows white to seaward, and over Entrance Shoal, red within the shoal, and up the Channel as far as Nelson Head, white up the Harbour.

† Showing red over Mermaid Reef, and from reef to land.

‡ Shows red over Bellambi Reef.

Distance visible.—The distance is calculated visible to an observer whose eye is elevated 15 feet from the sea level.

There are also numerous lighted beacons and leading lights in the ports of Sydney, Newcastle, Ulladulla, Clarence River, and Wollongong, for the safety of harbour navigation. The Smoky Cape group-flashing light (visible 28 miles at sea), the Macquarie revolving electric light, on the South Head of Port Jackson, and the Cape Byron group-flashing light, each visible 26 miles, are amongst the most powerful lights in the world. In addition, the light on Point Perpendicular is visible 24 miles; at Seal Rocks, visible 23 miles; and at Montagu Island, visible 22 miles.

SHIPWRECKS.

The State seaboard is particularly free of danger to vessels, and where reasonable precautions were taken wrecks have been very rare. There are two lifeboat stations on the coast, one at the Sydney Heads, and the other at Newcastle; and the whale-boats at the various pilot stations have been suitably fitted for service, if required. The steam tugs subsidised for the towing of ships in and out of port, are also available for the purpose of rendering assistance to vessels in distress; and life-saving appliances are kept at certain places along the coast.

The wrecks reported in 1909 numbered 5, and of the persons comprising the crew and passengers, 18 lives were lost. Four of the wrecked vessels were British merchant vessels and one foreign. Of the British shipping all were steam, and the foreign vessel was sailing. The total tonnage of British vessels was 520, and the value, including cargoes, £18,750. The tonnage of the foreign vessel was 1,364, and the value £2,000.

During the last five years there have been 43 British and foreign vessels wrecked on the shores of New South Wales, or otherwise within the jurisdiction of the State. Of these 28 were steam and 15 sailing vessels, the total tonnage represented being 23,125. The number of lives lost was 46, the highest number in any year being 18 in 1909.

WAGES OF SEAMEN.

The following table shows the average wages, per calendar month, in 1909, paid to white crews of British ocean-going steamers trading with New South Wales, and also the rates for white crews of steamers engaged in the Interstate trade. The rates have been obtained from the ship's articles:—

Capacity.	Average monthly wages. White crews.	
	Ocean-going steamers.	Interstate steamers.
Navigation—	£	£
Officers, chief	10½ to 17	12 to 17
„ second	7 to 14	12 to 14
„ third	6¾ to 11	10 to 11
„ fourth	4½ to 8	8
Seamen	3½ to 7	7
Engineer's Department—		
Engineers, chief	15 to 27½	16 to 28½
„ second	11 to 19	14 to 20
„ third	8 to 15	14 to 16
„ fourth	6½ to 12	12 to 13
Firemen	4 to 9	9
Trimmers	3½ to 7	7
Cooking and Attendance—		
Cooks	5½ to 12	8 to 13½
Stewards, chief	6 to 14	8 to 14
„ assistant	2 to 7½	2 to 7
Stewardesses	3 to 5	2 to 5

The figures quoted in this table are average rates, but the wages paid on the ocean-going passenger steamers are in nearly every case higher than on the cargo steamers which also carry passengers. The top rates shown are the highest paid on the passenger steamers, while the bottom rates are a fair average on the cargo steamers.

COMMERCE.

THE trade of New South Wales is the largest of all the States of the Australian Commonwealth, and, relatively to population, compares most favourably with that of any other country in the world. The growth of the trade of the State during the last fifty years will be seen from the table appended, the figures in which represent the values as furnished by the Customs Department.

As regards imports, the value quoted is the amount on which duty is payable or would be payable if the duty were *ad valorem*. The value of goods subject to duty is taken to be the fair market value in the principal markets of the country whence the same were exported, with an addition of 10 per cent. This addition of 10 per cent. is supposed to cover the cost of packing, insurance, freight, and all other charges. The value of goods exported is the value in the principal markets of the State in the ordinary commercial acceptance of the term. These values are verified by the customs officers with the prices ruling from day to day in the local markets:—

Period.	Imports (Average Annual Value).	Exports (Average Annual Value).	Total Trade.	
			Value.	Per Inhabitant.
	£	£	£	£ s. d.
1860-64	8,778,305	7,780,512	16,558,817	45 12 6
1865-69	8,936,766	9,473,835	18,410,601	42 3 9
1870-74	10,191,726	10,999,660	21,191,386	40 4 8
1875-79	14,399,377	13,316,609	27,715,986	43 15 4
1880-84	19,582,946	17,701,505	37,284,451	46 9 0
1885-89	21,662,848	19,040,971	40,703,819	40 13 6
1890-94	20,536,781	22,692,220	43,229,001	36 18 10
1895-99	21,669,230	24,957,958	46,627,188	36 2 0
1900-04	26,903,925	27,776,457	54,680,382	39 3 0
1905	29,424,008	36,782,006	66,206,014	44 15 6
1906	34,665,363	45,638,044	80,303,407	53 0 7
1907	39,456,195	43,774,978	88,231,173	56 14 11
1908	37,642,746	40,985,759	78,628,505	49 9 11
1909	38,034,962	41,837,397	79,872,359	49 3 4

The trade has grown steadily in volume throughout the whole period. From 1904 it advanced by considerable annual increases, until in 1907 it reached the record of over £88,200,000. In 1909 the trade was worth £49 3s. 4d. per head, and, although this value is less than in the preceding three years, it exceeds the values in the sixties, when the population was small and prices were high, and in the eighties, which were years of heavy borrowing.

The value of the exports from year to year forms the surest index of the progress of a country like New South Wales, and the result of a rise or fall in the value of the staple commodities, or of a depression in production, may be readily traced in the corresponding rise or fall in the export values. The imports must be considered in connection with loans raised outside the State by the State and by local governing bodies, as these loans reach the State in the shape of goods which are shown in the import returns. Thus 1881 to 1891, and 1899 to 1902, were years of large borrowing. In the years 1900 and 1901 also the imports underwent abnormal expansion on account of the loading-up by merchants in anticipation of the Federal tariff. Bearing these facts in mind it will be seen that the volume of trade has increased by over 70 per cent. during the last ten years.

Of the total trade shown in the above table about 40 per cent. is carried on with the other Australian States, the remaining 60 per cent. representing the direct oversea trade with countries outside Australia. For reasons stated below, the returns of interstate trade are rather misleading. It has, however, been customary for years to make up these returns, and, as the information is required by the States, the figures must be taken into account Distinguishing the imports according as they were interstate or directly oversea, the following are the annual values for the period 1885 to 1909:—

Period.	Imports (Average Annual Value).			Per head of Population.	
	Interstate.	Oversea.	Total.	Oversea.	Total.
	£	£	£	£ s. d.	£ s. d.
1885-89	8,148,314	13,514,534	21,662,848	13 10 2	21 12 11
1890-94	8,847,672	11,689,109	20,536,781	9 19 9	17 11 0
1895-99	9,435,784	12,233,446	21,669,230	9 9 5	16 15 7
1900-04	11,485,186	15,418,739	26,903,925	11 0 9	19 5 3
1905	14,938,885	14,485,123	29,424,008	9 15 11	19 18 0
1906	17,061,860	17,603,503	34,665,363	11 12 6	22 17 10
1907	18,595,804	20,860,391	39,456,195	13 8 4	25 7 6
1908	17,814,260	19,828,486	37,642,746	12 9 8	23 13 11
1909	17,146,943	20,888,019	38,034,962	12 17 2	23 8 3

The figures shown in this table for 1904 and subsequent years are not quite on the same basis as for the previous years, the oversea imports for which should be increased, and the interstate imports decreased by a corresponding amount, on account of transshipments. Until September, 1903, it was the practice of the Customs office to ignore transshipments, so that goods which arrived from a country outside Australia at any Australian port, and were thence transhipped to New South Wales, were recorded as an import from the State where they were transhipped, and not as they ought to have been, as an oversea import. It is impossible now to ascertain the value of these transhipped goods, but it is believed to have ranged each year between £500,000 and £1,000,000.

Another alteration in its methods was made by the Customs Department in 1904, so that goods of Australian produce sent from another State to New South Wales for transshipment abroad were recorded first as an interstate import, and next, as an oversea export. Previously they were not recorded at all. The greater part of such produce came from Queensland and Tasmania, and it is not possible to estimate its value; but it was considerable, inasmuch as in 1904 it amounted to £2,652,285, and in 1909 to £2,445,738. It is therefore apparent that, in comparing with previous years, the two factors just mentioned should be taken into consideration. However, taking the figures in the table as they stand, it will be seen that the later eighties, so far as the oversea imports are concerned, exhibit a high value per head. Heavy imports were to be expected owing to the large State loans obtained from abroad during these years.

In 1891 the imports averaged £22 4s. 6d. per head; but from that year the values per head of population steadily declined until 1895, when they touched the lowest point on record, viz., £12 15s. 9d. per head. The falling-off was due mainly to two causes—first, to the large diminution in public and private borrowings; and, second, to the fall in prices, which extended to nearly all the commodities that the State imports. In 1896 the value rose to £16 3s. 8d. per head, and the improvement continued until 1900, after which it declined down to 1904. From that year a steady improvement set in, and in 1909 the value was £23 8s. 3d. per head.

The next statement shows the average annual exports in the same years as in the preceding table, also distinguishing the interstate and oversea movements:—

Period.	Exports (Average Annual Value).			Per head of Population.	
	Interstate.	Oversea.	Total.	Oversea.	Total.
	£	£	£	£ s. d.	£ s. d.
1885-89	8,416,648	10,624,323	19,040,971	10 12 6	19 0 6
1890-94	9,553,336	13,138,884	22,692,220	11 4 7	19 7 10
1895-99	7,972,150	16,935,808	24,957,958	13 3 0	19 6 6
1900-04	8,896,716	18,879,740	27,776,456	13 10 4	19 17 9
1905	12,263,472	24,518,534	36,782,006	16 11 7	24 17 6
1906	14,651,156	30,986,888	45,638,044	20 9 3	30 2 9
1907	15,830,905	32,894,073	48,724,978	21 3 2	31 7 5
1908	14,105,050	26,880,709	40,985,759	16 18 5	25 16 0
1909	15,792,608	26,044,789	41,837,397	16 0 8	25 15 1

It will be understood from what has been stated that the exports prior to 1904, to be strictly comparable with those of that year, should have the oversea movement increased by the value of goods sent from other States to New South Wales for transhipment abroad. On the other hand, such goods sent from New South Wales to other States were formerly reckoned among the oversea exports, but are now included with the interstate. The present practice of counting such goods as exported from the place where they are actually placed on board oversea vessels has been in force since the 1st September, 1903, and was adopted to avoid the confusion that might arise from a continuance of the former practice, and the possibility of transshipments being treated as oversea exports both at the place of production and at the place of final export.

From the above table it appears that the exports in 1907 were the highest for the whole period, both absolutely and relatively, but since that year the value has decreased on account of the decline in the prices of pastoral products and minerals. In 1891 the figures were high, but the returns were increased by large shipments of wool which were held over from the preceding year on account of maritime strikes. The years showing out most unfavourably were 1886, 1894, and 1902, which were influenced by adverse seasons or falling prices.

Judged by the volume of its exports per inhabitant, New South Wales compares favourably with any country whose commerce is at all considerable, as an export of from £19 to £31 can be shown only by a few countries, such as Belgium, whose trade is largely made up of re-exports.

The following table affords a comparison of the trade of New South Wales (imports and exports combined) with that of the other Australian States and the principal British possessions and foreign countries. The figures represent the average annual value during the last three years:—

Country.	Total Trade.	Value per Inhabitant.	Country.	Total Trade.	Value per Inhabitant.
	£	£ s. d.		£	£ s. d.
<i>New South Wales</i>	32,244,000	51 15 0	Cape Colony ...	58,226,000	23 9 0
Victoria ...	56,458,000	44 12 4	Canada ...	121,479,000	19 1 11
Queensland ...	24,199,000	43 10 9	German Empire ...	812,643,000	13 1 10
South Australia ...	25,004,000	62 13 9	Belgium ...	435,379,000	60 14 7
Western Australia	15,797,000	58 14 9	France ...	618,495,000	15 15 2
Tasmania ...	7,166,000	39 9 10	Switzerland ...	191,819,000	54 8 11
New Zealand ...	35,499,000	37 11 1	United States of America	706,588,000	8 4 10
United Kingdom..	1,222,477,000	27 14 5	Argentina ...	123,894,000	23 3 9
			Japan ...	95,857,000	1 19 0

Western Australia and South Australia have a greater trade per capita than that of New South Wales, which might be expected since Western Australia is a large gold-producing State with a small population, and South Australia has a large re-export trade in the products from the Broken Hill silver mines. The trade of New South Wales per inhabitant exceeds that of all British possessions, and of foreign countries, except Belgium and Switzerland, which have a large re-export and transit business. In all the above countries the re-export trade is included, and if the re-exports be excluded in the case of Belgium and Switzerland, the values per head will be reduced by over £20 in each case.

BALANCE OF TRADE.

New South Wales is a debtor country, and its trade is affected by the imports of capital and the corresponding payments of interest. In former years the annual imports of capital, both on public and private account, were large, and exceeded the necessary payments of interest, so that the balance of trade showed an excess of imports. Of late years capital has still been imported, but in smaller amounts not equal to the interest payments, so that the exports since about 1892 have been the greater.

The following is a statement of the balance of trade for each of the last twenty years:—

Year.	Excess of Exports or Excess of Imports (—).	Year.	Excess of Exports or Excess of Imports (—).
	£		£
1890	(—) 569,067	1900	603,445
1891	560,623	1901	422,906
1892	1,195,721	1902	(—) 2,430,159
1893	4,814,188	1903	47,890
1894	4,775,732	1904	5,718,574
1895	5,942,370	1905	7,357,998
1896	2,443,839	1906	10,972,681
1897	2,006,722	1907	9,318,783
1898	3,194,557	1908	3,343,013
1899	2,851,151	1909	3,802,435

During the last twenty years the balance of trade has been against the State twice (in 1890 and 1902). In the latter year there was heavy borrowing by the Government. The years 1900 and 1901 were affected by the large imports in anticipation of the Federal tariff. In 1909 the excess of exports amounted to nearly four millions sterling.

ARTICLES OF IMPORT.

In order to show as clearly and concisely as possible the nature of the goods imported into New South Wales, those brought into the State during 1909 have been classified under certain leading heads, as shown in the table

below. A distinction has been made between produce of any of the Australian States, and produce of British and foreign manufacture:—

Articles of Import.	Australian Produce.	British and Foreign Produce.	Total Imports.
Food, Drink, Narcotics, and Stimulants—	£	£	£
Animal food	473,461	331,689	805,150
Vegetable food	2,489,373	1,418,866	3,908,239
Drinks—alcoholic	116,739	711,731	828,470
" non-alcoholic	16,145	7,716	23,861
Tobacco and other narcotics	143,738	285,345	429,083
Other stimulants and condiments	101,658	799,849	901,507
	3,341,114	3,555,196	6,896,310
Live Animals and Plants—			
Animals of all kinds	2,086,388	61,686	2,148,074
Plants	21,532	35,138	56,670
	2,107,920	96,824	2,204,744
Textile Fabrics, Dress, and Manufactured Fibrous Materials—			
Silk manufactures ... ..	.....	386,845	386,845
Woolen manufactures	109,758	1,023,904	1,133,642
Cotton and flax manufactures	2,479	1,456,916	1,459,395
Manufactures of mixed materials	5,594	803,912	809,506
Dress	771,506	1,571,672	2,343,178
Manufactures of fibrous materials	3,066	551,184	554,250
	892,383	5,794,433	6,686,816
Products of Arts and Manufactures, n.e.i.—			
Books and stationery and paper	91,555	882,750	974,305
Musical instruments	5,154	167,535	172,689
Works of art and art materials	24,310	68,733	93,043
Fancy goods	19,125	444,030	463,155
Timepieces, jewellery, and plated ware	131,817	427,487	559,304
Surgical and scientific instruments	1,270	234,000	235,270
Metal manufactures, including machinery	383,671	3,431,808	3,815,479
Harness, vehicles, and equipment	49,098	421,377	470,475
Ships, boats, and equipment	1,740	198,441	200,181
Building materials	37,361	221,031	258,392
Furniture	91,849	172,818	264,667
Arms and explosives	28,471	285,656	314,127
Drugs, chemicals, and by-products	84,687	553,647	638,334
Glass and earthenware manufactures	17,095	293,547	310,642
Soap, candles, and paint	64,709	232,385	297,094
Other manufactures, n.e.i.	164,088	808,108	972,196
	1,196,000	8,843,353	10,039,353
Staple Animal and Vegetable Substances, including Mineral Oils—			
Animal substances	2,091,872	406,424	2,498,296
Vegetable substances	152,995	1,096,436	1,249,431
Oils	14,348	439,771	454,119
	2,259,215	1,942,631	4,201,846
Staple Minerals and Metals, including Specie and Bullion—			
Specie and bullion	3,347,476	614,627	3,962,103
Iron and steel	4,128	1,235,374	1,239,502
Other metals	1,544,884	280,074	1,824,958
Coal and shale ... ..	.....	.....	.....
Stone, clay, and other minerals	607,674	58,934	666,608
	5,504,162	2,189,009	7,693,171
Indefinite articles	26,565	286,157	312,722
Total Imports	15,327,359	22,707,603	38,034,962

From this table it will be seen that about two-fifths of the imports are the produce of other Australian States. The whole of this, however, is not for local consumption; gold bullion is imported for purposes of coinage, and is then re-exported; merchandise to the value of £2,445,738, mostly in the shape of staple products, was in transit to be transhipped to countries

beyond the Commonwealth; while other raw staple products, especially animal and vegetable substances and minerals after being slightly prepared, were eventually re-exported abroad. Goods of British and foreign production to the value of £1,847,390 were re-imported from other Australian States.

The principal articles retained for local consumption were those in the class comprising the products of arts and manufactures. By far the largest item in this class is metal manufactures, which include machines and machinery; then follow books, stationery, and paper; drugs and chemicals; timepieces and jewellery; harness, vehicles, and equipment; and fancy goods:

The class containing staple minerals and metals was second, but this, as well as that comprising staple animal, and vegetable substances, included many articles mostly intended for re-export. The class including articles of food and drink came third, the largest item being vegetable food, which was followed by tea and other stimulants and condiments, then animal food. The next in importance was the class including textile fabrics and dress, in which the most important items were those of dress, cotton, woollen, and mixed manufactures.

EXPORTS OF DOMESTIC PRODUCE.

The exports from New South Wales consist chiefly of goods produced or manufactured in the State, the re-exports being comparatively small.

Under the present conditions of development in the State, the export of domestic produce is a very fair indication of its progress in productive pursuits. The value of the domestic exports in 1909 was twice as great as in 1888; and, speaking generally, the expansion during the intervening period of twenty-one years has been of a steady character. Wool constitutes the largest item of domestic export, and any fluctuation in the production or market value of the staple is plainly marked in the whole trade.

In 1885 there was a sharp fall in the price of wool and staples generally, to the extent of about 12 per cent., while there were further losses due to a succession of dry seasons. The exports of produce other than that of the State also show a decline about this period, due partly to the causes which affected the general exports, and partly to the establishment of direct communication between Great Britain and Queensland and Tasmania; but the lost ground has been more than recovered:—

Period.	Domestic Produce exported.			Other produce Re-exported, including Gold.
	Gold.	Commodities.	Total.	
	£	£	£	£
1860-64	8,275,407	20,785,535	29,060,942	9,841,618
1865-69	4,011,327	31,841,272	35,852,599	11,596,579
1870-74	3,492,628	37,919,502	41,412,130	13,586,172
1875-79	2,276,585	46,452,700	48,729,285	17,853,760
1880-84	1,853,038	65,491,703	67,344,741	21,162,787
1885-89	617,912	70,647,694	71,265,606	23,939,252
1890-94	1,795,935	87,228,778	89,024,713	24,436,387
1895-99	7,541,459	79,643,906	87,185,365	37,604,424
1900-04	3,824,785	93,655,603	97,480,388	41,401,896
1905	762,058	27,302,612	28,064,670	8,717,336
1906	757,064	31,480,900	32,237,964	13,400,080
1907	731,094	36,993,743	37,724,837	11,050,141
1908	749,320	31,670,746	32,420,066	8,565,633
1909	787,377	32,658,639	33,446,016	8,391,381

The value of export of domestic produce in 1904 and subsequent years depends upon an estimate. Owing to the manner in which the Customs

Department now records the interstate movements of goods, it is not possible to ascertain the value of any State's own produce exported to the other States—it is all combined as Australian produce. It has, therefore, been necessary to estimate the interstate export of New South Wales produce, but it is believed that the figure quoted is substantially correct, as the bulk of such goods is produced in the exporting State.

There was a notable rise in the value of domestic produce exported during 1889, which was well sustained until 1893. This may be attributed in the first place to a fortunate succession of good seasons, and in the second to the production of silver, which became an important article of export in the year named.

The large decrease in 1894 was caused by the fall in prices, the depression preventing such increased production as would have had the effect of sustaining the total export value. In 1895 and 1896 there was a further slight fall, although the average price of the commodities produced in the State was higher than in 1894. In 1897 the prices were not so good as in 1896, but the value of the domestic exports was greater, both in the total amount and in the average per head of population. The recovery in prices from 1898 onwards has enabled the exports of domestic produce to show a decided increase on the values of the previous years, although 1902 and 1903 were affected by decreased production on account of adverse seasons.

The value of New South Wales produce exported in 1907 was the highest on record, both absolutely and relatively, this satisfactory result being due to increased production and high prices. The decrease in 1908 is due mainly to the fall in the prices of wool and metal, and the adverse wheat season.

The decreased prices of pastoral and mineral products continued throughout 1909, but there was an improvement in the value of domestic exports.

In the presentation of these figures the value of commodities has been separated from that of gold, although in dealing with the exports of the Australian States, gold should be reckoned a commodity as much as wool, wheat, or any other article.

Below will be found the value of the trade per inhabitant, the subdivision being the same as that adopted in the previous table:—

Period.	Domestic Produce Exported.			Other Produce Re-exported, including Gold.
	Gold.	Commodities.	Total.	
1860-64	£ s. d. 4 11 2	£ s. d. 11 9 1	£ s. d. 16 0 3	£ s. d. 5 8 6
1865-69	1 16 9	14 11 10	16 8 7	5 6 4
1870-74	1 6 6	14 8 0	15 14 6	5 3 0
1875-79	0 14 5	14 13 5	15 7 10	5 12 9
1880-84	0 9 3	16 6 4	16 15 7	5 5 5
1885-89	0 2 5	14 2 5	14 4 10	4 15 8
1890-94	0 6 2	14 18 2	15 4 4	4 3 6
1895-99	1 3 4	12 6 8	13 10 0	5 16 6
1900-04	0 11 0	13 8 2	13 19 2	5 18 7
1905	0 10 4	18 9 3	18 19 7	5 17 11
1906	0 10 0	20 15 9	21 5 9	8 17 0
1907	0 9 5	23 15 10	24 5 3	7 2 2
1908	0 9 5	19 18 9	20 8 2	5 7 10
1909	0 9 8	20 2 1	20 11 9	5 3 4

From these figures, it appears that in spite of the large and increasing amount which the State owes to its outside creditors, and the great fall in prices previously noticed, the export of domestic produce available to pay for imports shows very little diminution.

As a country manufacturing for export New South Wales has not yet achieved a high position. So many other channels have been presented for the successful employment of capital that little attention has been bestowed upon the possibility of New South Wales supplying other countries with its own manufactures; but as these outlets of capital are closed, the vast possibilities of the country in other directions will doubtless be recognised. The following table shows the nature of the domestic exports from New South Wales during 1909, the classification being similar to that adopted for the imports. The exports are divided into those to other Australian States and to oversea countries, those to other Australian States depending on an estimate as previously explained:—

Articles of Domestic Produce Exported.	To other Australian States.	To Countries Oversea.	Total.
Food, Drink, Narcotics, and Stimulants—	£	£	£
Animal food	454,190	1,906,605	2,360,795
Vegetable food	773,092	1,020,101	1,793,193
Drinks—alcoholic	56,992	16,115	73,107
„ non-alcoholic	15,929	2,455	18,384
Tobacco and other narcotics	294,887	3,468	298,355
Other stimulants	14,117	1,052	15,169
	1,609,207	2,949,796	4,559,003
Live animals	1,971,810	57,320	2,029,130
Plants	29,294	17,105	46,399
	2,001,104	74,425	2,075,529
Textile fabrics, dress, and manufactured fibrous materials	425,577	50,131	475,708
Products of arts and manufactures, n.e.i.	1,045,432	503,578	1,549,010
Staple Animal and Vegetable Substances, including Mineral Oils—			
Animal substances	3,371,914	13,941,484	17,313,398
Vegetable substances	48,954	33,674	82,628
Oils	28,333	132,106	160,439
	3,449,201	14,107,264	17,556,465
Staple minerals and metals	3,124,243	2,644,749	5,768,992
Specie and bullion	169	1,433,483	1,433,652
Indefinite articles	19,503	8,154	27,657
Total... ..	11,674,436	21,771,580	33,446,016

Out of the amount £11,674,436 shown above as exported to other Australian States, considerably more than half was for export oversea, representing the value of wool sent from the Riverina and Western divisions of New South Wales to Victoria and South Australia, silver-lead ore and concentrates sent from Broken Hill to South Australia, and other staple products—agricultural, pastoral, and mineral—sent to both States. By far the larger portion of the

exports consists of raw materials, which, practically, are all produced for export abroad. The following table shows during the last three years the quantities and values of the principal articles of New South Wales produce exported direct to countries beyond the Commonwealth, and indicates that the export trade depends on the production from primary industries, and is affected by the variation in prices:—

Articles Exported Oversea.	Quantity.			Value.		
	1907.	1908.	1909.	1907.	1908.	1909.
Wool lb.	271,249,591	262,200,071	279,852,326	£ 14,608,869	£ 11,219,666	£ 11,654,400
Leather .. .. .	.....	.....	.....	278,276	281,790	268,362
Tallow cwt.	349,200	311,515	521,573	526,697	424,676	684,189
Skins and Hides .. .. .	.....	.....	.....	893,476	822,660	1,173,125
Meats, all kinds .. .. .	.....	.....	.....	1,074,376	933,264	1,147,761
Butter lb.	17,832,354	17,261,331	17,331,117	769,463	813,490	752,487
Wheat bushel	3,936,810	413,558	3,188,417	793,901	92,621	634,901
Flour ton	35,544	16,453	20,336	292,978	158,132	216,846
Gold, bullion oz.	184,851	195,717	209,645	730,940	748,577	787,329
Copper, ingots and maite .. cwt.	212,547	193,700	259,574	842,325	554,599	756,075
" ore "	11,891	5,434	1,075	6,551	5,422	592
Silver and Lead .. .. .	.....	.....	.....	1,036,381	824,882	437,688
Spelter and concentrates .. cwt.	905,399	930,961	1,724,439	148,593	141,139	397,088
Tin, ingots "	49,434	39,661	34,018	426,131	262,763	227,817
" ore "	10,797	16,801	19,881	61,893	79,122	83,988
Coal and Coke ton	2,673,966	2,585,945	1,604,872	1,325,147	1,375,195	854,867
Timber, dressed and undressed	.....	.....	.....	319,755	282,248	240,844

The figures in the above table represent the direct exports only. In almost every case, and especially for wool and silver-lead, the real exports would appear very much larger if the Interstate transfers in transit were added.

The relative importance of these articles will be seen from the following statement, which is based on the experience of the three years in the above table, and which shows the proportion per cent. of the value of the export of each article to the total oversea export of domestic produce:—

Article.	Proportion per cent.	Article.	Proportion per cent.
Wool	54.6	Copper	3.2
Leather	1.2	Silver and Lead	3.3
Tallow	2.4	Tin	1.7
Skins and Hides	4.2	Coal and Coke	5.2
Meat	4.6	Timber	1.2
Butter	3.4	All other articles... .. .	8.4
Wheat and Flour	3.3		
Gold	3.3		100.0

Wool is the great staple export of the State, and constitutes over one-half of the value of the domestic exports. A marked feature of the wool trade is the growing disposition of buyers on the Continent of Europe to purchase their supplies direct from the State instead of obtaining them through the London brokers. Year by year the representatives of foreign manufacturers who visit Sydney for the purpose of attending the wool sales become more numerous. A little more than twenty years ago all the wool destined for Europe was transhipped in London, but in 1909 the shipments of the staple of local growth to Belgium, France, Germany, and Italy amounted to 189,153,489 lb., valued at £7,658,845. A direct trade with the Continent is desirable, and its growth will be seen from the following table, giving

at intervals since 1881 the destination of the wool exported, and the proportion taken by each country:—

Country.	Value.				Proportion.			
	1881.	1891.	1901.	1909.	1881.	1891.	1901.	1909.
	£	£	£	£	%	%	%	%
United Kingdom	4,062,766	5,741,350	3,858,008	3,365,537	98·9	74·9	51·9	28·9
Belgium	3,933	1,019,614	874,012	1,823,806	·1	13·3	11·8	11·4
Germany	988	407,924	1,238,492	3,396,125	·0	5·3	16·7	29·1
France .. .. .	.....	409,653	1,295,274	2,375,955	·0	5·3	17·5	24·7
United States	40,008	83,981	39,159	386,423	1·0	1·2	·5	3·3
Other Countries—Oversea ..	20	3,038	120,174	306,554	·0	·0	1·6	2·6
Total	4,107,715	7,670,460	7,420,119	11,664,400	100·0	100·0	100·0	100·0

It will be observed that since 1881 the wool exported to the United Kingdom has decreased from 98·9 to 28·9 per cent. France and Germany both show proportionate increases throughout the whole period, rising from nil in 1881 to 24·7 per cent. for France, and 29·1 per cent. for Germany in 1909.

The other products of the pastoral industry—leather, tallow, skins, hides, and meats—form an export of considerable value, and amount to 12 per cent. of the total.

Shipments of the principal minerals are also made on an important scale. Coal forms one of the staple exports of New South Wales, the quantity shipped beyond the Commonwealth in 1909 reaching 1,582,336 tons, valued at £837,320.

The export of silver, silver-lead, and ore has become important since 1884, the value for 1893 amounting to £3,031,720, but in consequence of the great fall in the price of the metal, due to the closing of the Indian mints and the stoppage of purchases by the United States Government, the value of the export greatly declined, being only £1,704,055 in 1898. The year 1900 witnessed a revival in production, but during the last two years the value has again been reduced by the low prices, and in 1909 amounted to £1,857,810.

Extensive development has taken place in the copper-mining industry within recent years, the export of the mineral of local production increasing from £197,814 in 1896 to £762,616 in 1909. Twenty-five years ago the industry contributed about half a million to the exports of the State; but there was a steady decline from 1883 to 1894, when the value of the shipments of locally-produced copper was only £63,617. The satisfactory prices realised of late years have had a stimulating effect on the industry, and a similar cause accounts for the increase in the production of tin, the exports of which rose from £68,546 in 1896 to £90,482 in 1899 and to £314,038 in 1909. The values of these exports since 1908 show a substantial decrease compared with the figures for 1907, on account of fluctuating prices. It should be explained that the amounts just quoted as the exports of silver-lead, copper, and tin, include the quantities transferred to other States, as practically the whole of these were for export abroad.

RE-EXPORT TRADE.

The re-export trade of the State increased considerably until 1889, but thereafter a marked decline was experienced. In 1895, however, an improvement was manifested, which has continued. The shipping facilities of Sydney formerly attracted to the port a large amount of trade from New Zealand, Queensland, and the South Seas, for transshipment to Europe; but the establishment of direct communication between these countries and Europe checked to some extent the expansion of the re-export trade.

The total value of the re-exports of the State will be found on reference to the previous tables showing the values, absolute and per head of population, of domestic exports and re-exports. Gold, consisting largely of Queensland and New Zealand metal coined at the mint and shipped by the banks to London, the United States, and the East, forms a large proportion of the trade. There is also a large re-export of wool, chiefly the produce of Queensland, and a fairly large trade in provisions and manufactured articles of British and foreign production with New Zealand, New Caledonia, Fiji, and other islands of the Pacific.

The total value of the re-exports in 1909 was £8,391,381, of which £4,237,832 was Australian produce, and £4,153,549 the produce of other countries.

Of the Australian produce goods valued at £1,593,451 were re-exported to other States, and £2,644,381 oversea; while of the "other" produce goods worth £2,524,721 were sent to other Australian States, and £1,628,828 to countries oversea.

Amongst raw commodities the principal articles re-exported are tallow, skins and hides, tin, and wool; while the manufactured articles are chiefly apparel and soft goods, metal manufactures, iron and steel, machinery, drugs and chemicals, books and stationery, boots, beer and spirits, tobacco, cigars and cigarettes, and also large quantities of provisions.

TRADE WITH VARIOUS COUNTRIES.

The trade of the State with the United Kingdom is greater than with any other country. It must be remarked, however, that the real trade with the United Kingdom is not shown, because on the one side foreign goods are sent to Australia through London, and on the other a large portion of the exports from New South Wales to Victoria and South Australia is eventually shipped to the United Kingdom. The following statement shows the total trade of New South Wales during 1909 with the principal countries:—

Country.	Imports.	Exports.	Total Trade.
	£	£	£
Australian States	17,146,943	15,792,608	32,939,551
United Kingdom	12,333,869	10,384,438	22,718,307
British Possessions—			
Canada	330,651	67,495	398,146
Fiji	345,832	325,523	671,355
Hong Kong	114,356	377,441	491,797
India and Ceylon	990,938	355,191	1,346,129
New Zealand	1,213,082	1,087,400	2,300,482
South Africa	76,983	233,064	310,047
Straits Settlements	86,970	215,414	302,384
Others	162,826	103,453	266,279
	32,802,450	28,942,027	61,744,477
Foreign Countries—			
Belgium	463,582	2,113,515	2,577,097
China	11,906	54,672	66,578
France	142,768	3,214,817	3,357,585
Germany	1,120,180	4,150,803	5,270,983
Italy	117,436	105,353	222,789
Japan	270,984	833,992	1,104,976
Java	560,972	103,564	664,536
New Caledonia	33,234	97,081	130,315
Philippine Islands	29,096	240,579	269,675
South Sea Islands	132,542	191,289	323,831
United States	2,014,962	1,063,677	3,078,639
Others	334,850	726,028	1,060,878
	5,232,512	12,895,370	18,127,882
Total	38,034,962	41,837,397	79,872,359

The statement represents the direct trade with the countries specified, irrespective of the place of origin, or of the ultimate disposal of the goods. It is impossible to trace the exports to their destination, but, so far as the imports are concerned, the Customs Department records the countries of origin of the goods, that is to say, the countries where the goods were actually produced or manufactured. The following statement affords a comparison of the imports during 1909, according to the countries whence they were directly shipped, and according to the countries of origin. In each case the proportions of each to the total imports are attached:—

Country.	Direct Imports.	Origin of Imports.	Proportion per cent.	
			Direct Imports.	Origin of Imports.
	£	£		
Australian States	17,146,943	15,327,359	45·08	40·30
United Kingdom	12,333,869	10,878,600	32·43	28·60
British Possessions—				
Canada	330,651	397,384	·87	1·05
Hong Kong	114,356	1,580	·30	·00
India and Ceylon	990,938	1,076,317	2·60	2·83
New Zealand	1,213,082	1,117,428	3·19	2·94
Straits Settlements	86,970	62,521	·23	·16
Others	585,641	735,131	1·54	1·93
	32,802,450	29,596,320	86·24	77·81
Foreign Countries—				
Belgium	463,582	221,683	1·22	·58
China	11,906	136,147	·03	·36
France	142,768	764,037	·37	2·01
Germany	1,120,180	1,857,741	2·94	4·88
Italy	117,436	174,843	·31	·46
Japan	270,984	308,010	·71	·81
Java	560,972	568,915	1·48	1·50
South Sea Islands	132,542	195,960	·35	·52
Switzerland	1,918	358,946	·01	·94
United States	2,014,962	2,945,441	5·30	7·74
Others	395,262	906,919	1·04	2·39
	5,232,512	8,438,642	13·76	22·19
Total	38,034,962	38,034,962	100·00	100·00

During the year Australian produce to the value of £27,806 was re-imported from outside the Commonwealth, and "other" produce to the value of £1,847,390 was re-imported from the other States.

The table shows that there were fairly considerable differences in the case of the United Kingdom, Belgium, France, Germany, Switzerland, and the United States, and smaller differences in the case of all the countries, between the direct imports and those according to country of origin, and the differences would be still larger were it not that the totals for countries of

origin are increased on account of goods re-imported from other States during the year. According to the direct imports about 32 per cent. of the total was received from the United Kingdom, 9 per cent. from British possessions, and 14 per cent. from foreign countries, whereas, in reality, the proportion of British goods imported was 29 per cent., and of foreign goods 22 per cent., the proportion of the produce of British possessions being practically unaltered.

The table below shows in quinquennial periods since 1880, the volume of imports divided under the four heads, Australian States, the United Kingdom, British possessions, and Foreign countries:—

Period.	Imports from—				Total Imports.
	Australian States.	United Kingdom.	British Possessions.	Foreign Countries.	
	£	£	£	£	£
1880-84 ...	32,592,680	48,726,544	7,092,661	9,502,846	97,914,731
1885-89 ...	40,857,186	48,279,604	8,134,224	11,063,225	108,314,239
1890-94 ...	44,238,360	41,293,833	6,943,513	10,208,197	102,683,903
1895-99 ...	47,175,625	37,123,060	7,775,602	16,271,863	108,346,150
1900-04 ...	57,426,119	43,118,128	10,147,402	23,827,977	134,519,626
1905 ...	14,938,885	8,602,288	2,448,226	3,434,609	29,424,008
1906 ...	17,061,860	10,047,928	3,446,059	4,109,516	34,665,363
1907 ...	18,595,804	12,474,736	3,308,836	5,076,819	39,456,195
1908 ...	17,814,260	11,853,791	2,897,347	5,077,348	37,642,746
1909 ...	17,146,943	12,333,869	3,321,638	5,232,512	38,034,962

If these figures be stated as proportions of the total imports the following results are obtained:—

Period.	Australian States.	United Kingdom.	British Possessions.	Foreign Countries.	Total.
	%	%	%	%	%
1880-84 ...	33·29	49·76	7·24	9·71	100
1885-89 ...	37·70	44·57	7·51	10·22	100
1890-94 ...	43·08	40·22	6·76	9·94	100
1895-99 ...	43·54	34·26	7·18	15·02	100
1900-04 ...	42·69	32·06	7·54	17·71	100
1905 ...	50·77	29·24	8·32	11·67	100
1906 ...	49·22	28·99	9·94	11·85	100
1907 ...	47·13	31·62	8·38	12·87	100
1908 ...	47·32	31·49	7·70	13·49	100
1909 ...	45·08	32·43	8·73	13·76	100

The diversion of trade shown by the table is rather remarkable, but is probably more apparent than real. Twenty years ago the ships which now trade direct between Australia and Europe and America were either just beginning to run or were not running at all, and goods were sent to Australia through London to a greater extent than is now the case. So far as the proportions are concerned, the Australian States and the United Kingdom have practically changed places. Since 1880 the proportion of

imports from British possessions has hardly varied; but of late years the proportion of imports from foreign countries has increased materially.

The next table shows the exports from New South Wales under the same heads and for the same periods as in the preceding tables, and a careful consideration of the figures will show that the changes in the exports have been very similar to those in the imports:—

Period.	Exports to—				Total Exports.
	Australian States.	United Kingdom.	British Possessions.	Foreign Countries.	
	£	£	£	£	£
1880-84	37,167,523	39,964,529	5,449,726	5,925,747	88,507,525
1885-89	42,083,242	37,727,437	4,508,809	10,885,370	95,204,858
1890-94	47,766,714	39,358,695	4,742,725	21,592,966	113,461,100
1895-99	39,862,835	43,203,489	6,137,642	35,585,823	124,789,789
1900-04	44,483,581	40,732,026	14,441,877	39,224,800	138,882,284
1905	12,263,472	10,222,422	3,533,673	10,762,439	36,782,006
1906	14,651,156	12,174,155	4,925,904	13,886,829	45,638,044
1907	15,880,905	13,687,977	4,255,611	14,950,485	48,774,978
1908	14,105,050	11,481,747	3,257,681	12,141,281	40,985,759
1909	15,792,608	10,384,438	2,764,981	12,895,370	41,837,397

Proportion per cent.

1880-84	41·99	45·15	6·16	6·70	100
1885-89	44·20	39·63	4·74	11·43	100
1890-94	42·10	34·69	4·18	19·03	100
1895-99	31·94	34·62	4·92	28·52	100
1900-04	32·03	29·33	10·40	28·24	100
1905	33·34	27·79	9·61	29·26	100
1906	32·10	26·68	10·79	30·43	100
1907	32·56	28·06	8·73	30·65	100
1908	34·41	28·01	7·96	29·62	100
1909	37·75	24·82	6·61	30·82	100

The exports show a similar tendency to the imports. Both absolutely and relatively the exports to foreign countries have increased continuously; so that the proportion of goods now sent to the United Kingdom is less than to foreign countries. The reason is similar to that given regarding the imports, namely, the opening up of direct communication with the various countries, and also to the fact that gold is now shipped direct to those countries on account of the United Kingdom. The exports to British possessions more than doubled during the last ten years, and at first sight this might seem curious, but the explanation is that there have been heavy shipments of gold and silver to India and Ceylon.

TRADE WITH AUSTRALIAN STATES.

It has already been stated that the records of Interstate trade are to a certain extent misleading. The outward Interstate transfers in particular are now worth very little. In 1904 records of outward Interstate transfers were abolished, and the only manner in which the exports from any State to the other States can now be obtained, is by the reverse method of taking the imports into the other States as the exports from that State. Consequently the values of the Interstate imports and exports are identical, and do not take into account freight, insurance, &c. The export values are therefore too high, the average excess being perhaps as much as 10 or 15 per cent.

Moreover, such movements as those of live stock between New South Wales and Queensland and South Australia are reckoned as trade, and again

both the imports and exports are increased by including goods which pass through the State and are subsequently shipped to countries outside Australia, chiefly to the United Kingdom. Altogether, of the total Interstate trade, considerably more than one-half is only nominal. However, taking the figures for what they are worth, the following table shows the total value of the imports from and exports to each State into and from New South Wales at intervals since 1870:—

State.	1870.	1880.	1890.	1900.	1909.
IMPORTS.					
From—	£	£	£	£	£
Victoria	1,153,695	2,187,119	2,097,259	3,396,782	5,486,994
Queensland	1,767,974	2,224,421	5,482,452	4,631,384	7,322,160
South Australia	366,480	690,407	2,036,492	1,439,528	2,422,722
Western Australia	144	.....	830	147,908	677,146
Tasmania	90,827	383,106	432,615	548,478	1,237,921
Total	3,379,120	5,485,053	10,049,648	10,164,080	17,146,943
EXPORTS.					
To—	£	£	£	£	£
Victoria	2,583,552	4,578,867	5,386,553	3,977,828	7,109,071
Queensland	680,301	1,362,262	1,670,465	1,918,903	3,892,802
South Australia	350,247	830,256	3,700,124	3,259,530	3,485,925
Western Australia ... ..	.....	1,104	17,811	445,974	850,656
Tasmania	26,555	81,484	215,674	376,979	454,154
Total	3,640,655	6,853,973	10,990,627	9,979,214	15,792,608

The trade between New South Wales and the other States has increased constantly since 1870, and shows special expansion between 1880 and 1890, owing to the opening up of the Broken Hill silver mines about 1884. Practically the whole of the trade of Broken Hill passes through South Australia, and increases the volume of trade credited to that State. South Australia also receives credit for large quantities of wool sent from the Western districts of New South Wales for transhipment oversea. The decline after 1890 was due to the fact that the pastoral industry was affected by unfavourable seasons and lower prices, and the trade of Broken Hill also by lower prices for its minerals.

The largest trade of all the States is with Victoria, but Queensland is not far behind. A great part of the Riverina and south-western districts of the State trades almost exclusively with Melbourne. Included in the Queensland, West Australian, and Tasmanian figures is gold sent to Sydney for coinage, while movements of live stock are included in all the States—Queensland being most largely affected in each case. There are also included the re-exports of British and foreign produce from State to State.

The chief value of the Interstate records now is to show how the trade of the State has been affected by Federation, as since 1901 the old State tariffs have been abolished, and trade between all the States is free. The New South Wales markets were practically free to the other States before Federation.

The following statement shows for each of the years 1907, 1908, and 1909, the value of the imports of Australian produce from the other States into New South Wales, and the value of New South Wales produce exported to the other States.

The articles exchanged between New South Wales and the other States are many, and only those are shown in the statement which were probably intended for consumption. The export figures are partly estimated for reasons already explained.

Article.	Australian Produce imported from other Australian States.			New South Wales Produce exported to other Australian States.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Butter	125,220	155,009	116,117	132,534	353,001	307,050
Cheese	22,003	26,542	24,070	5,421	3,845	9,325
Eggs	48,874	58,244	43,583	856	1,314	902
Fish—all kinds	14,457	12,809	12,301	5,407	4,717	5,641
Meats—						
Bacon and ham	96,942	99,562	101,475	8,253	22,094	14,688
Frozen beef	11,197	3,934	3,584	125	893	557
„ mutton ... ..	.....	187	42	73,360	21,351	14,520
Extract of	7,997	6,326	7,869	36	68	355
Preserved	40,221	51,064	63,610	61,164	58,369	74,699
Milk—						
Preserved & Concentrated	28,218	33,493	44,513	6,297	12,179	9,497
Biscuits	11,981	14,717	10,236	60,833	63,274	74,648
Confectionery	66,170	66,347	49,588	19,583	17,778	16,375
Fruits—dried	98,499	107,537	109,822	1,888	1,479	1,115
fresh	232,375	291,157	274,169	103,546	78,344	95,877
Vegetables—fresh	51,366	73,039	60,936	8,777	10,153	12,647
Grain—Maize	117,901	115,895	67,202	3,564	6,934	6,900
Oats	112,018	89,810	184,141	2,092	4,682	2,948
Wheat	61,336	252,364	75,614	214,440	76,608	96,762
Grain, prepared—						
Flour	121,238	152,592	117,179	188,168	197,725	239,381
Malt	105,775	107,608	94,689	155	483	691
Bran, pollard, and sharps..	25,701	29,853	27,886	32,489	30,659	46,084
Hay and chaff	337,627	644,942	317,702	5,169	20,207	20,450
Jams and jellies	57,611	71,719	85,547	34,702	36,028	40,975
Linseed cake	109	288	141	10,153	12,628	13,050
Onions	35,287	70,105	51,691	1,379	2,395	1,784
Potatoes	196,991	390,607	237,413	32,695	39,649	37,852
Sugar	783,854	608,161	511,266	.....	.....	.....
Ale and beer	26,692	25,358	24,256	16,286	19,543	20,438
Spirits—Brandy	27,332	24,129	16,337	.....	.....	.....
Wine, Fermented, N.E.I.	44,284	53,009	55,144	13,236	14,086	14,567
Aerated waters	2,668	2,881	4,055	9,770	10,776	13,293
Tobacco—Manufactured	69,015	86,094	71,333	125,318	131,575	147,728
Cigarettes	14,839	14,593	13,876	87,020	96,011	132,486
Cigars	20,904	23,944	32,044	2,409	1,920	3,664
Hops	23,245	24,048	18,968	.....	.....	.....
Pickles	9,204	8,819	8,841	10,878	11,698	11,059
Salt	55,861	54,213	50,635	.....	.....	.....
Blankets	46,148	57,285	51,254	2,060	4,716	5,357
Woollens	55,733	56,308	57,810	8,509	10,670	13,065
Apparel and attire	338,347	362,526	397,308	134,134	143,616	163,882
Umbrellas, parasols	9,304	10,641	8,668	10,687	10,109	10,081
Boots and shoes	234,905	228,351	275,089	134,428	135,006	134,168
Hats and caps	62,043	77,857	89,041	35,705	38,493	55,109
Cordage, fibrous	29,743	35,699	39,127	14,207	14,973	14,914
Books	12,442	18,121	15,663	15,521	18,878	19,171
Paper	17,217	18,512	17,222	17,518	18,640	23,931
Stationery	63,364	54,195	56,382	32,196	33,160	38,565

Article.	Australian Produce imported from other Australian States.			New South Wales Produce exported to other Australian States.		
	1907.	1908.	1909.	1907.	1908.	1909.
Pianos... ..	£ 4,627	£ 2,887	£ 3,481	£ 57,900	£ 70,120	£ 70,276
Jewellery	110,604	134,688	120,869	36,593	44,177	63,962
Machines and Machinery	178,693	99,813	98,815	61,080	54,403	62,379
Agricultural imple-ments	71,571	69,895	95,526	3,894	7,534	7,250
Harvesters	20,921	35,009	91,636	.....	.....	.....
Metal manufactures—						
Bolts, nuts, &c.	8,485	13,006	10,119	1,048	778	1,223
Nails	13,206	11,017	6,568	3,407	5,613	10,677
Wire (barbed)	8,480	5,722	4,173	406	4,448	6,638
Wire-netting	136	190	125	17,073	41,226	26,167
Other	86,239	74,545	71,253	67,747	81,943	66,632
Leather manufactures	18,885	15,658	15,978	14,209	14,470	15,171
Bicycles	10,042	14,357	13,431	2,228	3,813	2,035
Cement	6,440	1,638	2,212	54,234	45,602	50,309
Tiles	6,988	7,808	6,167	9,561	174	212
Timber—building	17,694	25,732	22,143	5,285	8,824	12,229
Furniture	43,190	28,389	34,287	16,675	17,631	31,076
Arms, ammunition	28,505	19,074	28,471	404	235	287
Drugs & chemicals, &c.	29,335	45,446	33,725	40,128	38,224	41,501
Medicines	27,253	24,872	22,174	124,690	130,110	139,266
Blue	3,649	2,096	1,594	10,621	10,938	11,933
Glassware, bottles, &c.	14,590	13,393	15,195	9,701	12,236	9,842
Candles	22,225	16,911	15,652	12,988	17,716	27,057
Blacking	4,582	7,988	9,393	2,414	3,900	4,755
Matches and vestas	13,735	20,357	18,508	.....	.....	.....
Soap, N.E.I.	33,566	38,251	39,979	49,693	47,534	52,893
Wicker and wood manufactures	12,390	12,125	16,152	12,994	10,911	19,593
Starch... ..	35,292	30,295	33,212	.....	.....	.....
India-rubber manu-factures, N.E.I.	53,241	56,640	51,814	5,415	5,290	6,147
Manures	17,169	16,441	26,831	27,988	26,806	22,540
Timber	110,794	114,631	74,475	27,826	52,813	41,307
Coal	1,533	2,627	2,438	970,765	1,061,797	908,738
Coke	562	406	215	115,426	134,907	84,249
All articles	16,387,805	15,925,639	15,299,553	12,493,033	10,817,642	11,674,436

There are not many articles where the balance of trade is in favour of this State; among the largest of the items are butter, frozen mutton, preserved meats, biscuits, flour, tobacco, cigarettes, pianos, wire-netting, cement, medicines, soap, coal, and coke. In a great many cases the excess of exports has increased, as in the case of butter, biscuits, flour, tobacco, cigarettes, pianos, and medicines. On the other hand, apparel and attire, boots, preserved milk, potatoes, fruits (dried and fresh), jams and jellies, agricultural implements, and harvesters show exceptionally large increases in the excess of imports.

COMMERCE.

VICTORIA.

In comparison with the imports from Victoria the export list is very meagre, although there is a tendency towards improvement. In the long list shown below of the articles exchanged between the two States there are only nine items under which New South Wales receives more from Victoria than she sends thereto, namely, butter, wheat, oranges and lemons, cigarettes, medicines, blue, cement, candles, and coal. In the way of manufactured articles—such as apparel, woollens, boots, hats, jewellery, furniture, agricultural implements, &c., Victoria has the advantage. With the exception of coal, the trade is largely in favour of Victoria; but, as mentioned previously, a great portion of the southern districts of New South Wales is supplied from Victoria:—

Article.	Australian Produce imported from Victoria.			New South Wales Produce exported to Victoria.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Butter... ..	26,336	16,244	14,771	50,813	182,814	91,057
Cheese	11,398	7,999	7,142	914	4,650	4,182
Meats—Bacon and ham	24,841	17,126	22,588	1,418	9,169	2,273
Frozen mutton ... ..	.....	177	9	45,458	3,094	3
Milk, preserved	13,376	12,239	10,853	1,445	7,135	2,602
Biscuits	9,229	12,749	8,853	3,804	2,748	2,340
Confectionery	58,757	60,576	45,007	5,291	2,515	2,645
Fruits, fresh—						
Apples	2,440	1,651	2,564	6	30	.....
Oranges and lemons	257	114	315	56,572	30,726	39,119
Other	55,295	30,900	55,450	1,319	1,967	950
Fruits, dried—						
Raisins	20,380	15,835	14,881	.....	.....	.....
Sultanas	29,356	33,560	35,262	.....	.....	.....
Vegetables, fresh	6,462	18,057	9,789	5,964	7,817	9,432
Grain—						
Maize	12,791	44,970	21,065	932	2,542	5,948
Oats	37,918	23,520	92,837	380	1,160	534
Wheat	1,360	8,658	19,098	110,915	40,468	82,638
Grain, prepared—						
Flour	22,078	38,175	46,894	9,030	12,855	6,430
Malt	95,196	98,276	88,102	92	483	7
Bran, pollard, and sharps... ..	5,715	10,050	7,416	9,544	7,269	4,237
Hay and chaff	90,752	109,147	198,534	1,915	6,459	1,247
Jams and jellies	30,934	30,926	39,315	6,942	2,676	1,910
Onions... ..	34,162	68,186	49,897	.....	104	268
Potatoes	15,369	45,973	35,811	.....	185	195
Sugar	20,113	32,349	22,923	.....	.....	.....
Ale and beer	11,301	10,638	12,167	1,815	1,903	1,245
Spirits—Brandy	10,075	8,707	6,572	.....	.....	.....
Wine	15,629	17,858	15,370	4,355	3,243	2,400
Tobacco—						
Manufactured	55,838	63,192	57,163	26,400	30,253	34,350
Cigarettes	7,175	7,921	7,386	34,743	35,759	61,801
Cigars	19,352	22,162	30,709	224	139	1,031
Cocoa and chocolate	7,261	8,618	5,509	158	119	14
Coffee and chicory	4,555	5,849	6,642	229	119	11
Pickles	5,289	5,142	6,009	205	337	266

Article.	Australian Produce Imported from Victoria.			New South Wales Produce Exported to Victoria.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Blankets	36,438	47,847	45,462	.....	138	467
Woollens	53,816	55,055	56,205	3,142	3,794	3,705
Apparel and attire	253,660	278,216	318,338	26,797	27,525	36,374
Umbrellas	8,744	10,045	8,417	387	145	417
Boots and shoes	188,003	192,535	232,657	21,546	21,999	25,359
Hats and caps	55,479	70,881	81,382	3,361	2,681	5,560
Cordage	24,975	30,969	34,435	465	4,569	4,211
Books	10,207	15,330	13,348	7,448	9,966	9,281
Paper	16,496	16,013	14,942	4,869	5,369	6,257
Stationery	54,590	46,428	48,859	7,716	8,653	8,218
Jewellery	75,469	92,095	86,697	3,630	11,315	17,857
Machines and machinery	105,022	67,153	65,206	12,069	10,875	13,545
Agricultural implements	62,079	62,809	84,971	1,587	3,669	2,647
Harvesters	19,074	29,590	79,925	.....	.....	.....
Metal manufactures—N.E.I.	65,570	58,719	60,419	17,420	23,588	21,841
Bolts and nuts	7,914	12,946	9,883	.....	69	148
Nails	11,720	9,967	5,581	.....	49	147
Leather manufactures	13,922	8,893	11,636	1,598	2,331	3,563
Bicycles	8,864	13,168	11,768	822	2,393	979
Cement	335	333	183	16,853	11,574	16,908
Tiles	6,880	7,725	6,154	9,310	13	9
Furniture	20,479	17,843	26,478	6,701	3,701	4,056
Arms and ammunition	28,163	18,889	28,373	.....	.....	.....
Drugs and chemicals	12,012	30,757	18,748	11,255	16,398	17,674
Medicines	20,778	18,983	16,223	43,084	48,678	52,157
Blue	3,521	1,745	1,466	1,615	1,682	2,349
Glassware, bottles, &c.	13,316	9,941	12,230	3,461	4,927	2,209
Candles	6,852	4,972	5,132	8,348	8,427	12,268
Blacking	4,243	7,235	8,393	615	1,580	1,584
Matches and vestas... ..	13,470	20,341	18,474	.....	.....	.....
Soap, N.E.I.	20,235	21,100	21,342	14,413	14,490	14,059
Manures	14,435	12,049	22,551	1,136	3,404	4,061
India-rubber manufactures... ..	38,795	42,865	45,062	2,369	1,930	1,363
Starch... ..	34,205	29,242	31,793	.....	.....	.....
Coal ... ..	.....	35	25	488,925	577,229	535,077

QUEENSLAND.

The imports from Queensland consist chiefly of meats, butter, sugar, maize, bananas, pine-apples, and timber, all more or less raw produce. During the three years there has been a great increase in the export trade with Queensland, chiefly in manufactured articles, biscuits, flour, tobacco, cigarettes, apparel, boots, hats, metal manufactures, coke, and others. Coa

is also exported largely. On the whole the balance of trade is in favour of New South Wales:—

Article.	Australian Produce Imported from Queensland.			New South Wales Produce Exported to Queensland.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Butter... ..	38,490	91,429	57,534	837	9,059	265
Cheese	4,023	12,109	12,868	1,004	630	459
Eggs	6,573	8,370	5,504	.....	37	.....
Fish—Fresh oysters	7,380	5,024	4,789	.....	.....	.....
Meats—						
Bacon and ham	53,479	64,841	72,066	1,440	710	3,600
Frozen beef	11,045	3,440	564	.....	60	.....
Extract of	7,813	5,921	7,742	9	.....	103
Preserved	37,770	46,831	61,777	6,816	6,314	6,042
Arrowroot	3,366	3,760	2,443	.....	.....	.....
Biscuits	277	260	219	29,378	34,442	41,479
Fruit, fresh—						
Bananas	21,896	22,878	10,770	.....	.....	.....
Pine-apples	20,684	32,275	21,305	.....	.....	.....
Apples	66	296	125	16,196	21,408	25,302
Oranges and lemons	2,393	5,303	2,009	7,309	5,802	4,260
Other	7,594	6,896	4,652	13,081	11,467	20,065
Vegetables, fresh	15,023	24,798	28,003	2,005	1,825	2,878
Grain—Maize	105,108	70,582	46,127	985	4,012	479
Wheat	1,107	434	4,270	78,836	35,991	5,280
Grain, prepared—						
Flour	23	.....	861	176,297	183,147	231,142
Oatmeal	29	1	20	7,898	13,730	14,134
Hay and chaff	1,046	12,068	223	3,030	13,570	19,119
Jams and jellies	2,801	3,648	5,453	20,514	22,417	26,527
Potatoes	200	707	691	31,964	38,692	36,751
Sugar	736,746	547,944	474,330	.....	.....	.....
Aerated waters	1,647	1,581	2,063	7,687	7,973	10,435
Tobacco—						
Manufactured	869	4,330	4,334	55,928	60,559	64,886
Cigarettes ... ..	.....	57	14	20,188	25,402	31,098
Apparel and attire	46,106	50,692	51,006	76,104	85,267	100,448
Umbrellas	167	184	94	9,548	8,386	8,678
Boots and shoes	3,944	5,664	7,855	91,495	93,316	93,028
Hats and caps	2,269	2,808	2,660	23,266	25,561	38,219
Stationery	2,921	2,253	2,639	16,134	16,448	20,393
Jewellery	14,095	24,014	24,384	11,628	18,608	24,057
Machines and machinery	8,825	12,149	10,427	34,189	29,078	34,445
Metal Manufactures—N.E.I.	6,044	6,454	3,775	38,312	44,682	51,975
Wire-netting	106	3	20	9,399	16,869	18,065
Leather manufactures	1,283	2,137	1,722	8,605	8,991	9,125
Cement	7	.....	.....	24,734	27,567	27,726
Timber—building	14,010	17,511	15,534	1,324	4,886	5,254
Drugs and chemicals	232	539	752	11,542	13,147	15,896
Medicines	910	971	1,187	32,755	33,962	35,961
Blue ... ..	.....	1,745	1	3,894	3,368	4,472
Soap, N.E.I. ... ..	.....	105	340	10,718	10,771	14,398
Timber	38,365	65,706	44,512	8,379	10,500	15,288
Manures	2,208	1,358	1,117	1,582	3,513	5,134
Coal	1,474	2,538	2,387	31,313	30,212	26,611
Coke	13	4	21	23,881	49,416	47,087

SOUTH AUSTRALIA.

The trade with South Australia is somewhat similar to that carried on with Victoria, owing to the fact that Broken Hill is almost entirely supplied by it. The Barrier trade is a great advantage to South Australia, as Broken Hill, with its population of 31,000, is commercially a part of that State.

There are very few articles where there is an excess of exports to South Australia, the principal being biscuits, tobacco, cigarettes, pianos, medicines, coal, and coke. In practically all the other important items the balance is in favour of South Australia.

Article.	Australian Produce Imported from South Australia.			New South Wales Produce Exported to South Australia.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Butter... ..	60,219	47,336	43,802	4,997	14,017	10,758
Eggs	41,806	49,605	37,555	.....	.....	95
Meats—Bacon and ham	18,600	17,498	5,568	354	401	605
Biscuits	2,442	1,708	1,150	15,947	13,738	16,966
Fruits, fresh—						
Bananas	3,292	2,183	1,663	.....	.....	.....
Pine-apples ... ..	.....	68	17	.....	.....	.....
Apples	5,608	6,845	5,541	139	151	108
Oranges and lemons	7,152	6,031	4,710	96	172	50
Other	15,485	20,315	12,181	389	357	692
Fruits, dried—						
Currants	6,279	12,708	12,842	.....	.....	.....
Raisins	15,841	12,009	10,337	.....	.....	.....
Sultanas	4,066	7,577	11,154	.....	.....	.....
Vegetables	24,816	21,977	16,671	.....	8	160
Grain—Wheat	47,333	292,837	51,834	22,554	57	89
Grain, prepared—						
Flour	98,668	112,994	63,709	1,124	1,127	1,740
Malt	10,497	6,352	4,028	.....	.....	.....
Bran, pollard, and sharps	19,165	17,384	16,592	782	270	4,516
Hay and chaff	225,025	464,598	113,688	.....	87	24
Jams and jellies	8,568	8,234	11,376	514	262	307
Potatoes	7,845	11,510	9,817	588	638	843
Spirits—Brandy	17,177	15,419	9,730	.....	.....	.....
Wine	29,859	35,629	39,571	2,041	2,530	2,550
Tobacco—						
Manufactured	12,228	18,542	9,819	18,156	17,413	20,830
Cigarettes	7,574	6,615	6,427	19,186	20,488	21,386
Cigars	1,420	1,691	1,184	100	109	250
Salt	46,821	45,874	44,280	.....	.....	.....
Apparel and attire	36,393	30,731	24,745	16,534	15,187	15,702
Boots and shoes	42,703	29,930	33,587	6,510	6,364	5,599
Pianos... ..	3,586	1,584	2,278	12,484	12,550	10,242
Jewellery	19,627	13,879	6,809	19,484	10,649	19,827
Machines and machinery	63,521	17,979	22,412	8,484	6,519	7,504
Agricultural implements	8,833	6,287	9,653	279	511	638
Harvesters	1,847	5,419	11,581	.....	.....	.....
Metal manufactures—N.E.I.	4,951	15,565	12,020	5,601	7,577	9,169
Furniture	19,272	8,550	5,701	1,608	1,655	1,867
Drugs and chemicals	9,555	13,628	13,818	2,451	3,483	3,483
Medicines	5,534	4,869	4,700	24,589	22,121	26,588
Blue	128	351	127	3,124	2,976	2,628
Candles	15,351	11,870	10,392	6	40	1,203
Soap, N.E.I.	13,224	16,971	18,287	5,138	4,757	6,047
Timber	31,483	11,670	6,401	3,520	7,963	6,754
Manures	210	3,034	3,163	12,236	6,241	42
Coal ... ..	.....	54	26	342,549	348,905	248,060
Coke	549	400	147	61,003	64,168	7,048

WESTERN AUSTRALIA.

The import trade with Western Australia is practically nil, while the export trade has increased and is fairly valuable. The goods exported comprise principally coal, provisions, tobacco, pianos, and metal manufactures. Interstate trade with Western Australia has been absolutely free since 8th October, 1906. Prior to that date, under the Federal Constitution

Act, Western Australia could collect special duties on goods not originally imported from beyond the Commonwealth.

Article.	Australian Produce imported from Western Australia.			New South Wales Produce exported to Western Australia.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Butter...			10	63,834	127,001	187,067
Meats—Bacon and ham ...			6	1,265	6,880	5,559
Frozen mutton ...	8			27,836	18,135	14,487
Preserved ...		40	160	42,478	41,847	47,317
Bran, pollard, and sharps ...				11,086	2,445	20,043
Jams and jellies ...				4,192	6,053	4,574
Linseed cake ...				3,435	3,990	4,580
Tobacco—Manufactured ...			17	24,388	22,120	26,444
Cigarettes ...			49	11,041	12,430	16,068
Apparel and attire ...	395	1,043	1,093	9,363	9,346	7,295
Pianos...		173	20	10,666	13,837	11,780
Machines and machinery ...	363	1,179	92	3,506	5,065	5,090
Metal Manufactures—N.E.I. ...	294	119	227	6,673	5,194	5,431
Wire-netting...				4,771	4,029	1,093
Drugs and Chemicals ...	2	4	31	1,923	2,150	2,662
Medicines ...	11	30	24	17,864	18,249	18,056
Soap, N.E.I. ...		10	10	1,546	11,870	12,928
Manures ...				6,718	6,935	7,361
Coal ...				69,129	62,154	59,271

TASMANIA.

The principal articles imported from Tasmania are agricultural products in the shape of apples and other fruits, potatoes, oats, jams and jellies, hay and chaff, hops, and timber, while there is also a good market for Tasmanian ale. The exports are chiefly manufactured goods, apparel, boots, metal manufactures, medicines, soap, butter, biscuits, coal, and coke.

Article.	Australian Produce imported from Tasmania.			New South Wales Produce exported to Tasmania.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£	£	£	£
Butter...	175			12,053	20,110	17,903
Meats—Bacon and ham ...	22	97	1,247	3,776	4,934	2,651
Biscuits ...	33		14	8,612	8,396	10,058
Fruits, fresh—						
Apples ...	72,893	133,254	115,263		2	2
Oranges and lemons ...	3	6		4,678	4,477	3,854
Other ...	16,950	21,867	37,603	1,389	971	865
Vegetables ...	5,030	8,295	6,473	733	511	296
Grain—Oats ...	70,698	60,045	88,780			25
Flour ...	464	1,424	5,675		123	2
Jams and jellies ...	15,308	23,911	29,403	2,540	4,620	7,657
Potatoes ...	173,577	322,417	191,094		32	22
Hay and chaff ...	11,485	50,012	5,183		91	59
Ale and beer ...	4,257	3,804	4,442	3	161	44
Hops ...	19,398	16,246	14,430			
Apparel and attire ...	1,713	1,844	2,076	4,923	6,291	4,063
Boots and shoes ...	207	149	811	6,882	4,146	2,488
Pianos...		619	108	2,623	436	
Metal Manufactures—N.E.I. ...	287	707	313	6,183	11,623	5,288
Wire-netting ...				866	1,257	847
Cement ...				3,779	4,876	4,470
Drugs and chemicals ...	473	518	376	1,125	3,046	1,786
Medicines ...	20	19	40	6,397	7,099	6,504
Blue ...				536	829	734
Soap, N.E.I. ...		65		873	5,646	5,461
Manures ...				6,316	6,713	5,942
Timber ...	17,744	19,873	9,070	1,261	1,263	1,809
Coal ...				33,849	43,297	39,719
Coke ...				18,419	13,320	22,722

TRADE WITH THE UNITED KINGDOM.

As previous tables show, the direct trade with the United Kingdom is decreasing, the development of facilities for communication having caused a great increase in trade with the British possessions and with foreign countries.

A classification of the principal articles imported into the State from the United Kingdom during the year 1909 is given below:—

Article.	Value.	Article.	Value.
	£		£
Ale and beer	131,670	Hats and caps	140,923
Apparel and soft goods—		Instruments	116,046
Apparel and attire, N.E.I. ...	771,449	Jewellery and precious stones	203,470
Cosies, cushions, &c. ...	103,241	Leather	145,937
Curtains	28,270	Medicines	69,501
Gloves	73,003	Metals and Machinery—	
Piece goods	2,776,188	Implements, &c., agricul-	
Sewing silks, &c.	150,825	tural	45,357
Trimnings, &c.	53,523	Iron and steel	751,271
Arms, ammunition, and ex-		Machines and machinery ...	1,144,953
plosives	200,595	Metals, manufactures of ...	770,143
Blankets and blanketing ...	21,783	Rails, &c., for Railways ...	49,974
Books (printed), music, &c. ...	155,116	Milk and Cream, preserved ...	74,942
Boots and shoes	100,178	Oilmen's stores	64,754
Brushware (toilet and other) ...	30,655	Oils	85,669
Canvas and duck	67,411	Paints and colours	119,469
Carpets and carpeting	49,974	Paper	291,973
Cocoa and chocolate (ground) ...	88,448	Rubber and rubber manu-	
Confectionery	37,470	factures	67,587
Cordage and Twines—		Spirits	396,637
Metal	36,609	Stationery	76,786
Other	52,319	Tinned plates and sheets ...	124,356
Cutlery, N.E.I.	64,589	Tobacco	114,962
Drugs and chemicals	155,238	Tools of trade	100,016
Earthenware, &c.	52,513	Vehicles	255,439
Electrical materials	72,678	Watches, clocks, &c.	48,373
Fancy goods	96,151		
Fish (preserved)	61,946	Total, all Imports from United	12,333,869
Floor cloths and coverings ...	145,137	Kingdom.	
Glass and glassware	61,744		

The largest market for the surplus products of New South Wales is found in the United Kingdom, which takes more than one-third of the export to oversea countries. The value of the principal articles of New South Wales produce exported during 1909 was as follows:—

Article.	Value.	Article.	Value.
	£		£
Butter	687,825	Meats	1,038,099
Copper	427,574	Skins and hides	496,491
Gold	614,067	Tallow	613,885
Silver and lead	375,079	Wool	3,365,537
Tin, ingots	181,042		
Wheat	553,898	Total, New South Wales pro-	
Leather	185,493	duce exported to United	
		Kingdom	8,799,115

TRADE WITH BRITISH POSSESSIONS.

The following table shows the imports into New South Wales from the chief British possessions at decennial periods since 1870, and also for the year 1909:—

Possession.	1870.	1880.	1890.	1900.	1909.
	£	£	£	£	£
Canada	1,726	17,530	18,784	114,321	330,651
Cape Colony .. .. .	.. .. .	5	55	943	58,810
Ceylon	210,114	13,668	43,702	213,195	396,680
Fiji .. .. .	.. .. .	54,135	99,353	60,831	345,832
Hongkong	48,808	228,526	271,730	67,923	114,356
India	2,567	653	195,368	388,546	624,258
Mauritius	325,630	207,107	5,059	76,779	34,476
Natal .. .. .	.. .. .	.. .. .	.. .. .	70	18,173
New Zealand	298,951	460,735	932,073	1,348,605	1,213,082
Straits Settlements .. .. .	.. .. .	16,045	27,143	40,391	86,970
Other	60	1,665	1,626	42,150	123,350
Total	£ 887,906	1,000,069	1,595,398	2,353,759	3,321,638

As the table shows, imports from New Zealand, India and Ceylon, Fiji, Canada, and Hongkong amounted in 1909 to £2,995,335, or about 90 per cent. of the total from all British possessions.

New Zealand gave promise at a former period of becoming one of the leading customers of this State; but from various causes both the imports and the exports fell away very considerably. The export trade in commodities shows but little sign of recovery, while the value of the imports fluctuates with the character of the season in New South Wales, a bad year being always attended with large importations of New Zealand oats and other produce.

Hongkong commercially is a port of China, and a considerable portion of the Chinese trade with New South Wales is transacted *via* that port. The Indian trade has grown up almost entirely since 1880, but it fluctuates largely owing to the variable exports of gold specie. The Fiji trade is valuable, and shows a remarkable increase since 1900.

From New Zealand, the imports comprised gold bullion and specie, £536,791; New Zealand pine, £272,485; hides and skins, £56,717; flax, £30,504; horses, £40,147; cordage and twines, £13,222; fish, £10,667; barley, £12,170; and oats, £27,311; also copra, the produce of other islands of the Pacific, £42,902.

Amongst the chief imports from India were bags and sacks, £405,581; tea, £73,811; hessians, £71,051; and castor oil, £16,473. From Ceylon, tea to the value of £354,896 was imported during the year. The Indian and Ceylon teas have quite displaced the Chinese article in the public estimation; the imports from Hongkong and China having decreased from £241,331 in 1890 to £29,158 in 1909, while the value of Indian and Ceylon teas, imported during the same period, advanced from £43,317 to £428,707.

The chief articles imported from Fiji were copra, the value of which in 1909 amounted to £24,693; sugar, £219,589; molasses, £8,082; and bananas, £83,256. Trade in bananas and sugar, which had been greatly restricted by the Federal tariff, has recovered.

Prior to 1893 there was a fair import trade in lumber with Canada, but the establishment of a direct line of steamers between Sydney and Vancouver in that year had the effect of increasing the number of articles imported, and of creating a new export trade. The chief imports in 1909 were machines

and machinery, £29,425; medicines, £19,163; preserved fish, £14,976; rails, &c., for railways, £132,963; apples, £8,807; timber, £45,030; vehicles and parts, £15,962; and sewing silk, £9,768.

Hongkong furnished rice to the value of £24,125; tea, £21,951; China oil, £4,462; sugar, £6,982; and silk, £9,997.

Amongst the chief imports from other possessions may be mentioned gold bullion from New Guinea, valued at £47,640; from Mauritius, sugar, £34,387; manures (rock phosphates) from Ocean Island, £28,209; and rice from Burmah, £32,836.

The chief imports from the Straits Settlements comprised spices, £10,252; benzine, £12,433; kerosene oil, £16,326; sago and tapioca, £15,853; paraffin wax, £9,966; and rice, £4,750.

From Cape Colony maize to the value of £50,605 was imported; and from Natal, maize, £9,847, and tanning bark, £8,053.

The exports from New South Wales to the chief British possessions at the same periods were as shown below:—

Possession.	1870.	1880.	1890.	1900.	1909.
	£	£	£	£	£
Canada .. .. .	....	....	10	66,403	67,495
Cape Colony .. .. .	....	712	1,014	600,233	133,421
Ceylon	1,258,813	1,781	4,080	58,402	42,207
Fiji .. .. .	....	120,518	98,951	183,579	325,523
Hongkong	51,651	137,577	255,050	218,986	377,441
India	11,176	19,611	253,280	115,894	312,984
Mauritius	73,307	14,999	25,815	8,613	4,032
Natal .. .. .	....	....	....	155,254	99,643
New Zealand	197,025	525,174	294,113	326,662	1,037,460
Straits Settlements	2,421	5,392	34,347	39,898	215,414
Other .. .. .	....	2,915	1,654	40,973	99,421
Total	£ 1,594,393	828,679	968,314	2,314,897	2,764,981

From the above table it will be seen that the bulk of the exports is taken by New Zealand, Hongkong, Fiji, and India, in the order named, these possessions receiving nearly two-thirds of the total exports to all British possessions in 1909.

The chief exports to India were gold bullion, £205,237; horses, £20,123; timber, rough, £25,168; and coal, £34,151. Ceylon received in 1909 gold bullion to the amount of £10,004; and gold specie, £23,000.

Amongst the principal exports to Cape Colony were wheat, £18,406; and leather, £53,104. Sugar, valued at £39,524, was re-exported to Cape Colony.

To Natal there was an export of meats, £22,870, and sugar, valued £42,000, was re-exported. The trade with South Africa, which assumed considerable proportions during the war, fell away largely in 1903, nevertheless, the accessibility of its markets makes the possession a convenient outlet for Australia's exportable surplus of forage and foodstuffs.

Shipments for 1909 to Hongkong included timber, rough, £28,531; coal, £17,908; pig lead, £21,871; flour, £13,220; and gold specie, £257,929.

New Zealand received gold specie to the amount of £102,800; undressed timber, £80,196; coal, £119,972; manures, £55,611; fresh fruit, £39,537; soap, £20,858; and flour, £25,263. Articles re-exported to New Zealand were machinery, £35,566; instruments, £34,137; tea, £46,045; sugar, £11,731; and piece-goods, £36,603.

During 1909 the exports to Fiji included coal, £15,688; biscuits, £13,907; bran, pollard, and sharps, £21,921; flour, £17,740; apparel, £13,118; metal manufactures, £18,957; and gold specie, £35,000.

The principal exports to the Straits Settlements were coal, £78,201; tin ore, £100,887; and flour, £27,935.

The principal exports to Canada were butter, £13,529; skins and hides, £16,100; meats, £17,143.

TRADE WITH FOREIGN COUNTRIES.

The total value of the trade of the State with countries other than those under British dominion is appreciably increasing.

Every year steamers of greater tonnage and higher speed are visiting the Commonwealth of Australia from Europe, and a considerable expansion of commerce must take place, owing to the new outlets for trade which have thus been provided. The values of the imports into New South Wales from the principal foreign countries during the period 1870-1909 were as shown below:—

Country.	1870.	1880.	1890.	1900.	1909.
	£	£	£	£	£
Belgium .. .. .	...	...	130,819	147,661	463,582
France and New Caledonia	66,119	160,348	201,761	298,593	176,002
Germany .. .. .	...	47,169	630,475	1,105,664	1,120,180
Netherlands and Java	71,365	136,640	122,342	103,493	607,849
Norway .. .. .	...	...	20,891	77,506	110,301
Italy .. .. .	...	...	23,961	92,732	117,496
Sweden .. .. .	...	...	9,852	31,301	107,415
China	258,412	358,129	241,840	190,456	11,906
Japan .. .. .	...	5,419	22,040	122,041	270,984
South Sea Islands	13,024	42,789	40,214	107,483	132,542
United States	154,799	387,056	859,102	2,557,961	2,014,962
Other Foreign Countries	252,927	16,730	29,624	284,629	98,853
Total	£ 816,646	1,154,280	2,341,951	5,120,115	5,232,512

As the table shows, the imports from the United States amounted, in 1909, to £2,014,962, or two-fifths of the total imports from all foreign countries. Next in order comes Germany with £1,120,180, followed by Java with £560,972, Belgium with £463,582, and Japan with £270,984.

At one time the United States was the largest foreign market for the exports of this State, but the direct shipments of wool to the Continent of Europe, which are steadily increasing, have placed it below Germany, France, and Belgium, although the large shipments of gold in several years may seem to indicate otherwise. The import trade with America, however, is still greater than that transacted direct with the principal Continental countries, although the imports from Germany are growing, and, moreover, some foreign products are sent to the State by way of Great Britain.

The direct trade between this State and Belgium began in 1881, and may be attributed, to a large extent, to the International Exhibition held in Sydney during 1879-80. In point of value the Belgian trade of the State is larger than that of any foreign country, Germany, the United States, and France excepted; but the port of Antwerp, which receives the bulk of the trade, is a distributing centre for a great part of the wool destined for French, German, and other Continental markets, and it is not possible to say how much of the goods shipped to Belgium are for local requirements.

A large trade has been maintained with Germany since 1879, and has attained considerable dimensions, exceeding that with any other foreign country, although the customs returns may not always disclose this fact.

The French trade has risen in importance since 1881, but it has been accompanied by a corresponding falling-off in the trade with New Caledonia, the chief dependency of France in the South Pacific. Thus, while in 1890

the total value of French imports and exports amounted to only £351,795, as against £3,357,545 in 1909, that of New Caledonia fell during the corresponding period from £277,309 to £130,315. As already shown, New Caledonia is an important market for the produce of the State, though its value has been affected by the establishment of regular communication between France and her dependency, and by increases in the French tariff during recent years.

Regular communication with Java and other islands of the East Indies is now conducted by steamers of British, German, and Dutch lines, and there has been a considerable increase in the direct trade with New South Wales.

The other foreign countries whose trade with New South Wales is of importance, are China and Japan. The imports and exports of Hongkong, however, belong in reality to the Chinese Empire generally, and the diminution which has taken place in the China trade since 1881 is to be attributed largely to the transference of part of the trade from the ports of the Empire to Hongkong. But, when allowance is made for this transference, it will be found that the actual loss of trade is considerable. The main import from China is tea, £7,207, which exhibits a falling-off, the decline being attributable to the large consumption of Indian and Ceylon teas. The direct export trade amounted to £54,672, the principal item being copper ingots, £23,100.

The war with China gave Japan a new importance, which was enhanced by the Russo-Japanese conflict, so that in the future Japan may be expected to offer a large market for many of the products of New South Wales.

The imports from the United States consisted of a large number of articles, amongst the principal being preserved fish, £55,590; talking machines, £103,867; rails, &c., for railways, £63,235; machinery, £303,697; metal manufactures, £172,942; kerosene oil, £179,501; lubricating mineral oil, £32,149; printing paper, £55,937; tobacco, £114,621; tools of trade, £33,995; vehicles and parts, £20,859; timber, £309,862; apparel, £27,765; arms, ammunition, explosives, £38,409; boots and shoes, £18,887; iron and steel, £26,183; and medicines, £22,587.

The chief imports from Germany included ale and beer, £21,389; wearing apparel, £64,692; fancy goods, £34,038; pianos, £80,846; china ware, £20,960; jewellery, £29,110; iron and steel, £20,199; drugs and chemicals, £28,612; glass and glassware, £37,726; machinery, £73,843; metal manufactures, £182,344; piece-goods, £29,195; paper, £72,948; rails, &c., for railways, £24,329; and spirits, £32,660.

From France the chief imports in 1909 were cream of tartar, £52,853; and corks and bungs, £11,187.

The list of imports from Belgium is lengthy, and liable to fluctuations. The principal articles were iron and steel, £61,180; glass and glassware, £43,514; matches and vestas, £15,624; wine, £24,749; metal manufactures, £63,792; vehicles, £14,953; apparel, £15,877; jewellery, £14,051; paper, £20,362; piece-goods, £21,973; materials for railways, £24,476; and zinc, £22,779.

From Norway, timber and paper of the value of £35,675 and £35,624, respectively, were received during the year, also calcium of carbide, £31,349; and from Sweden, timber, £53,004; paper, £23,640; and matches, £8,625.

The chief imports from Italy were dried fruits, £13,623; citrons, £12,657; hats and caps, £19,956; vehicles and parts, £12,252; from Greece, dried fruits, £13,299; and from the Netherlands, gin, £12,923.

From Japan the chief items were silk, £108,972; apparel, £21,009; oils, £18,159; sulphur, £16,259; and timber, £12,967.

The principal articles of import from Java were sugar, £461,364; kapok, £40,226; rice, £21,748; maize, £11,673; and tea, £17,633; and from the Philippines, flax, £10,903; and cigars, £15,658.

Maize, £10,264, was imported from the New Hebrides; copra, £125,193 from the South Sea Islands; and rubber, £11,178 from New Caledonia.

The exports from New South Wales to the countries mentioned in the preceding table were as appended:—

Country.	1870.	1880.	1890.	1900.	1909.
	£	£	£	£	£
Belgium .. .. .	.....	.....	1,011,846	620,349	2,113,515
France and New Caledonia	53,257	181,847	427,313	1,204,059	3,311,898
Germany .. .. .	.....	.....	404,280	844,495	4,150,303
Netherlands and Java	25,981	11,042	50,358	86,203	183,224
Italy .. .. .	.....	.....	24,498	61,132	105,353
Norway .. .. .	.....	.....	.....	.....	4
Sweden .. .. .	.....	.....	.....	.....	3,969
China	17,516	14,844	1,037	63,004	54,672
Japan	52	6,581	7,156	133,989	833,092
South Sea Islands	131,918	52,657	66,714	126,851	191,239
United States	38,817	172,648	1,300,375	3,981,242	1,053,677
Other Foreign Countries	35,349	32,860	169,988	470,809	882,974
Total	£ 302,890	472,488	3,463,565	7,597,133	12,895,370

Most of the exports were sent to Germany, France, Belgium, and the United States, these four countries taking about 82 per cent. of the total exports to all foreign countries. A classification of the chief articles of export to these countries is appended:—

Article.	Belgium.	France.	Germany.	United States.
	£	£	£	£
Coal .. .. .	.....	.....	2,611	57,430
Copper	246,437	31,140	25,844	174,516
Concentrates—Silver and silver-lead	78,962	.....	16,508	.....
Zinc	183,894	.....	54,129	.....
Lead	50,103	13,953	62,640	2,314
Sausage-casings	941	1	51,228	1,629
Silver and silver-lead	9,713	1,260	82,931	28,055
Sheepskins with wool	20,166	145,726	5,655	2,603
Hides and other skins	70,122	30,376	117,525	298,224
Tin	48,584	1,330	4,273	8,028
Wolfram ore	1,841	10,600	27,259	.....
Wool	1,366,218	2,952,694	3,615,162	407,687

In consequence of the removal of the American duty there has been a great increase in the export of hides and skins to the United States.

The exports to the Netherlands included pig lead valued at £26,580; silver and silver-lead concentrates, £23,435; and zinc concentrates, £21,379.

Italy took wool to the value of £65,343; skins and hides, £14,690; and pig lead, £10,385.

There has been a considerable expansion in the trade with the East during the last decade. Japan has established a national line of steamers to foster the trade between that country and Australia, and during 1909 received from the State exports valued at £833,992, the chief items being gold specie, £500,000; wool, £237,923; and pig lead, £47,905.

Copper ingots to the value of £23,100 were sent to China; and pig lead, £13,716.

The Philippine Islands received coal, £121,658; frozen meat, £10,215; flour, £60,602; and butter, £14,989.

The chief exports to Java in 1909 were coal, £34,132; flour, £15,286; and horses, £16,563.

The exports to the South Sea Islands consist chiefly of foreign goods re-exported; the principal articles were apparel, £8,178; piece-goods, £16,367; metal manufactures, £7,157; tobacco, £12,809; rice, £13,472; gold specie, £20,980; biscuits, £9,144; and flour, £10,352. The last two articles mentioned were almost entirely the produce of New South Wales.

New Caledonia received exports to the amount of £97,081, including flour, £32,226; sugar, £5,613; coal, £3,470; and kerosene oil, £3,777.

The value of coal exported to Chile was £258,478; and to Peru, £22,863. The Hawaiian Islands received coal, £35,694, and sulphate of ammonia, £10,564.

During 1909 there were large shipments of wheat to Spain and the Canary Islands, the values being £49,762 and £48,533, respectively.

IMPORTS FOR HOME CONSUMPTION.

The net imports into New South Wales during 1909 amounted to £29,643,581, or £18 4s. 11d. per head of population. Of this amount £11,089,527 represented the value of Australian produce, and £18,554,054 the value of British and foreign produce. The former, however, includes a fair proportion of goods made from articles of extra-Australian origin. Excluding specie and bullion, the figures are: Australian produce, £9,668,590; British and foreign produce, £18,555,796; total, £28,224,386.

The following statement shows the net imports during the last six years, and the equivalent rates per head of population; stimulants and narcotics being distinguished from other goods:—

Year.	Net Import.			Per Head of Population.		
	Stimulants and Narcotics.	All other Articles.	Total.	Stimulants and Narcotics.	All other Articles.	Total.
	£	£	£	£ s. d.	£ s. d.	£ s. d.
1904	740,505	16,237,689	16,978,194	0 10 3	11 4 6	11 14 9
1905	775,944	19,930,728	20,706,672	0 10 6	13 9 7	14 0 1
1906	852,930	20,412,353	21,265,283	0 11 3	13 9 7	14 0 10
1907	1,105,158	27,300,896	28,406,054	0 14 3	17 11 2	18 5 5
1908	1,151,684	27,925,369	29,077,053	0 14 6	17 11 7	18 6 1
1909	1,024,471	28,619,110	29,643,581	0 12 7	17 12 4	18 4 11

The above figures show the wonderful recovery in the spending power of the people. Since 1904, and following the long drought, the net import of stimulants and narcotics has increased by 2s. 4d. per head, or 23 per cent., and of all other articles taken together by £6 7s. 10d. per head, or 58 per cent.

CUSTOMS AND EXCISE REVENUE.

On the 1st January, 1901, the Department of Customs and Excise was transferred to the control of the Commonwealth. Previously it had been administered by the State. On the 8th October, 1901, the first uniform Federal tariff was introduced in the Federal Parliament, and thereupon the State tariff ceased to have effect. On 8th August, 1907, a new tariff was introduced, which superseded that of 1901, and duties were altered, in many cases being increased considerably. The duties of Customs and Excise are now collected under the Customs Act (No. 7 of 1908), and the Excise Tariff (No. 8 of 1908).

The following statement shows the amounts collected under each division of the tariff during 1909, and also shows the Interstate adjustments, and refunds and drawbacks:—

Tariff Division.	Credited.			Debited.				Net Revenue Collected
	Gross Collections.	Inter-state Credits.	Total.	Draw-backs.	Re-funds.	Inter-state Debits.	Total.	
	£	£	£	£	£	£	£	£
Customs—								
I. Stimulants	992,042	36,287	1,028,329	65	551	105,448	106,064	922,265
II. Narcotics	492,072	44,089	536,161	.....	71,154	100,751	171,905	364,256
III. Sugar	193,714	7,002	200,716	2,378	22	859	3,259	197,457
IV. Agricultural products and groceries	361,174	20,154	381,328	9,734	1,109	19,538	30,381	350,947
V. Apparel and textiles	717,426	75,116	792,542	11,958	3,716	88,388	104,062	688,480
VI. Metals and machinery	432,567	25,044	457,611	7,284	3,717	32,476	43,477	414,134
VII. Oils, paints, and varnishes	82,542	5,052	87,594	4,621	452	8,413	13,486	74,108
VIII. Earthenware, cement, china, glass, and stone	88,327	5,781	94,608	1,152	1,340	6,203	8,695	85,913
IX. Drugs and chemicals	34,732	3,213	37,950	1,544	393	3,799	10,741	27,209
X. Wood, wicker, and cane	130,516	7,239	137,755	2,132	1,466	4,191	7,789	129,966
XI. Jewellery and fancy goods	100,318	20,105	120,423	3,282	810	32,098	36,190	84,233
XII. Leather and rubber	86,772	23,006	109,778	3,279	290	20,191	23,780	86,018
XIII. Paper and stationery	66,478	5,019	71,497	1,009	523	7,298	8,225	62,572
XIV. Vehicles	44,235	3,686	47,921	430	275	2,997	3,702	44,219
XV. Musical instruments	33,930	2,003	35,933	396	170	5,067	5,633	30,300
XVI. Miscellaneous	87,622	7,459	95,081	3,079	842	10,944	14,365	80,216
Total, Customs	3,944,967	290,260	4,235,227	52,433	86,840	453,661	592,934	3,642,293
Excise—								
Bear	188,024	3,389	191,413	206	.....	2,609	2,815	188,598
Spirits	83,572	4,712	88,284	4	40	1,743	1,787	86,497
Sugar	178,326	25,952	204,278	510	.....	9,251	9,761	194,517
Tobacco, &c.	375,501	37,944	413,445	.....	.....	149,565	149,565	263,880
Starch	4,196	6,613	10,514	8	.....	160	168	10,646
Licenses	2,211	.....	2,211	.....	13	.....	13	2,198
Total, Excise	831,830	78,615	910,445	728	53	163,328	164,114	746,331
Total, Customs and Excise	4,776,797	368,875	5,145,672	53,161	86,893	616,989	757,048	4,388,624

Nearly half the revenue is obtained from the duties, customs and excise, on stimulants and narcotics. Of the other divisions apparel and textiles contribute the largest amount, and then come the divisions comprising metals and machinery, and agricultural products and groceries.

The amount collected from customs and excise, and the proportion per head of population during the last fourteen years, have been as follows. A tariff on a freetrade basis was in force in the State in the year 1896, and continued in existence until October, 1901, when the first Commonwealth tariff was imposed:—

Year.	Net Amount collected from Customs and Excise.	Per Head of Population.	Year.	Net Amount collected from Customs and Excise.	Per Head of Population.
	£	£ s. d.		£	£ s. d.
1896	1,637,078	1 5 9	1903	3,384,458	2 7 7
1897	1,520,116	1 3 7	1904	3,094,608	2 2 9
1898	1,551,827	1 3 8	1905	3,112,368	2 2 1
1899	1,660,333	1 4 11	1906	3,352,444	2 4 3
1900	1,773,993	1 6 3	1907	4,170,046	2 13 8
1901	2,475,729	1 16 1	1908	4,273,417	2 13 10
1902	3,116,052	2 4 9	1909	4,388,624	2 14 0

Under the Federal tariff the contributions to Customs and Excise have increased by £1 8s. per head.

ROADS AND BRIDGES.

For some years subsequent to its first colonisation, settlement within the State was restricted to that portion of the territory lying between the Pacific Ocean and the Great Dividing Range. Here, by the aid of convict labour, main roads were formed, connecting the infant towns of Parramatta, Liverpool, Windsor, and Penrith with the metropolis. All access to the interior of the country was barred by the apparently insurmountable sandstone precipices rising on the farther side of the Nepean, and until 1813 no effort to cross the mountains was attended with success. In that year, however, after a protracted season of drought, involving heavy losses of stock, the settlers recognised that the future of the country depended on an extension of the pastoral area beyond its then contracted limits, and three explorers, Wentworth, Blaxland, and Lawson, again essayed the task of finding a way over the mountains. After encountering tremendous difficulties, they succeeded in crossing the range, and discovered the rich pastures of the Bathurst Plains. Shortly after their return, Governor Macquarie despatched a party of surveyors to determine the practicability of making a road. Their report was favourable, the construction of a track was at once begun, and the Great Western Road was completed as far as Bathurst on the 21st January, 1815.

The opening up of the fertile lands around Bathurst by means of this mountain road gave such an impetus to settlement that it was found impossible to keep pace in the matter of road-making with the demands of the settlers. The authorities, therefore, for many years confined their attention to the maintenance of roads already constructed, and extended them in the direction of the principal centres of settlement. Had the progress of settlement subsequent to 1850 been as slow as that of the preceding years, this system would have sufficed; such, however, was not the case. The discovery of gold completely altered the circumstances of the State, and during the period of excitement and change which followed, so many new roads were opened, and traffic increased to such an extent, that the general condition of the public highways was by no means good. While yeoman service was done by the road pioneers prior to 1857, the modern system of road-making may be said to have begun in that year, consequent on the creation of the Roads Department, which was formed to take control of the roads. It was not, however, until 1864, that the whole of the roads, both main and subordinate, received consideration at the hands of the State.

The principal main roads of the State are:—

- Northern Road—length, 405 miles, from Morpeth to Maryland, on the Queensland border.
- Western Road—length, 513 miles, from Sydney, through Bathurst, Orange, and many other important townships, to the Darling River, at Bourke.
- Southern Road—length, 385 miles, from Sydney to Albury. This road was, before the construction of the railway, the great highway between Sydney and Melbourne.
- South Coast Road—length, 250 miles. This road after leaving Campbelltown, ascends the coast range, along the top of which it runs as far as Coal Cliff. It then traverses the Illawarra district, parallel to the coast, and passes through the rich lands watered by the Shoalhaven, Clyde, and Moruya Rivers, as far as Bega, whence it extends as a minor road to the southern limits of the State.

In no case has any of these roads the importance which it formerly possessed. The railways of the State for the greater part follow the direction of the main roads, and attract nearly all the through traffic. Thus many roads on which heavy expenditure has taken place have been more or less superseded, and the opening of new roads has been rendered necessary to act as feeders to the railways from outlying districts. The limited funds placed at the disposal of the Department for expenditure on works have not been sufficient to cope with the demands of settlement, and the greater proportion of the expenditure has been devoted to the upkeep of existing works. The postponement of the extension of works and the opening of new roads and deviations, many of an important character, is a matter for regret, as there is evidence on all sides of a general increase in settlement on the land, which will probably be retarded by insufficiency of access. In many places the subdivision of both Crown and private lands for closer settlement has given an impetus to cultivation and dairying; and especially in the latter case is it necessary to provide for constant traffic, which, from the nature of the industry, requires good roads in all seasons.

With the expansion of closer settlement an important departure has been made from the policy hitherto pursued of opening roads after settlement has taken place. Under the old system, settlers took up the land, which, in course of time, became more valuable by reason of the improved approaches provided at the expense of the State. But many large areas have been made available during recent years, and it has been decided that roads of access shall be made fit for traffic, as far as possible, before the blocks are offered for selection. The Department has the opportunity of selecting routes on the most suitable gradients and locations, thus avoiding the expense of establishing deviations hereafter, while the Crown will be recouped to some extent for the outlay incurred by the additional value received for the land. The most notable of these cases is the system of roads in the Dorriggo subdivision.

Prior to 1907, when the Local Government Act came into effect, the State was divided into road districts, each of which was placed under the supervision of an officer directly responsible to the Commissioner for Roads. These officers had under their care the greater part of the roads of the State outside the incorporated areas, as well as a portion of those within such limits. The road trusts had the supervision of the expenditure of certain grants for the maintenance of roads in districts chiefly of minor importance, as well as some important roads in the vicinity of the metropolis.

The length of roads under Government control on the 30th June, 1906, was 48,311 miles, while 195 miles were under the care of road trusts, and 1,338 miles within the municipal areas were subsidised by the Department, making a total of 49,844 miles. There were also about 8,000 miles of roads and streets belonging to the municipal councils. In addition to the roads mentioned, there were about 1,500 miles of mountain passes, many of which presented most formidable difficulties, and their construction reflects great credit upon the engineering skill of the Department, which for so many years designed and supervised the construction and maintenance of the roads and bridges of the State.

On the 1st January, 1907, the bulk of the works under the control of the Roads and Bridges Department (with the exception of those in the unincorporated areas of the Western Division, and certain bridges and ferries proclaimed as "national works") were transferred by the operation of the Local Government Act of 1906 to the shires and municipal councils. Power is given to the Minister for Works to pay subsidies to the councils to maintain the roads and for the satisfactory maintenance of such thoroughfares as were proclaimed main roads prior to the passing of the Act.

The roads leading to and within the areas of Crown lands which it is proposed to make available for closer settlement will be constructed by the Government before transfer to the shires, also certain roads required mainly for tourists in districts not likely to produce revenue in rates to the councils. The length of roads in the State in 1909 was, approximately, 82,487 miles, of which 9,566 miles were controlled by the municipalities, 66,731 miles by the shires, and 6,190 miles were in the unincorporated areas of the Western Division.

Divisions.	Metalled, Gravelled, Ballasted, &c.	Formed only.	Cleared only.	Natural surface.	Total.
	miles.	miles.	miles.	miles.	miles.
Municipalities	3,515	1,723	2,048	2,280	9,566
Shires	10,014	7,238	20,488	25,991	66,731
Western Division	80	137	2,669	3,304	6,190
Total	13,609	9,098	25,205	34,575	82,487

Of the earliest bridges erected in the State many were built of stone, and are in existence still. Those erected in the period following the extension of settlement to the interior were principally of timber, and have since been replaced, after an average life of about twenty-five years. Nearly all the large bridges of recent date are of iron and steel, and some of them have been erected under difficult engineering conditions, owing to the peculiarity of the river flow in certain parts of the country. Perhaps the most important of these works constructed in the State are the Pyrmont and Glebe Island bridges. The total length of the Pyrmont structure and its approaches is 1,758 feet. The bridge itself spans a distance of 1,209 feet, of which the swing span represents 223 feet, the remainder being covered by the twelve side spans, each of 82 feet 4 inches. The swing span, weighing 800 tons, is carried on a pivot which has its foundation on a caisson of 42 feet diameter, sunk to a depth of 62 feet. Its floor space is 12,000 superficial feet, as against 10,600 on the Newcastle-on-Tyne bridge, and the roadway is 4 feet wider than that on the Tower Bridge of London. The swing is operated by two 50-h.p. electrical motors supplied with power from the Ultimo Power-house, and can be opened or closed in forty-four seconds, at a cost of five farthings for the double operation, which includes the opening and closing of the gates as well as the swing. The total cost of this bridge was £145,189.

The Glebe Island Bridge is over 2,390 feet long, and consists of a steel swing bridge in the centre of the bay, with a stone causeway approach to either shore. A steel over-bridge is provided on the Glebe side to permit of traffic thereunder to the area on the northern side of the bridge, which has been made by partly cutting down Glebe Island, and reclaiming with the debris a valuable deep-water frontage of 2,800 feet, with 13 acres of level land, which will be connected with the railway system of the State by a short line to Petersham, recently authorised. The main bridge is 353½ feet long between abutments, and possesses a steel swing span 191 feet 2 inches long, affording two clear waterways, each of 60 feet, for shipping, as against one of 34 feet in the old swing. This increase in waterway will permit of the passage of large over-sea vessels, thus opening up the great possibilities of the frontages to the south of the bridge. The two steel side spans are 81 feet 2 inches centres, affording 20 feet clear headway above high-water mark in lieu of the 12 feet available in the old bridge. The bridge is provided with a steel floor carrying a 40-foot wood-blocked carriage

way and two 5-foot footpaths, which will enormously improve the travelling facilities. The swing span, though smaller than at Pymont, contains a floor-space of 9,600 feet, which compares favourably with the swings in Clarence Bridge at Cardiff (7,640 square feet), the Hawarden Bridge (8,470 feet), or the bridges over the Manchester Ship Canal (9,430); and is but little less than that provided on the swing in the well-known bridge at Newcastle-on-Tyne, which is understood to have a larger floor-space than any other bridge in the United Kingdom. The total weight of the swing span of the Glebe Island Bridge is 650 tons, and it revolves on a cast-steel roller 37 feet in diameter, carrying steel-covered treads. The swing, as well as the gates cutting off the road traffic at either end of the swing span, are operated by electricity obtained from the Ultimo Power-house, and it is possible to open or close the swing in forty-four seconds. The cost of this bridge was £107,000.

On the 1st January, 1907, the period of the inception of the Local Government Act, the bridges of 20 feet span and over, including those in course of construction, numbered about 3,575. Of these, 256 bridges, of an aggregate length of 101,416 feet, which by reason of their cost, size, and extra-local importance would constitute a strain on the resources of the local councils, were proclaimed as "national works," and will be maintained by the Government.

Where local conditions and limited traffic have not favoured the erection of a bridge, a punt or ferry has been introduced. The most important ferries—eleven in number—which are worked otherwise than by hand, have been proclaimed as national. Prior to the 1st December, 1907, it was the practice to charge a small fee for ferry transit; but on that date tolls were abolished, and public ferries are now free.

The particulars of the bridges, culverts, and ferries of the State in 1909 are shown below:—

	Bridges 20 feet span and over.		Culverts.		Ferries.
	No.	Length.	No.	Length.	No.
		ft.		ft.	
National Works	265	105,322	.....	.....	11
Municipalities*	728	38,794	3,737	112,000	16
Shires	3,137	189,155	29,244	256,457	89
Western Division (unincorporated)	124	21,815	107	1,435	5
*Total	4,254	355,086	33,088	369,892	121

* Exclusive of works in four municipalities and of the length of 94 bridges and 58 culverts, which are not available.

Although roads as the main arteries of traffic from the metropolis to the interior have been superseded by the railways, nevertheless they are still the sole means of communication throughout a large part of the interior, and serve as most valuable feeders to the railway system of the country. No revenue is directly derived from roads, but their indirect advantages to the country have been very great, and, after the lands and the railways, they form the largest item of national property.

It is estimated that £24,500,000 has been expended by the Department on roads and bridges since 1857. In this expenditure is included the cost of administering the Department, services for other Departments, and payments on account of punt approaches and similar works incidental to the road traffic of the country. The amount expended from 1857 to 1880, and

in quinquennial periods since 1881, is given below. Until recent years, the expenditure on these works increased at a much faster rate than the population:—

Period.	Expenditure by Roads Department.	Expenditure by Trustees.	Total.
	£	£	£
1857 to 1880	5,430,923	782,907	6,213,830
1881 to 1885	3,227,172	124,972	3,352,144
1886 to 1890	3,417,509	171,211	3,588,720
1891 to 1895	3,301,569	122,959	3,424,528
*1896 to 1900	3,336,905	55,978	3,392,883
†1901 to 1905	3,340,299	28,944	3,369,243
†1906	457,421	1,171	458,592
†1907	407,268	549	407,817
†1908	158,005	.....	158,005
†1909	118,121	.....	118,121
Total	23,195,192	1,288,691	24,483,883

* Four and a half years only.

† Years ended June.

The amount expended during each year since 1907 has decreased, as the expenditure by the Department is now limited to the construction of roads in closer settlement areas and to the construction and maintenance of national bridges and ferries, and of works in the unincorporated areas of the Western Division. A large amount is expended in each year by the councils, the figures for 1908, including footpaths, kerbing, guttering, &c., were, by municipal councils £331,600, and by shires £514,115.

Year	Length of lines in operation	Length of lines under construction	Total
1855	14	—	14
1857	14	—	14
1859	14	—	14
1861	14	—	14
1863	14	—	14
1865	14	—	14
1866	14	—	14
1867	14	—	14
1868	14	—	14
1869	14	—	14
1870	14	—	14
1871	14	—	14
1872	14	—	14
1873	14	—	14
1874	14	—	14
1875	14	—	14
1876	14	—	14
1877	14	—	14
1878	14	—	14
1879	14	—	14
1880	14	—	14
1881	14	—	14
1882	14	—	14
1883	14	—	14
1884	14	—	14
1885	14	—	14
1886	14	—	14
1887	14	—	14
1888	14	—	14
1889	14	—	14
1890	14	—	14
1891	14	—	14
1892	14	—	14
1893	14	—	14
1894	14	—	14
1895	14	—	14
1896	14	—	14
1897	14	—	14
1898	14	—	14
1899	14	—	14
1900	14	—	14
1901	14	—	14
1902	14	—	14
1903	14	—	14
1904	14	—	14
1905	14	—	14
1906	14	—	14
1907	14	—	14
1908	14	—	14
1909	14	—	14
1910	14	—	14

RAILWAYS AND TRAMWAYS.

CONTROL OF STATE RAILWAYS.

UNTIL October, 1888, the control of the railways was vested in the Minister for Works, the direct management being undertaken by an officer under the title of Commissioner. But it was recognised that political influence entered unduly into the management of this large public asset, and, as a consequence, the "Government Railways Act of 1888" was passed, afterwards consolidated as the "Government Railways Act, 1901," with the object of removing the management of the railways from political control, and vesting it in three railway Commissioners, who report annually to Parliament, and pay net earnings into the Public Revenue. Under the Railway Commissioners Appointment Act of 1906, the management of the railways and tramways was placed in the hands of a Chief Commissioner; and two assistant Commissioners were appointed, one to assist in the management of the railways, and the other in that of the tramways.

While the avowed object of State railway construction has been to promote settlement, apart from consideration of the profitable working of the lines, the principle has nevertheless been kept in view that in the main the railways should be self-supporting.

RAILWAY CONSTRUCTION.

On the 26th September, 1855, the first railway-line (from Sydney to Parramatta), 14 miles in length, was opened for traffic, and communication was established between Newcastle and East Maitland by the 11th April, 1857.

During the twenty years which followed the opening of the first line, railway construction progressed at a very slow rate, for in 1875 the lines in operation had reached a length of only 435 miles, an average of 21½ miles per year; and during four years of the period, viz., 1859, 1865, 1866, and 1874, no fresh extensions were opened. From 1876 to 1889 greater activity was manifested, 1,748 miles being constructed during the period, a yearly average of 125 miles. This rate of increase was not sustained, only 14 miles being opened in the next three years. During the year ended June, 1893, 154 miles were opened; 150 miles in the succeeding year; and 30 miles in the year ended June, 1895. In the following year no new lines were opened; but during the year ended June, 1897, 108 miles were added, and in the course of the next twelve months, 52 miles. During the twelve years ended June, 1910, a further length of 937 miles was brought into use.

From the 7th September, 1899, the private line from Broken Hill to Tarrawingee, 40 miles 7 chains in length, also became the property of the State. Under an agreement between the Railway Commissioners and the Silverton Tramway Company, the Company works this line in conjunction with its own. The Government increased the mileage opened during 1901 by the purchase from private owners of a short line, 4 miles 41 chains in length, between Clyde and Carlingford.

The progress in construction of the State railways of New South Wales may be traced in the statement given below. Included in the mileage are the Campbelltown-Camden and Yass tramways, which are worked with the railways.

Period.	Opened during the period.	Total opened at end of period.	Year.	Opened during the year.	Total opened at end of year.
	miles.	miles.		miles.	miles.
1855-9	55	55	+1905	nil	3,281
1860-4	88	143	+1906	109	3,390
1865-9	175	318	+1907	63	3,453
1870-4	85	403	+1908	19	3,472
1875-9	331	734	+1909	151	3,623
1880-4	884	1,618	+1910	20	3,643
1885-9	553	2,171			
+1890-4	330	2,501			
+1895-9	205	2,706			
+1900-4	575	3,281			

† Year ended June.

Of the 3,643 miles in operation on the 30th June, 1910, there were 3,393 miles of single line, 241½ miles of double line, and 8½ miles of line with four tracks; in addition, there were 558½ miles of sidings and crossovers.

RAILWAY SYSTEMS.

The railways of the State are divided into three branches, each representing a system of its own.

The Southern system has several offshoots serving the richest and most thickly-populated districts, and places Sydney, Melbourne, and Adelaide in direct communication. From Culcairn there are two branch lines, one connecting with Corowa on the Murray River, and the other with Germantown; from The Rock a line extends to Lockhart; from Junee a branch extends to the town of Hay in one direction, and to Finley in another, and places the important district of Riverina in direct communication with Sydney. From Cootamundra a southerly branch carries the line to Tumut, and another in a north-westerly direction through Temora to Wyalong. During the year 1908-9 the extension from Temora to Ariah Park was carried 41 miles farther, to Barellan. From Murrumburrah a branch has been constructed to Blayney, on the western line, thus connecting the southern and western systems of the State, and from Koorawatha, on this connecting line, a branch has been laid down to join Grenfell with the railway system. Nearer the metropolis, the important town of Cooma is connected with Goulburn, bringing the rich pastoral district of Monaro into direct communication with Sydney. From Goulburn a branch line has also been opened to Crookwell. A small offshoot from the main southern line joins Campbelltown with Camden. Another line forming part of the southern system has been constructed to Nowra, connecting the metropolis with the coastal district of Illawarra, which is rich in coal and in the produce of agriculture. From the Illawarra line a branch extends between Sydenham and Bankstown with Liverpool as the ultimate objective.

The Western system of railways extends from Sydney over the Blue Mountains, and has its terminus at Bourke, a distance of 508 miles from the metropolis. Leaving the mountains, the western line, after throwing out a branch from Wallerawang to Mudgee and Gulgong, which is being extended to Dunedoo, enters the Bathurst Plains, and connects with the metropolis the rich agricultural lands of the Bathurst, Orange, and Wellington districts. Beyond Dubbo it enters the pastoral country. At Blayney, as before stated, the western line is joined with the southern system by a branch line to

Murrumburrah; at Orange a branch connects that town with Forbes on the Lachlan River, and from Parkes, one of the stations on this branch line, an extension to Condobolin on the Lachlan River has been constructed. At Bogan Gate a branch line to Tullamore has been opened. Further west branch lines extend from Dubbo to Coonamble, from Nevertire to Warren, and from Nyngan to the important mining district of Cobar. From Byrock a line branches off to Brewarrina. The western system also includes a short line from Blacktown to Richmond on the Hawkesbury River.

The Northern system originally commenced at Newcastle, but a connecting line has been constructed, making Sydney the centre of the whole of the railway systems of the State, and thus affording direct communication between Adelaide, Melbourne, Sydney, and Brisbane, a distance of 1,808 miles. The northern system has a branch from Werris Creek, *via* Narrabri and Moree, to Inverell, placing the Namoi and Gwydir districts in direct communication with the ports of Newcastle and Sydney. There is also a branch line from Narrabri to Walgett, with a further branch at Burren Junction to Collarenebri East, and the Tamworth-Manilla branch has been extended to Barraba. A portion of the North Coast railway has been constructed from Murwillumbah, on the Tweed River, to Grafton, on the Clarence River, having a length of 149 miles, and a branch from Casino to Kyogle was opened in 1910. Sections are now under construction which will connect Maitland, on the main northern line, with Taree, a distance of 140 miles. A short line, 13 miles in length, branches off the main northern line at Hornsby, and connects with the north shore of Port Jackson at Milson's Point.

COMPARISON OF RAILWAY FACILITIES.

The progress of the State railways can be fairly gauged by comparing the population and area of territory to each mile of line open for traffic at different periods. Thus, in 1860 there were 4,979 persons to each mile of line, but by the end of the year 1880 the work of construction had proceeded at a rate so much faster than the increase in population that the average number of persons per mile had fallen to 881, the facilities afforded by the railways being more than five times as great as in the earlier year. In 1910 the average population per mile of line was 459. The decrease in the area of territory to each mile of line open has been very rapid, ranging from 4,434 square miles in 1860 to 86 square miles in 1910. The following statement shows the extension of railway facilities since 1860:—

Year.	Population to each Mile of Line open.	Area to each Mile of Line open.	Year.	Population to each Mile of Line open.	Area to each Mile of Line open.
	No.	sq. miles.		No.	sq. miles.
1860	4,979	4,433·89	1902	461	102·57
1865	2,861	2,170·43	1903	452	98·91
1870	1,471	915·55	1904	441	94·60
1875	1,360	710·23	1905	451	94·60
1880	881	365·57	1906	447	91·56
1885	548	179·20	1907	450	89·88
1890	523	142·24	1908	456	89·39
1895	501	122·63	1909	448	85·67
1900	464	110·41	1910	459	85·67
1901	466	109·09			

GRADIENTS.

The railways of the State have been constructed with a large proportion of steep gradients, but much has been done during the last few years to remove this drawback. By reducing some of the gradients, and introducing locomotives of greater power than were employed formerly, considerable

economy in working, and expedition in traffic, have been effected. Much remains to be accomplished in this respect, as will be seen on reference to the following table, which shows the number of miles on different gradients in June, 1910:—

Gradients.	Southern System.	Western System.	Northern System.	Total.
1 in	miles.	miles.	miles.	miles.
18 to 30	3½	1½	.....	5½
31 „ 40	58	65½	33	156½
41 „ 50	64½	50½	76½	191½
51 „ 60	47	57	55	159
61 „ 70	53½	54½	35½	144
71 „ 80	88½	73½	86½	248½
81 „ 90	37½	37½	34½	109½
91 „ 100	73½	93½	67½	234½
101 „ 150	117½	121½	109½	351½
151 „ 200	75½	67½	65½	208½
201 „ 250	43½	28½	28½	100½
251 „ 300	56	50½	48½	154½
301 „ level	530	507	500½	1,537½
Total ..	1,248½	1,210½	1,142	3,601½

The above table is exclusive of the lines from Broken Hill to Tarrawingee, from Wollongong to Harbour, and from Liverpool to sidings, Collingwood, &c., of a total length of 41½ miles.

COST OF CONSTRUCTION.

The average cost of the whole of the lines has been £10,782 per mile, including all charges, except those for rolling-stock, machinery, furniture, and workshops—an amount which is by no means high, considering the character of some parts of the country through which the lines have been carried, and the cost of labour, which is greater in Australia than in most other countries. In considering in detail the figures given, it is interesting to note the comparatively low cost per mile of some of the extensions through pastoral country. These are known as the “pioneer” class, and are of a light and cheap kind, on which the produce of the settlers may be conveyed to the trunk lines at a reasonable speed, and at a cheaper rate than carriage by road. The average for the line from Parkes to Condobolin was £2,079 per mile; Jerilderie to Berrigan, £2,167 per mile; from Dubbo to Coonamble, £2,463 per mile; Burren Junction to Collarenebri East, £2,435 per mile; from Narrabri to Moree, £2,679 per mile; from Berrigan to Finley, £2,837 per mile; and from Byrock to Brewarrina, £2,683 per mile. The lines of the “pioneer” class, in a special manner, show that in certain districts of the State, railways capable of carrying the traffic can be constructed at an average cost far below that of the initial lines, since twenty-nine lines, with a total length of 1,241½ miles, have been constructed at an average cost of £3,529 per mile. The cost of construction of the various branches of the railway systems to the 30th June, 1910, is set forth in the following table:—

Lines opened for Traffic.	Length.	Total Cost.	Cost per Mile.
Darling Harbour Branch, Sydney	m. ch.	£	£
.....	1 42½	904,545	590,723
MAIN SOUTHERN LINE.			
Sydney to Granville	16 45½	2,771,831	167,261
Granville to Goulburn	123 27½	2,569,545	20,832
Goulburn to Wagga	178 59½	1,645,570	9,206
Wagga to Wodonga	79 17½	918,095	11,589

Lines opened for Traffic.	Length.	Total Cost.	Cost per Mile.
MAIN SOUTHERN LINE—continued.			
BRANCH LINES.			
Campbelltown to Camden	7 66½	45,879	5,853
Yass Tramway	2 73	29,230	10,036
Goulburn to Crookwell	36 6	158,960	4,406
Goulburn to Cooma	130 43½	1,383,191	10,595
Murrumburrah to Blayney, on Western Line	110 30	1,091,765	9,891
Koorawatha to Grenfell	32 13½	110,741	3,443
Cootamundra to Gundagai	98 56½	324,412	9,628
Gundagai to Tumut	31 34½	206,974	6,585
Cootamundra to Temora	38 28½	163,711	4,790
Temora to Wyalong	41 26½	120,503	2,915
Temora to Barellan	61 41½	190,760	3,101
Junee to Hay	166 19½	989,883	5,884
Narrandera to Jerilderie	65 14	408,852	6,273
Jerilderie to Berrigan	21 66	47,284	2,167
Berrigan to Finley	14 4	37,044	2,637
The Rock to Lockhart	24 52½	77,435	3,141
Culcairn to Germantown	16 61	59,445	3,546
Culcairn to Corowa	47 72½	224,260	4,681
MAIN WESTERN LINE.			
Granville to Penrith	19 67	609,508	30,725
Penrith to Bathurst	112 11	2,998,939	26,743
Bathurst to Dubbo	157 67	1,858,664	9,857
Dubbo to Bourke	225 51½	3,361,747	6,083
BRANCH LINES.			
Clyde to Carlingford	4 39½	33,472	7,454
Blacktown to Richmond	16 19½	177,668	10,938
Wallarawang to Mudgee	85 17½	979,184	11,490
Blayney to Murrumburrah (see Southern Line)			
Orange to Molong	23 53½	269,725	11,384
Molong to Forbes	72 76½	381,395	5,227
Parkes to Condobolin	62 69	130,587	2,079
Bogan Gate to Tullamore	37 66½	124,417	3,289
Dubbo to Coonamble	96 12	236,772	2,463
Nevetire to Warren	12 54½	40,994	3,233
Nyngan to Cobar—The Peak	85 34	319,666	3,759
Byrrock to Brewarrina	58 34	156,784	2,683
Mudgee to Gulgong	20 17½	83,886	4,149
MAIN NORTHERN LINE.			
Homebush (Sydney) to Waratah	96 42	2,116,914	32,291
Newcastle to Wallagarra	393 57½	5,161,577	13,110
BRANCH LINES.			
Hornsby to Milson's Point (Sydney)	13 36½	743,961	55,275
Bullock Island Branch	3 23½	583,576	177,177
Morpeth Branch	3 38½	61,482	17,661
Werris Creek to Narrabri	99 6½	602,509	6,081
Narrabri to Moree	60 00	160,766	2,679
Moree to Inverell	95 65½	317,736	3,316
Narrabri West to Walgett	106 58	321,342	3,011
Burrin Junction to Collarenebri East	64 77½	302,171	2,435
Tamworth to Manilla	29 72½	87,554	2,927
Manilla to Barraba	31 79	153,975	4,814
NORTH COAST LINE.			
Lismore to Murwillumbah	63 59	914,543	14,349
Lismore to Casino	18 14½	130,956	7,202
Grafton to Casino	67 15½	295,093	4,392
Casino to Kyogle	17 71½	81,483	4,555
SOUTH COAST (ILLAWARRA) LINE.			
Sydney to Kiama	72 46½	2,030,442	27,959
Kiama to Nowra	22 46½	361,743	16,017
BRANCH LINE.			
Sydenham to Bankstown	9 18½	256,147	27,748
BROKEN HILL LINE.			
Broken Hill to Tarrawingee	40 7	32,575	813
Total all Lines	3,642 75	39,279,868	10,782

The amount expended on rolling-stock to the 30th June, 1910, was £9,645,480, viz.—Rolling-stock, £7,816,359; machinery, £438,276; workshops, £680,809; furniture, £10,036; stores advanced, £700,000. This makes the total cost of all lines open for traffic, £48,925,348, or an average of £13,430 per mile. The growth of the capital expenditure on lines open may be seen in the following table:—

Year.	Capital expended during period.	Total capital expended on lines open.	Year.	Capital expended during period.	Total capital expended on lines open.
1855-9	1,278,416	1,278,416	1895-9	2,137,005	37,992,276
1860-4	1,353,374	2,631,790	1900-4	4,296,241	42,288,517
1865-9	2,049,539	4,681,329	1905	774,033	43,062,550
1870-4	2,163,217	6,844,546	1906	563,513	43,626,063
1875-9	3,561,949	10,406,495	1907	1,074,167	44,700,230
1880-4	9,673,643	20,080,138	1908	983,254	45,683,484
1885-9	9,759,029	29,839,167	1909	1,929,182	47,612,666
1890-4	6,016,104	35,855,271	1910	1,312,682	48,925,348

Of the £48,925,348 expended on lines open for traffic on the 30th June, 1910, an amount of £512,154 has been provided from the Consolidated Revenue of the State, leaving a balance of £48,413,194, which has been raised by the issue of debentures and other stock. The net revenue for the year ended 30th June, 1910, after paying working expenses, was £2,209,306, which gave a return of 4.52 per cent. upon the total capital expenditure on the lines open for traffic, and 4.56 per cent. upon the gross loan capital involved.

REVENUE RETURNS AND WORKING EXPENSES.

A statement of the working expenses and earnings of the railways during the year ended 30th June, 1910, is shown below:—

Working Expenses.	Earnings.
£	£
Maintenance of Ways, Works, and Buildings	Passengers
Locomotive Power	Parcels, Horses, &c., and Mails
Carriage and Waggon Repairs and Renewals	Total Coaching
Traffic Expenses	Goods—
Compensation	Merchandise
General Charges	Live Stock
Gratuities	Wool
Fire Insurance Fund	Minerals
	Total Goods
	Rents
	Miscellaneous
	Total
Balance, Net Earnings	
Total	

The expenditure on locomotive power amounted to 38.3 per cent. of the total; traffic expenses to 26.0 per cent.; and maintenance of ways, works, and buildings to 21.3 per cent. Of the earnings 33.3 per cent. was derived from the carriage of passengers, 5.5 per cent. from parcels, &c., and 60.0 per cent. from the conveyance of goods of all kinds.

The contrast between the present condition of the railways of New South Wales and that which prevailed at their humble beginning in 1855 is remarkable. For the first ten years of the period under review the larger part of the railway earnings was obtained from the passenger traffic, no doubt owing to the fact that the first railways were entirely suburban. It was not until the line crossed the mountains and opened up the interior that the proportions changed, and the goods traffic became the principal source of revenue. This change began to take place in 1867.

A comparison between the earnings of the period prior to 1871—when the net result every year represented only a small proportion of the interest due on the capital expended in the construction of the lines—and of the subsequent period, affords matter for satisfaction. The following table shows the gross earnings, working expenses, and the proportion of the expenditure to receipts, in various periods from 1855 up to the 30th June, 1910. Since the year 1887 the railway accounts have been made up to the 30th June in each year:—

Year.	Gross Earnings.	Working Expenses.	Proportion of working expenses to gross earnings.	Year.	Gross Earnings.	Working Expenses.	Proportion of working expenses to gross earnings.
	£	£	per cent.		£	£	per cent.
1855	9,249	5,959	64·4	1895	2,878,204	1,567,589	54·5
1860	62,269	59,427	81·0	1900	3,163,572	1,769,520	55·9
1865	169,032	108,926	65·6	1905	3,684,016	2,192,147	59·5
1870	307,142	206,003	67·1	1906	4,234,791	2,308,384	54·5
1875	614,648	296,174	48·2	1907	4,709,406	2,499,741	53·1
1880	1,161,017	647,719	55·8	1908	4,944,134	2,714,839	54·9
1885	2,174,368	1,458,153	67·1	1909	5,028,450	2,952,824	58·7
1890	2,633,086	1,665,835	63·3	1910	5,485,715	3,276,409	59·7

With the exception of the years 1902, 1903, which were drought years, and 1904, when the quantity of wool and live stock carried was low on account of the preceding year's drought, the proportion of working expenses to gross earnings was considerably less than for the period anterior to the vesting of the railways in the Commissioners. The fact that the lines as a whole have not in the past always returned a profit should occasion no surprise, as the statistics of railways in all parts of the world show that few lines, except perhaps suburban, return a profit during the first few years after their opening.

During the period from 1870 to 1875, when the length of new lines yearly constructed was very small, the railway profits steadily increased. During 1877 and 1878, 180 miles of railway were constructed, and the profits immediately declined. From 1880 to 1884 the railways were extended, chiefly to centres already populous and prosperous, viz., Riverina and New England, and the central districts of Wellington and Dubbo; and as these were years of remarkable prosperity, the railway profits suffered less than usual from the considerable extension, which included the construction of the expensive connecting link joining the New South Wales railways with those of Victoria, at the River Murray. Since 1885 the extensions on the main lines have been mainly through pastoral country; as examples, the continuation of the Western line to Bourke, the Northern line to Jennings, and the further extensions of the lines on the Goulburn district to the rich pastoral lands of Monaro. Also branch lines have been constructed tapping important agricultural, dairy-farming, and pastoral districts.

Expensive new lines result in an increase in the percentage of working expenses to the gross earnings, as these lines have to be kept in full repair whilst actually returning in gross earnings little more than the cost of maintenance. The small returns on expensive incompleted branches further tend to diminish greatly the profits of the railway system taken as a whole; but such is the history of railway construction in all parts of the world, and New South Wales is no exception to the general rule. The financial depression of 1893, which brought about a great change in the character of the coaching traffic, and the continued unfavourable character of the seasons, adversely affected the earnings of several years. The increased cost of fuel and liberal advances granted to the wages staff materially augmented the working expenses, while the loss of revenue by the carriage of fodder and transfer of live-stock during drought years, at rates that were almost unremunerative, contributed greatly towards an increase in the proportion of working expenses to gross earnings.

The following table gives the percentage of earnings from the two sources of railway revenue:—

Year.	Percentage of Earnings.		Year.	Percentage of Earnings.	
	Coaching Traffic to Total.	Goods Traffic to Total.		Coaching Traffic to Total.	Goods Traffic to Total.
1860	73·0	27·0	1902	38·3	61·7
1865	56·0	44·0	1903	42·4	57·6
1870	38·4	61·6	1904	42·0	58·0
1875	33·5	66·5	1905	39·9	60·1
1880	33·6	66·4	1906	37·9	62·1
1885	38·2	61·8	1907	37·9	62·1
1890	40·2	59·8	1908	38·4	61·6
1895	35·1	64·9	1909	39·9	60·1
1900	38·2	61·8	1910	39·9	60·1
1901	38·6	61·4			

It will be observed that in the year 1860 the earnings from passenger traffic largely exceeded those from goods, but after that year the proportion derived from coaching traffic declined, reaching the minimum in 1875. This falling-off was due almost entirely to the considerable extension of the main lines through pastoral country, thinly populated, but well stocked with sheep and cattle, and consequently furnishing the railways with large quantities of produce for carriage to the sea-board. From 1880 to 1889, however, the percentage of receipts from coaching traffic steadily advanced, the proportion in the year last named being as high as 40·4 per cent. of the total revenue. A marked increase is exhibited in the figures for the years 1903, 1904, and 1905, followed by a falling off in the two subsequent years. The proportion for 1907-8 increased, and was equal to that in 1902, the intermediate years showing slight variations. The results for 1909-10 are practically identical with the figures for the previous year and for 1905.

NET EARNINGS AND INTEREST ON CAPITAL.

The net revenue for the year ended 30th June, 1910, was £2,209,306; while the capital expended on lines open for traffic to that date was £48,925,348. The amount thus available, to meet the interest charges on the capital expended, represents a return of 4·52 per cent., which is 0·99 per cent. in excess of the interest payable on the public debt. In the discussion of the financial results of the working of the lines, it is the practice of railway authorities to compare the net returns with the nominal rate of interest payable on the

railway loans or on the public debt of the State. An accurate comparison, however, can be made only by taking the average rate of interest payable on the actual sum obtained by the State for its outstanding loans, inasmuch as many loans were floated below par. On this basis, the lines of the State have met the interest on construction and equipment during ten years only, viz., 1881-83, 1889, 1901, 1906-10. The following table shows the net earnings and the interest returned on the total capital expended on railways, including the cost of both construction and equipment for the year 1855 and subsequent periods:

Year.	Net Earnings.	Interest on Capital.	Year.	Net Earnings.	Interest on Capital.
	£	per cent.		£	per cent.
1855	3,290	0·63	1901	1,530,578	3·94
1860	11,842	0·83	1902	1,401,317	3·48
1865	57,106	2·07	1903	1,048,594	2·53
1870	101,139	1·81	1904	1,177,473	2·80
1875	318,474	4·39	1905	1,491,869	3·46
1880	513,298	4·35	1906	1,926,407	4·42
1885	716,215	3·37	1907	2,209,665	4·96
1890	967,251	3·17	1908	2,229,295	4·88
1895	1,310,615	3·60	1909	2,075,626	4·36
19	1,394,052	3·63	1910	2,209,306	4·52

The table below shows the rate of interest returned on the capital expenditure for each of the last ten years, with the sum by which such return falls short of or exceeds the actual rate of interest payable on the cost of construction. The rate of return on capital represents the interest on the gross cost of the lines. The nominal amount of outstanding debentures and funded stock is less than the actual expenditure on construction and equipment, owing to the fact, as previously stated, that some loans have been redeemed; but as the redemption has been effected by means of fresh loans charged to general services, or by payments from the general revenue, and not out of railway earnings, no allowance on this account can reasonably be claimed:—

Year.	Interest returned on Capital.	Actual rate of Interest payable on Outstanding Loans.	Average Gain (+) or Loss (-).
	per cent.	per cent.	per cent.
1901	3·94	3·74	+0·20
1902	3·48	3·68	-0·20
1903	2·53	3·67	-1·14
1904	2·80	3·68	-0·88
1905	3·46	3·69	-0·23
1906	4·42	3·68	+0·74
1907	4·96	3·63	+1·33
1908	4·88	3·65	+1·23
1909	4·36	3·65	+0·71
1910	4·52	3·53	+0·99

As pointed out previously, the extension of the lines in sparsely populated districts was responsible for a considerable falling-off in profits for some years; but, generally speaking, the above returns give evidence of considerable improvement during the period, and this satisfactory state of affairs has been attained by careful and economical management. The falling-off noticeable in 1903 was due, in a great measure, to the disastrous drought which affected a great portion of the State. During that year not only was there a much smaller volume of traffic than usual, but the Commissioners carried starving stock and fodder at rates barely sufficient to cover working expenses. In 1904 the effects of the drought were still felt, as there was a decrease in the carriage of wool and live stock.

The railways being owned by the State, public opinion at once demands a reduction in freights and rates, when the net earnings are much in excess of the interest requirements.

EARNINGS AND EXPENSES PER MILE.

Two important facts which demonstrate the financial position of the railways and the character of the management are the earnings per train mile and per average mile open. Although the returns now being realised cannot be compared with those of 1875, when the net earnings per train mile were a little short of 52d., and £777 per mile open, the earnings, with the exception of those for the years 1902, 1903, and 1904, are in every way encouraging. The transactions of the year 1909-10 show an increase in the net earnings per train mile of 1-26d. as compared with those of the previous year. Nevertheless the net earnings per mile open are not so high as during the year 1907-8, the falling-off being mainly due to the increase in working expenses on account of renewals of rolling-stock and permanent way, expenditure caused by floods, increased cost of fuel owing to the coal strike, and higher rates of pay to the staff under the awards of the Wages Boards. The gross earnings, expenditure, and net earnings per train mile and per average mile open since 1860 are set forth in the following table:

Year.	Per train mile.			Per average mile open.			Year.	Per train mile.			Per average mile open.		
	Gross Earnings.	Expenditure.	Net Earnings.	Gross Earnings.	Expenditure.	Net Earnings.		Gross Earnings.	Expenditure.	Net Earnings.	Gross Earnings.	Expenditure.	Net Earnings.
	d.	d.	d.	£	£	£		d.	d.	d.	£	£	£
1860	83-37	67-52	15-85	880	720	169	1900	85-36	47-75	37-61	1,153	645	508
1865	82-42	54-07	28-35	1,261	762	599	1905	84-46	50-26	34-20	1,123	668	455
1870	81-81	54-86	26-95	907	608	299	1906	85-67	46-70	38-97	1,258	686	572
1875	100-20	48-28	51-92	1,499	722	777	1907	87-28	46-33	40-95	1,374	729	645
1880	86-02	47-99	38-03	1,475	823	652	1908	83-26	45-72	37-54	1,425	783	642
1885	78-61	52-72	25-89	1,307	877	430	1909	80-00	47-01	32-99	1,412	829	583
1880	78-90	49-91	28-99	1,209	765	444	1910	85-00	50-75	34-25	1,513	904	609
1895	90-96	49-54	41-42	1,144	623	521							

In many cases the railways of the State pass through heavy and mountainous country, involving steep gradients, some of the worst of which are situated on the trunk lines. For the more expeditious and economical working of the traffic, important deviations have been made and are being carried out to secure better grades and to ease the curves, notably the Lithgow Zig-zag Deviation. In the Southern system, the line at Cooma reaches an altitude of 2,662 feet above the sea-level; in the Western, at Clarence Station, Blue Mountains, a height of 3,658 feet is attained; and on the Northern line the highest point, 4,473 feet, is reached at Ben Lomond.

COACHING AND GOODS TRAFFIC.

Passenger Traffic.

The following table shows the number of passengers carried on the lines of the State, together with the receipts derived from the traffic, and the average receipts per journey since 1855 :—

Year.	Passenger Journeys.	Receipts from Coaching Traffic.	Average Receipts per Journey.
	No.	£	d.
1855	98,846	9,093	22.08
1860	551,044	45,428	19.79
1865	751,587	92,984	29.69
1870	776,707	117,854	36.42
1875	1,288,225	205,941	38.37
1880	5,440,138	390,149	17.21
1885	13,506,346	830,904	14.76
1890	17,071,945	1,059,791	14.90
1895	19,725,418	1,022,901	12.45
1900	26,486,873	1,227,355	11.12
1905	35,158,150	1,469,018	10.03
1906	37,500,531	1,604,349	10.27
1907	41,413,084	1,782,907	10.33
1908	47,487,030	1,896,720	9.59
1909	52,051,556	2,003,061	9.14
1910	53,644,271	2,124,292	9.50

There has been a gradual decline in the receipts per journey, due no doubt to the large increase in suburban traffic, the reduction of season ticket fares, and the more general use of second-class carriages by all kinds of travellers.

The number of journeys made by each person in the State now averages 32.2 per annum, as against 7.5 in 1880, and 1.6 in 1870. The increase has been exceedingly rapid, as will be seen from the following table :—

Year.	Number of Journeys.	Year.	Number of Journeys.
1855	0.4	1895	15.9
1860	1.6	1900	19.7
1865	1.9	1905	24.1
1870	1.6	1906	24.8
1875	2.3	1907	26.6
1880	7.5	1908	30.0
1885	14.6	1909	32.4
1890	15.8	1910	32.2

The average receipts from passenger traffic per head of population advanced very rapidly until 1890, when the amount stood at 16s. 5d., against 9s. 4d. in 1880. This was due not so much to the increased distance travelled by passengers as to the fact that the railway mileage increased at a greater rate than the population, enabling the public to indulge in a larger measure of railway travelling, in accordance with the well established rule that the more facilities for travelling are extended the greater will be the traffic. Subsequently to 1891 the average lessened for a period, but in recent years a further rise is evident, and the amount per capita is now 25s. 10d. In this connection it is interesting to note that the fares charged on the suburban lines, over which the majority of passengers travel, are very much less for both classes of travellers than the English rates, although

the cost of working is considerably higher. The receipts from passenger traffic per head of the population will be found in the following figures:—

Year.	Amount per Capita.	Year.	Amount per Capita.
	£ s. d.		£ s. d.
1875	0 3 0	1900	0 15 1
1880	0 9 4	1905	0 15 4
1885	0 15 4	1908	1 0 1
1890	0 16 5	1909	1 1 5
1895	0 13 8	1910	1 5 10

Goods Traffic.

The following figures, extending as far back as the opening of the lines, show how greatly the goods traffic has expanded, especially in recent years:—

Year.	Tonnage of Goods and Live Stock.	Tonnage per head of Population	Earnings.	Year.	Tonnage of Goods and Live Stock.	Tonnage per head of Population	Earnings.
			£				£
1855	140	...	156	1895	4,075,093	3 3	1,855,303
1860	55,394	0.2	16,841	1900	5,531,511	4.1	1,936,217
1865	416,707	1.2	73,048	1905	6,724,215	4.6	2,214,998
1870	766,523	1.6	189,288	1906	7,629,492	5.1	2,630,442
1875	1,171,354	2.2	408,707	1907	8,793,832	5.7	2,926,499
1880	1,712,971	2.4	770,868	1908	10,175,389	6.5	3,047,414
1885	3,273,004	3.5	1,343,464	1909	9,298,928	5.8	2,969,400
1890	3,788,950	3.5	1,573,295	1910	8,393,038	5.2	3,295,948

The weight of goods and live stock carried per head of population in New South Wales compares favourably with that of many countries where railways have long been established, as may be seen from the figures given later for other countries.

The accompanying statement shows the receipts per ton for carrying goods one mile along the lines of the State. The information relates back to 1872, when the charge was 3.6 pence, and after an interval of thirty-eight years it has fallen to 1.0. The decrease, however, is to some extent only apparent, inasmuch as it represents a more extensive development of the mineral trade than of the carriage of general merchandise; but when due allowance has been made, it will be found that the benefit to the general producer and consumer has been very substantial, especially in regard to agricultural produce and live stock:—

1872	3.6d.	1895	1.6d.	1907	1.3d.
1875	3.1d.	1900	1.5d.	1908	1.2d.
1880	2.3d.	1905	1.2d.	1909	1.0d.
1885	1.9d.	1906	1.3d.	1910	1.0d.
1891	1.9d.				

The revenue from goods and live stock traffic per head of population rose rapidly from the opening of the lines until the year 1883, when it stood at 30s. 4d. Bad seasons in subsequent years caused a falling-off, so that by 1888 the average was only 27s. per inhabitant. For a number of years afterwards there was a steady increase, and in 1892 the average stood at 33s.; in 1894 this was decreased to 29s. 1d.; but in 1895 there was a rise to 29s. 11d. In 1896, owing chiefly to the diminished wool traffic, and partly also to the Newcastle strike, the figures dropped to 28s. 1d.; in 1897, there was a rise to 29s. 11d., but the effect of the drought was noticeable in 1898, when the

average per head dropped to 29s. 2d. An improvement was, however, presented in 1899, 1901, 1902, and in each year from 1905 to 1908; and in 1910 the average per head rose to 40s. 1d. The results achieved must be regarded as very satisfactory, especially in the face of the recent general reduction in the freights:—

Year.	Goods revenue per head of Population.	Year.	Goods revenue per head of Population.
1860	£ 0 11 8	1900	£ 18 9 7
1865	0 3 7 8	1905	1 10 3 7
1870	0 7 8 7	1906	1 15 2 0
1875	0 13 11 8	1907	1 18 2 3
1880	1 1 1 9	1908	1 18 8 9
1885	1 8 11 7	1909	1 17 0 0
1890	1 9 1 0	1910	2 0 0 8
1895	1 9 11 3		

Rolling-stock.

The rolling-stock of New South Wales Railways, on the 30th June, 1910, reached a total of 18,565, viz., engines, 872; tenders, 718; coaching stock, 1,420; goods vehicles, 14,527; departmental stock, 1,028. These figures represent an increase on the figures of the previous year of 1,120, viz., engines, 74; tenders, 63; coaching stock, 95; goods vehicles, 878; departmental stock, 10. The number of engine miles run was 19,594,816, while the train miles numbered 15,468,026. The fitting of the goods stock with the Westinghouse quick-acting freight brake appliances was completed in 1898-9, and much progress has been made with the work of interlocking of points and signals—Sykes' system of lock and block being introduced on the busy suburban sections.

Railway Accidents.

The railways of New South Wales have been as free from accidents of a serious character as the lines of most other countries. It is difficult to obtain a common basis of comparison; but the available figures are shown in the following table, which exhibits the number of passengers killed and injured per million persons carried. The figures are calculated over a period of five years and brought down to the latest available dates:—

Countries.	Accidents per million passengers carried.		Countries.	Accidents per million passengers carried.	
	Killed.	Injured.		Killed.	Injured.
Germany	0.09	0.44	Russia	1.37	7.40
Austria-Hungary	0.14	1.50	United Kingdom	0.10	2.03
Belgium	0.04	2.20	Spain	0.61	2.73
Sweden	0.18	0.30	New South Wales	0.10	2.25
France	0.03	0.71	Victoria	0.20	4.14
Norway	0.10	0.02	South Australia	0.27	2.06
Netherlands	0.08	0.33	New Zealand	0.93	1.59
Switzerland	0.10	0.67	United States	0.60	13.51

The above comparison is by no means convincing, as the question of the distance travelled by each passenger is an important element of the risk run, and is omitted from consideration. If this were made a factor, it would probably be found that the risk of each traveller by rail would show less variation in the different countries than appears to be the case from the figures quoted.

The persons meeting with accidents on railway lines may be grouped under three heads—passengers, employes, and trespassers; and the accidents themselves may be classified into those arising from causes beyond the control of the persons injured, and those due to misconduct or want of caution.

The accidents may be further subdivided into those connected with the movement of railway vehicles and those apart from such movement. Adopting such classifications, the returns for the quinquennial period terminating on the 30th June, 1910, show that in accidents connected with the movement of railway vehicles, through causes beyond the passengers' own control, only one was killed in over 232 million carried, and 0.61 per million carried were injured; and owing to misconduct or want of caution the rates of passengers killed and injured per million were 0.95 and 1.16 respectively. Further, in accidents apart from the movement of railway vehicles, 0.48 passengers, per million carried were injured in consequence of their own misconduct or want of caution.

In the following statement, particulars regarding accidents on the Government Railways of New South Wales are given for four years.—

Classification.	Accidents connected with the Movement of Railway Vehicles.				Accidents not connected with the Movement of Railway Vehicles.			
	1906-7.	1907-8.	1908-9.	1909-10.	1906-7.	1907-8.	1908-9.	1909-10.
Passengers—								
Causes beyond their own control—								
Killed ... ..	...	1	...	...	...	...	...	...
Injured	32	87	2	8	...	...	1	...
Their own misconduct, or want of caution—								
Killed	3	5	6	5	...	...	...	...
Injured	49	51	48	88	19	23	38	21
Servants of the Department—								
Causes beyond their own control—								
Killed ... ..	...	...	1	1	...	...	...	...
Injured	14	17	13	11	14	22	27	39
Their own misconduct, or want of caution—								
Killed	8	24	13	17	...	1	1	2
Injured	154	174	140	190	714	1,055	1,366	1,559
Trespassers and others—								
Killed	17	14	23	27	1	2	...	6
Injured	33	26	46	41	70	71	62	53
Total								
Killed	28	44	43	50	1	3	1	8
Injured	287	355	249	338	817	1,171	1,494	1,672

The returns are compiled on lines similar to those adopted by the Board of Trade in England, and all accidents are reported which occur in the working of the railways, or on railway premises, to persons other than servants of the Department, however slight the injuries may be. In the case of servants

of the Department during the earlier two years shown above only those accidents were reported which prevent the servant working for five hours on any one of the three working days next after the occurrence of the accident, but from the year 1908-9 all accidents are required to be reported which cause the servant to be absent for at least one whole day from his ordinary work.

The amount of compensation, paid during the twelve months ended 30th June, 1910, in connection with accidents on railways, was £8,828, of which £2,957 was paid in respect of passengers, and £5,871 with regard to goods.

New South Wales and Other Countries.

The position of the railways of New South Wales in relation to other important countries of the world is shown in the following table; but it is necessary to remember that there are important differences which really invalidate any effective comparison, as, for instance, differences in population, in class of goods carried, and in the competition or assistance which railways encounter from river or sea carriage. These are all factors in development quite apart from questions of control, of gauge, or of construction.

Country.	Length of Railway.	Per Mile of Line Open.			Tonnage. Per Capita.
		Population.	Area.	Cost.	
	miles.	No.	sq. miles.	£	tons.
<i>New South Wales</i> ...	3,762	442	82.5	13,203	5.6
United Kingdom ...	23,264	1,935	5.2	56,478	11.1
United States ...	230,097	372	13.0	14,561	20.9
Canada ...	22,966	302	157.1	14,004	9.1
Germany ...	34,895	1,779	6.0	21,940	8.3
Russia ...	41,136	3,695	203.7	14,196	1.1
Japan ...	5,159	9,644	28.6	9,069	0.5
Cape Colony* ...	3,265	802	84.8	9,848	0.5
Argentine ...	13,690	405	81.6	12,485	5.0
Victoria ...	3,429	374	25.6	12,371	3.2
South Australia ...	2,067	200	437.2	7,459	5.3
Queensland ...	3,843	151	174.5	6,415	5.2
West Australia ...	2,843	95	343.3	4,729	12.5
New Zealand ...	2,682	358	39.1	10,351	5.3

* Government Railways only.

PRIVATE RAILWAY LINES.

In New South Wales the established policy has been to keep the railways under State management and control, and at the present time there are only four private lines in operation, with the exception of short lines to connect coal-mines with the main railways, on a few of which provision has been made for the carriage of passengers and goods.

In 1874 Parliament granted permission to a company to construct a line from Deniliquin, in the centre of the Riverina district, to Moama, on the Murray, where it meets the railway system of Victoria. The line, which was opened in the year 1876, is 45 miles in length, and a considerable proportion of the wool and other produce of Riverina reaches the Melbourne market by this route. During the year 1888 a line, 35 miles 54 chains in

length, was laid down from the Barrier Silver-mines, Silvertown, and Broken Hill, to the South Australian border, and has conducted a flourishing business. A short line connects Liverpool with the Warwick Farm Race-course; also the line of the Commonwealth Oil Corporation extends from Newnes, on the Western line, to the Wolgan Valley. The Seaham Coal Company's line, 6 miles in length, connects the West Wallsend and Seaham Collieries with Cockle Creek. The following table shows the operations of these lines during the year 1909:—

Name.	Line.			Total Capital Expended.	Reserve Fund.	Debentures Outstanding.	Passengers Carried.	Goods Carried.	Live Stock Carried.	Train Miles Run.
	Length.	Gauge.								
	m.	ch.	ft. in.	£	£	£	No.	tons.	No.	No.
Deniliquin & Moama	45	0 5	3	162,672	14,010	20,000	14,693	17,371	251,597	35,878
Silvertown ...	35	5 4	3	410,785	75,714	...	38,375	787,966	26,394	124,797
Warwick Farm ...	0	6 6	4 8½	5,700	...	...	24,594	...	520	52
Commonwealth Oil Corporation.	32	8 4	8½	149,780	...	...	...	...	...	...
Seaham Colliery ...	6	0 4	8½	16,000	...	...	19,885	5,559	1	5,980

The Deniliquin and Moama Company possesses 4 locomotives, 6 passenger carriages, and 63 goods carriages and vans; and the Silvertown Company has 16 locomotives and 542 goods vehicles, passenger carriages being hired from the South Australian Government railways as required. On the Warwick Farm line Government rolling-stock is used. The Commonwealth Oil Corporation has 4 locomotives and 2 carriages, and the Seaham Colliery 2 locomotives, 4 passenger cars, and 1 goods vehicle, but otherwise Government rolling-stock is used on these lines.

In addition to the lines shown in the above table, there are several branches, connected principally with coal-mines; a summary of them is given below:—

District.	Length.		Gauge.	
	m.	ch.	ft.	in.
52 lines connected with Northern Line	117	54	4	8½
12 " " " Western " "	6	31	4	8½
1 " " " Southern " "	4	0	4	8½
1 " " " South Coast " "	3	40	3	6
14 " " " " " " "	29	76	4	8½

TRAMWAYS.

The tramways are chiefly the property of the State Government, and are under the control of the Railway Commissioners. There were, in June, 1910, ten distinct systems of tramways in operation, viz., City and Suburban electric, 94 miles 10 chains; North Shore electric, 16 miles 62 chains; Ashfield, Mortlake, and Cabarita steam, 8 miles 36 chains; Arncliffe to Bexley steam, 2 miles 50 chains; Kogarah-Sans Souci steam, 5 miles 45 chains; Newcastle-Plattsburg steam, 17 miles 11 chains; Broken Hill steam, 9 miles 9 chains; Parramatta-Baulkham Hills steam, 4 miles 37 chains; Manly to Brookvale steam, 3 miles 32 chains; East and West Maitland steam, 4 miles 5 chains; total, 165 miles 57 chains.

The electric system was introduced into the city at the close of 1899, and the conversion of the steam tramways in the metropolitan district into an electrical system has now been completed, provision for the electrical power required having been made at the works at Ultimo.

The following table gives some interesting particulars respecting the metropolitan tramways, including the North Shore line, but excluding the Ashfield, Arncliffe, Kogarah, and Manly lines. In the year 1879, the tramways were open for only three and a half months, and for part of that time were worked by horse-power. The accounts since 1887 have been made up to the 30th June in each year:

Year.	Length of Line. miles.	Total Earnings. £	Working Expenses. £	Proportion of working cost to gross earnings. d.	Net Earnings. £	Capital Cost. £	Interest on Capital. percent.
1879	1½	4,416	2,278	51·59	2,138	22,269	33·00
1880	4	18,980	13,444	70·83	5,536	60,218	12·34
1885	37½	223,340	207,995	93·13	15,345	708,109	2·17
1890	32	258,991	215,856	83·34	43,135	864,367	4·99
1895	44½	242,991	196,436	80·34	46,555	1,103,362	4·22
1900	54½	342,024	288,845	84·45	53,179	1,560,539	3·41
1905	85½	747,717	623,371	83·37	124,346	3,229,080	3·85
1906	85½	782,617	597,953	76·40	184,664	3,259,936	5·60
1907	87½	832,202	662,187	79·57	170,015	3,247,317	5·23
1908	89½	925,224	735,442	79·49	189,782	3,288,480	5·77
1909	103½	1,009,498	785,404	77·80	224,094	3,756,198	5·97
1910	111	1,092,582	888,415	81·31	204,167	4,235,170	4·82

The undermentioned figures show the expansion of the tram mileage in the metropolis, including North Sydney, and the earnings and working cost per tram mile up to the 30th June, 1910:—

Year.	Tram Mileage.	Earnings per Tram Mile.		Working cost per Tram Mile.	
		s.	d.	s.	d.
1879	13,270	6	7·9	3	5·2
1880	84,074	4	6·2	3	2·4
1885	1,220,500	3	7·9	3	4·9
1890	1,540,833	3	4·3	2	9·6
1895	1,854,595	2	7·4	2	1·4
1900	3,412,445	2	0·6	1	8·3
1905	15,488,016	0	11·6	0	9·7
1906	15,365,478	1	0·2	0	9·3
1907	15,655,953	1	0·8	0	10·2
1908	16,517,552	1	1·4	0	10·7
1909	17,813,394	1	1·6	0	10·6
1910	19,395,021	1	1·5	0	11·0

The tramways have for fifteen out of the last twenty years yielded more than the cost of working and interest. It must, however, be remembered that the State does not set apart any portion of the earnings for renewals, which may hereafter prove a considerable item, as a large part of the rolling-stock is new.

The fares charged on the tramways are on the average about 0·6d. per mile, the lines being divided into penny sections of about $\frac{1}{4}$ mile. For the Metropolitan area the average length of the sections is about $\frac{1}{2}$ mile, and the fare per mile 0·53d.

The following statement shows the working of the various tramways in sections for the year ended 30th June, 1910. Although eight sections experienced a loss during the period, the total net revenue on all lines, amounting to £45,879, returns a profit of 0·98 per cent. after allowing for interest on capital invested:

Line.	Cost of Construction and Equipment.	Passengers Carried.	Gross Revenue.	Working Expenses.	Interest on Capital.	Profit + Loss —
	£	No.	£	£	£	£
City and Suburban—Electric	3,881,392	173,897,034	1,018,836	831,299	129,610	+57,927
North Shore—Electric	353,778	13,677,491	73,746	57,116	12,014	+4,616
Ashfield to Mortlake and Cabarita—Steam	47,515	1,435,764	8,730	10,253	1,680	-3,203
Arncliffe to Bexley—Steam	18,872	184,949	978	1,988	469	-1,479
Kogarah and Sans Souci—Steam	18,615	434,176	3,803	4,291	655	-1,143
Mainly to Brookvale—Steam	26,887	603,568	2,839	4,347	537	-2,045
Parramatta to Baulkham Hills—Steam	25,625	471,596	3,300	2,983	906	+539
Newcastle Suburban—Steam	189,945	7,587,274	53,432	49,513	6,646	+2,727
Broken Hill—Steam	74,046	2,127,739	15,278	18,048	2,498	-5,263
East and West Maitland—Steam	32,122	732,390	4,626	3,749	1,092	+215
Total, all lines	4,668,797	201,151,021	1,185,568	983,587	156,102	+45,879

In the following table are given details of revenue and expenditure, and capital invested for all State tramways, since their inception in 1879. The net earnings of the tramways for the last quinquennial period amounted to 4·97 per cent. on cost of construction and equipment, which compares favourably with 3·53 per cent., the actual interest on the public debt, taking into consideration the actual sum obtained by the State for its loans, many of which were floated below par:—

Year.	Total Length of Lines.	Capital Expended on Lines open for Traffic.	Gross Revenue.	Working Expenses.	Net Earnings.
	Miles.	£	£	£	£
1879	1 $\frac{1}{2}$	22,061	4,416	2,278	2,138
1880	4 $\frac{1}{2}$	60,218	18,980	13,444	5,536
1885	35	743,506	227,144	207,898	19,246
1890	39 $\frac{1}{2}$	933,614	268,962	224,073	44,889
1895	61	1,428,518	282,316	230,993	51,323
1900	71 $\frac{1}{2}$	1,924,720	409,724	341,127	68,597
1905	125 $\frac{1}{2}$	3,637,922	813,569	685,682	127,887
1906	126	3,069,036	551,483	665,083	186,400
1907	133 $\frac{1}{2}$	3,669,524	908,701	727,947	180,754
1908	132 $\frac{1}{2}$	3,732,991	1,011,994	809,065	202,929
1909	151 $\frac{1}{2}$	4,252,731	1,097,565	875,560	222,005
1910	165 $\frac{1}{2}$	4,668,797	1,185,568	983,587	201,981

The tramway rolling-stock, on the 30th June, 1910, consisted of 21 steam motors, 76 steam cars, 894 motors and 45 trail cars for electric lines, and 58 service vehicles, making a total of 1,094. The tram mileage during the year was 20,579,386, being an increase of 1,725,765 miles on that of the preceding year.

TRAMWAY ACCIDENTS.

The accidents which occurred on tramways during the last four years are classified in the subjoined table, having been tabulated on similar lines to those relating to the railways:—

Classification.	Accidents connected with the Movement of Tramway Vehicles.				Accidents not connected with the Movement of Tramway Vehicles.			
	1906-7.	1907-8.	1908-9.	1909-10.	1906-7.	1907-8.	1908-9.	1909-10.
Passengers—								
Causes beyond their own control—								
Killed	1	...	...	...	...	...	...	...
Injured	50	97	64	133	3	1	...	...
Their own misconduct, or want of caution—								
Killed	5	8	6	6	...	...	...	...
Injured	186	227	206	214	2	7	10	6
Servants of the Department—								
Causes beyond their own control—								
Killed	1	2	...	...	...	...	...	...
Injured	10	9	20	25	10	8	21	7
Their own misconduct, or want of caution—								
Killed	1	1	1	...	1	...	...	1
Injured	120	135	167	158	153	246	360	331
Others—								
Killed	7	15	12	18	...	...	...	1
Injured	155	179	183	214	6	11	5	2
Total {								
Killed	15	26	19	24	1	...	...	2
Injured	521	647	640	744	174	273	396	346

The number of passengers carried on the tramways during the year ended 30th June, 1910, was 201,151,021, which would give the rate of fatal accidents to passengers as 0.03 per million. All these accidents, as in the previous two years, were due entirely to misconduct or want of caution on the part of passengers. As the tramways for a great part of their course traverse crowded streets, the number of fatal and non-fatal accidents must be considered very small.

The amount of compensation paid during the twelve months ended 30th June, 1910, in respect of accidents on the tramways was £20,078, as compared with £15,625 for the preceding year.

EMPLOYMENT AND WAGES.

The account of wages paid, together with the staff employed on the railways and tramways during the financial year 1909-10, is shown in the following statement, in comparison with the previous year:—

Particulars.	Year ended 30th June, 1910.			Year ended 30th June, 1909.		
	Railways.	Tramways.	Total.	Railways.	Tramways.	Total.
	No.	No.	No.	No.	No.	No.
Persons employed—						
Salaried staff ..	2,369	313	2,682	2,163	284	2,447
Wages „ „ ..	17,554	6,063	23,922	17,295	5,603	22,898
Total ..	20,223	6,381	26,604	19,458	5,887	25,345
Wages paid—	£	£	£	£	£	£
Maintenance Branch	828,277	135,280	963,557	763,619	116,614	880,233
Locomotive „ „	998,308	.....	998,308	904,985	.....	904,985
Electric „ „	.....	201,552	201,552	.....	173,523	173,523
Traffic „ „	457,640	389,981	846,721	422,711	338,622	761,333
Total ..	2,284,225	725,913	3,010,138	2,091,315	628,759	2,720,074

The total staff employed during 1909-10 exceeded that of the previous years by 1,259, and the amount of wages paid increased by £290,064. The wages per employee on the wages staff—railways and tramways—averaged £125 16s. for the twelve months.

PRIVATE TRAMWAYS.

There are three tramways under private control within the State. One of these branches from the Illawarra line at Rockdale, in the Metropolitan area, and runs to Brighton-le-Sands, a distance of 1 mile. The line was constructed in 1885, and the original motive power was steam, subsequently converted into electric; the line is chiefly used by excursionists visiting the shores of Botany Bay. The remaining two are steam tramways; one passes through the township of Parramatta, commencing at the Park and continuing as far as the Newington Wharf at Duck River, a distance of 3 miles, where it connects with the Parramatta River steamers conveying passengers and goods to and from Sydney. The line was opened in 1883. The second steam line is that from Fassifern to Toronto, on Lake Macquarie, a distance of 2½ miles, which was opened in 1891.

POSTS AND TELEGRAPHS.

UNDER the provisions of clause 51 of the Commonwealth of Australia Constitution Act, the control of the Post and Telegraph services became vested in the Commonwealth, and by proclamation these services were taken over on the 1st March, 1901. The system of administration and the rates levied in each State at the date of the union were, however, continued in force until the Commonwealth Postal Act was brought into operation on the 1st November, 1902, this measure securing uniformity in all the States, except that the postage rates within each State were still continued as previously.

Although the Post Office is now exclusively controlled by the Commonwealth, it is apparent that in any statistical account of New South Wales special reference should be made to a service which is intimately associated with the commercial and social life of the State.

Taking into consideration the large area of the State, New South Wales possesses an excellent system of postal and telegraphic communication. The interstate system is fairly perfect, and New South Wales is in direct communication with Europe and the rest of the world by means of the cables connecting with the various Asiatic, continental, and the Canadian and South African telegraph lines. The State is also connected with New Zealand by a submarine cable.

The history of the Postal Department is most interesting, since it affords a striking illustration of small beginnings leading to great results. No means of postal communication existed in New South Wales until 1810, when the first post office was established in Sydney. This establishment appears to have been merely a distributing office for letters and parcels arriving in Sydney; the conveyance of inland mails depended on constables and private individuals, no arrangements having been made for the despatch of shape letters. The postmaster was empowered to charge on delivery to the addressee 8d. for every English or foreign letter of whatever weight, and for every parcel weighing not more than 20 lb. 1s. 6d., and exceeding that weight, 3s. The charge on colonial letters was 4d. irrespective of weight, and soldiers' letters were charged 1d.

No measures towards additional postal communication were taken until 1815, when an Act was passed to regulate the postage, and a proclamation was issued fixing the postage rates and salaries of postmasters, and inviting tenders for the conveyance of mails. The provisions of the Act, however, were not observed until 1828. In that year there were in the Sydney establishment one principal postmaster, one clerk, and one letter-carrier, in addition to eight country postmasters and a carrier at Parramatta. In 1837 a fortnightly mail was established between Sydney and Melbourne. Stamps were introduced in the same year in the form of stamped covers or envelopes, which are believed to have been the first postage stamps ever issued.

In the year 1838 there were fifteen officers in the Sydney establishment. Within the borders of New South Wales, which at that time included Victoria and Queensland, there were forty post offices, the revenue of the Department for the year being £8,390, and the expenditure £10,357. The

New South Wales Government also made payments to the post office at Kororareka, in New Zealand, which was not created a separate colony until 1841. Mail communication between Sydney and Adelaide was established in 1847, and the rate of postage on a single letter was fixed at 1s. 6d. An amendment of the Postal Act was made in 1849, when the postage on town letters was fixed at 1d., and on inland letters at 2d., while the postage on ship letters was 3d., in addition to the inland rate, and authority was given for the use of postage stamps in their present form.

The first annual report of the Department was laid before Parliament in the year 1855, and at that time there were 155 post offices in the State. The head office was in George-street, occupying the same site as the present edifice, but the building was small and inconvenient. There were no electric telegraphs in the State, and the Observatory, by means of flags and semaphores, signalled the arrival of vessels at the Heads. Prior to the opening of the first railway, in September, 1855, the Southern and Western mails were despatched from the General Post Office in old-fashioned mail-coaches every evening. During that year the total distance travelled by the postal contractors, by coach and on horseback, was 1,023,255 miles. The number of letters passing through the post office was 2,114,179, of which 617,041 were addressed to places beyond the State. The number of newspapers was 2,100,989, of which 1,281,613 were inland, and 819,376 were "foreign." Book parcels and packets were not reckoned separately, but were counted as letters. The revenue of the Department for the year was £24,902, and the expenditure was £60,221. The staff numbered 223 officers, of whom fifty-six were connected with the office in Sydney. The annual report also indicates that communication with Victoria was effected three times a week.

In the year 1856 the first iron pillar letter-receivers were erected in Sydney, and 22 miles of railway were utilised for postal purposes, 16½ miles being added in the following year.

In 1863 it was resolved to build a new General Post Office at Sydney, and the construction of the present building was commenced. It was not opened till 1874. The headquarters of the Electric Telegraph Department and the Central Telephone Exchange are in the same building.

In 1855 there were only 155 post offices within the area now comprised in New South Wales and Queensland; at the close of 1909 there were within this State alone 1,884 post offices, besides 513 receiving offices—a truly marvellous development. The number of letters passing through the Post Office during the same period had increased nearly 66 times, and the number of newspapers nearly 27 times. Packets and book parcels were first enumerated separately in 1858, during which year 68,564 passed through the post; in 1909 the number was 37,339,895. Postcards were first introduced in 1875, when the number sent was 128,786; and in 1909 no less than 12,511,546 passed through the Post Office, of which 8,943,592 were posted within the State.

Double cards, which are designated letter-cards and closed against inspection, were introduced for public use on the 1st July, 1894. These cards may be transmitted within the Commonwealth, as well as to New Zealand, Fiji, and Papua.

A parcels post for inland and interstate transmission was inaugurated on the 1st October, 1893, the maximum weight being fixed at 3 lb. and 11 lb., according to mode of conveyance. The number of parcels carried under this system up to the close of the year was 44,265, and 349,218 were carried during 1895. Under the foreign system, which has been in force since August, 1886, 19,437 parcels were carried in 1893, and in the following year

18,672. In 1909 the total number of parcels carried was 1,509,468, of which 1,213,704 were inland, 232,358 interstate, and 63,406 foreign.

The table given below shows the number of post offices, employees, income and expenditure in five-year periods from 1855 to 1909. For 1885 and succeeding years the number of persons employed and the income and expenditure refer to the Department as a whole; prior to that year the figures are for Post Office only. Also, from 1885, the income is exclusive of interest on Savings Bank balances in the Treasury; and the expenditure is exclusive of interest allowed to Savings Bank depositors:—

Year.	Post Offices.	Receiving Offices.	Persons employed in the Department.	Income.	Approximate Expenditure.
	No.	No.	No.	£	£
1855	155	8	223	24,902	60,221
1860	289	*	289	45,613	71,391
1865	435	*	513	70,985	83,659
1870	562	*	690	84,441	86,722
1875	752	7	967	107,761	196,368
1880	927	119	1,536	194,084	268,128
1885	1,115	202	3,205	485,489	573,617
1890	1,338	325	3,821	637,975	677,216
1895	1,470	502	5,063	648,852	763,259
1900	1,668	521	5,516	831,340	764,227
1905	1,744	522	5,890	1,022,330	970,808
1906	1,769	519	5,943	1,134,248	966,498
1907	1,809	510	+6,964	1,237,389	1,067,232
1908	1,842	526	+7,343	1,278,106	1,157,976
1909	1,884	513	+7,469	1,319,755	1,214,878

* Not recorded. † Including temporary employees.

Exclusive of 1,553 mail contractors, 7,469 persons were employed by the Department in 1909.

The following statement shows the revenue and expenditure of the Department for the year 1909:—

Revenue.		Expenditure.	
	£		£
Postage... ..	857,244	Salaries	551,285
Electric Telegraphs ...	206,758	Contingencies ...	214,226
Telephones	175,960	Conveyance of mails...	280,409
Commission on Money		Cable subsidies ...	8,933
Orders and poundage		Telegraph & telephone	
on Postal Notes ...	40,422	works	107,132
Private boxes and bags	7,200	Other expenditure ...	52,893
Other receipts... ..	32,171		
Total	£1,319,755	Total	£1,214,878

In the expenditure shown in the table, interest on the outlay on post office buildings and telegraph lines, and maintenance of buildings, are not taken into account. If allowances be made for these, a deficiency in the finances of the Department would be disclosed.

Until 1897 the Postal Department was conducted at a considerable annual loss to the State. This was due in a measure to the wide area over which the population of the country was scattered, with consequent large expenditure for the carriage of mails, also to the fact that the newspapers, which form a large proportion of the mail matter, were then carried free. But obviously, whilst the State is in the formative stage of its history, it is not only necessary, but advantageous, to conduct the developmental services, such as the postal, at bare cost.

The extent of postal lines within the State, and cost of conveyance of mails, is shown below:—

Year.	Extent of Postal Lines.	Cost of conveyance of Mails, Foreign and Inland.
	miles.	£
1855	*	45,412
1860	8,231	44,303
1865	11,992	49,840
1870	14,242	48,649
1875	17,671	138,912
1880	22,427	174,238
1885	26,683	226,105
1890	29,594	231,467
1895	33,693	210,354
1900	36,294	213,924
1905	36,480	261,424
1906	40,178	258,396
1907	40,181	252,682
1908	40,168	273,217
1909	39,294	280,409

* Not recorded.

The following return, showing the letters, &c., posted and received, will give an idea of the magnitude of the work done by the Post Office of New South Wales:—

Year.	Letters.	Post-cards.	Newspapers.	Packets and Book Parcels.	Parcels.
	No.	No.	No.	No.	No.
1855	2,114,179	.....	2,100,989	* .....	.....
1860	4,230,761	.....	3,668,783	83,736	.....
1865	6,328,353	.....	4,689,858	249,904	.....
1870	7,083,500	.....	3,814,700	157,700	.....
1875	13,717,900	128,786	6,262,600	357,000	.....
1880	21,732,500	153,360	13,791,000	711,600	.....
1885	39,351,200	341,000	25,567,400	3,446,800	.....
1890	63,017,700	677,400	40,597,200	8,939,600	21,300
1895	68,416,308	957,400	44,902,900	11,259,200	422,800
1900	78,129,284	1,473,410	51,500,920	13,846,700	711,700
1905	103,576,306	8,382,282	44,599,104	22,083,000	994,100
1906	115,062,748	12,621,096	47,144,094	24,038,946	1,162,185
1907	122,130,948	15,097,710	48,340,646	35,816,853	1,374,701
1908	134,684,520	14,969,312	50,461,252	36,918,822	1,411,489
1909	139,058,694	12,511,546	56,002,764	37,339,895	1,509,468

* Included with letters.

The progress exhibited by the table just given is astonishing. In 1855 the total number of letters and newspapers, inland and foreign, was slightly over 2 millions each, whereas in 1909 the number of letters and post-cards had grown to over 151½ millions, and newspapers to over 56 millions, without reckoning over 37 million packets and book parcels which in the year earlier were included with the letters. The enormous increase in the number of post-cards carried during recent years is due mainly to the introduction of the pictorial post-card.

During 1909 the postal matter posted and received per head of population was—Letters and postcards, 93; newspapers, 34; and packets and parcels, 24.

The charge on letters between the State and the United Kingdom, which had for a long period been at the rate of 6d. per half-ounce *via* Italy, and 4d. by the long sea route, was reduced in 1891 to 2½d., and a further reduction was made in 1905 to 2d. for a letter sent to the United Kingdom, but the anomaly exists that, conversely, a letter sent from the United Kingdom to the State is carried for one penny. The rate for interstate letters and for those to other British Possessions is also 2d. per half-ounce.

By an arrangement made at the Postal Congress held in Vienna in 1891, New South Wales, as well as the other States of Australasia, entered the Universal Postal Union on the 1st October, 1891. The effect has been the extension of the reduced rate of 2½d. per half-ounce to all countries embraced in the Union.

In the year 1909, 4,525,092 letters and post-cards, 2,433,418 newspapers, and 1,199,416 packets and parcels were posted in New South Wales for countries outside Australia.

By an Act passed in 1893, it is required that newspapers be registered at the General Post Office, and both newspapers and supplements must be printed in New South Wales, from type set up therein; to secure transmission as newspapers. This provision is continued under the Post and Telegraph Act, 1901, passed by the Commonwealth Legislature.

Newspapers are transmitted to any place within the Commonwealth, Papua, New Zealand, and Fiji, at the rate of ½d. for every 10 oz. or fraction thereof; to the United Kingdom, for each newspaper not exceeding 8 oz., 1d.; exceeding 8 oz., but under 10 oz., 2½d.; every additional 2 oz., ½d.; and to all other places at the rate of 1d. for each newspaper not exceeding 4 oz. in weight, with ½d. for every additional 2 oz. or fraction thereof. Newspapers transmitted wholly by sea to the United Kingdom by Orient-Royal and P. and O. steamers are charged at the rate of 1d. for every 16 oz.

The following table shows the number of registered letters during the last ten years in the State:—

Year.	Number.	Year.	Number.
1900	1,023,974	1905	964,294
1901	1,213,277	1906	925,726
1902	1,095,095	1907	889,407
1903	928,521	1908	892,742
1904	901,235	1909	1,019,369

Of the registered letters in 1909 there were 325,235 from and to places beyond the State, and 694,134 inland.

Regular steam communication with England was established in 1852. The steamers were withdrawn two years later on the outbreak of the Crimean war, but in 1856 they were again started, and the service was performed by the Peninsular and Oriental and the Royal Mail Companies.

As this service proved unsatisfactory, a line was started in 1866 to carry mails from Sydney, *via* Panama, but it was terminated two years later by the failure of the company. On the completion of the railway across America in 1869, a monthly service, *via* San Francisco, was inaugurated, under subsidy by the Governments of New South Wales and New Zealand. This line ceased running in 1907, and, after an interval of some months, another monthly service was started by a British firm.

A service was established between Sydney and Vancouver in 1893, under subsidy from the New South Wales Government.

Since the establishment of a mail route *via* America there has been a great improvement in the service *via* Suez. The Peninsular and Oriental Company continues to carry mails from the Australian States; also the Orient Pacific Company, which commenced in 1878. More recently French and German steamers have entered the service between Europe and Australia.

Contracts with the Peninsular and Oriental and the Orient Pacific Companies for a weekly service, subsidised by the Imperial and Australian Governments, expired in 1905, and since that date mails from Australia are carried by the former Company at poundage rates. The Federal Government concluded another agreement with the Orient Company, which expired in 1910. A contract with Sir James Laing and Sons (Ltd.) in 1905 for the conveyance of Australian mails lapsed, and a new agreement was made with the Orient Pacific Company, which commenced in 1910, and will last for ten years.

The progress made in regard to the means of postal communication with the United Kingdom and the continent of Europe and America is marvellous. Instead of the unsatisfactory ocean mail service of 1857, which nominally brought monthly mails, with news 58 days old, there are now four great lines of ocean steamships, which bring mails *via* the Suez Canal at least once a week, the time occupied in the conveyance of the mails being on the average 33 days. In addition, there is a monthly service *via* Vancouver, by which mails are sent from Sydney to London in 38 days, and a line of steamers carry mails *via* San Francisco. There was also a steam service with London *via* Torres Straits, and advantage was taken at one time to send mail matter by these vessels. The following table shows, as far as possible, the average time and quickest time occupied in the transmission of letters by various routes between London and Sydney during 1909:—

Service.	London to Sydney.		Sydney to London.	
	Average Time.	Quickest Time.	Average Time.	Quickest Time.
	days.	days.	days.	days.
Per Peninsular and Oriental S. N. Co., <i>via</i> Colombo and Brindisi	31 $\frac{3}{4}$	31	31 $\frac{1}{2}$	31
„ Orient Royal Mail Line, <i>via</i> Suez and Naples...	33 $\frac{1}{2}$	33	33 $\frac{1}{2}$	33
„ Canadian-Australian, <i>via</i> Vancouver	37 $\frac{1}{2}$	36	36 $\frac{1}{2}$	34
„ Messageries Maritimes, <i>via</i> Marseilles			35 $\frac{1}{2}$	34
„ Nord-Deutscher Lloyd, <i>via</i> Genoa			34 $\frac{1}{2}$	32

There are regular mail services, subsidised by the New South Wales Government, to New Guinea, New Hebrides, and other Pacific islands.

TELEGRAPHS.

The electric telegraph was first used by the public of New South Wales on the 26th January, 1858, when the line from Sydney to Liverpool, 22 miles in length, was brought into operation. From this small beginning the system has increased until in 1909 there were 1,329 stations, and 17,087 miles of lines open, carrying 97,612 miles of wire in actual use. The following table gives a view of the business of the Telegraph Branch of the Post Office from 1865 to 1909 :—

Year.	Telegraph Stations.	Telegrams transmitted, delivered, and in transit.	Actual Revenue received.	Lines.	Wires.	Cost of construction, including Telephone Installation.
	No.	No.	£	miles.	miles.	£
1865	55	*138,785	29,769	.....	2,989	145,446
1870	86	*173,812	28,550	.....	5,247	195,545
1875	137	*719,745	48,657	.....	8,012	253,391
1880	289	1,319,537	84,110	.....	13,188	462,226
1885	404	2,625,992	155,073	.....	19,864	641,669
1890	623	4,101,449	193,707	11,231	23,598	743,698
1895	834	2,635,456	145,901	12,316	23,799	840,380
1900	961	3,219,907	174,895	14,065	41,494	1,132,626
1905	1,069	3,837,962	156,956	14,827	71,086	1,434,017
1906	1,122	4,452,506	191,665	15,417	74,754	1,469,429
1907	1,278	4,894,283	207,525	15,910	82,249	+922,119
1908	1,290	5,149,763	222,801	16,338	93,755	+939,764
1909	1,329	5,177,962	215,446	17,087	97,612	+952,320

* Number despatched only.

† Exclusive of cost of telephone construction.

The number of telegrams received and despatched during the year, inland telegrams being counted once only, amounted to 4,810,302, or 2·96 per head of population.

TELEGRAPH AND CABLE RATES.

The rates for the transmission of telegrams within New South Wales and to the other States of the Commonwealth were determined by the Post and Telegraph Rates Act, 1902, and came into force on the 1st November, 1902. For ordinary telegrams not exceeding sixteen words, including the address and signature, the charges are 6d. in town and suburban districts within prescribed limits or within 15 miles of the sending station; 9d. to other places within the State; and 1s. for messages sent to any other State of the Commonwealth; in each case an extra charge of 1d. is made for each additional word. Double rates are imposed for the transmission of telegrams on Sunday, Christmas Day, and Good Friday, and between the hours of 8 p.m. and 9 a.m., and for urgent telegrams.

The rates per word for cables sent from New South Wales are :—To Norfolk Island, 3d.; New Zealand, 4½d.; New Caledonia, 9d.; Fiji, 8d.; United Kingdom, 3s.; and to South African Colonies, 2s. 3d.

CABLE SERVICES.

Cable communication with Europe was opened in 1872 by means of a submarine cable from Singapore to Port Darwin, whence messages were transmitted by the overland telegraph to Port Augusta in South Australia. In 1879 the company controlling the cable duplicated the line, and was paid an annual subsidy by New South Wales, Victoria, South Australia, Western Australia, and Tasmania. In 1891 the Government of New South Wales, in conjunction with other Australian Governments, undertook to pay the

company an annual amount equal to half the loss it might sustain by a reduction in the schedule of cable charges. In the following year the contracting Governments agreed to contribute towards the amount required to bring the South Australian revenue, on international telegrams, up to £37,552.

A cable, laid in 1876, connecting New Zealand with New South Wales was subsidised for ten years after its opening.

In 1893 a cable from New Caledonia to Queensland was opened by a French company, to whom New South Wales and Queensland agreed to pay an annual subsidy for thirty years.

In 1899 it was decided by the Governments of the United Kingdom, Canada, and Australasia to construct a Pacific cable touching only British territory on its way from Australia to America. This line, which was completed in 1902, connects Southport, in Queensland, with Vancouver *via* Norfolk Island, Fiji, and Fanning Island. There is also a branch from Norfolk Island to New Zealand.

The direct Cape cable, from Durban to Fremantle, which provides an alternative all-British route to that of the Pacific, was completed in 1901.

The contributions which New South Wales was called upon to pay to cable companies during the year 1909, were—Queensland-New Caledonian Guarantee, £2,000; Pacific Cable, £6,932; total, £8,932. The other guarantees and subsidies have now lapsed.

The following table shows the amount of outward business transacted by New South Wales, with Europe and the East, during the last ten years:—

Year.	Cable Messages sent from New South Wales.	Amount received.	Year.	Cable Messages sent from New South Wales.	Amount received.
	No.	£		No.	£
1900	35,740	97,888	1905	82,519	39,254
1901	43,005	90,716	1906	96,478	101,302
1902	79,805	84,368	1907	106,830	106,502
1903	78,795	78,197	1908	108,634	104,705
1904	76,713	78,406	1909	108,031	104,298

The number of messages sent in 1909 was more than three times the number in 1900, and the revenue shows an increase of 7 per cent.

WIRELESS TELEGRAPHY.

Arrangements are being made for the installation of wireless telegraphy at Sydney and Fremantle, and it is proposed to establish various other stations on the Australian coast and in New Guinea. A scheme for connecting Australia and the Pacific Islands by wireless telegraphy was formulated by representatives of Australia, New Zealand, and Fiji, and the Admiralty, who met in conference in Melbourne in 1909. The scheme involves the erection of stations at Sydney, at Doubtless Bay (New Zealand), and at Suva (Fiji), also in the Solomon Islands, Ocean Island, and the New Hebrides.

TELEPHONES.

Telephone exchanges have been established in Sydney and other important centres of population. A long-distance service between Sydney and Newcastle was inaugurated in 1898, and since that year several towns have been connected with the metropolis. A telephone line from Sydney to Melbourne was opened in 1907.

Since 1897 a reduction in the charges has resulted in a considerable increase in the number of subscribers. The following table shows the growth of the service during the last ten years :—

Year.	Exchanges	Connections.			Cost of construction (including expenditure on tunnels).	Rental received.
		Sydney and Suburbs.	Country.	Total.		
	No.	No.	No.	No.	£	£
1900	45	7,502	1,253	8,755	69,687	70,877
1901	48	8,398	1,466	9,864	44,051	81,852
1902	51	9,401	1,678	11,079	21,684	96,200
1903	57	10,193	1,893	12,091	19,687	105,002
1904	61	11,046	2,092	13,138	14,001	116,328
1905	64	11,909	2,315	14,224	18,988	127,514
1906	76	12,670	2,783	15,453	26,065	144,983
1907	96	14,634	4,355	18,989	86,139	164,151
1908	113	15,392	6,022	21,414	85,422	161,016
1909	132	18,239	7,443	25,682	79,715	175,960

There are also telephone stations in the country used in conjunction with the Telegraph service.

Prior to the 31st January, 1907, the telephone subscribers were charged, under the flat-rate system, a fixed annual rental irrespective of the number of calls made by them, but on that date a toll system was introduced throughout the Commonwealth, under which extra payment was required for all calls in excess of 1,000 in each half-year. These rates were applied only to new subscribers, those already connected being allowed the option of continuing under the old rates.

The financial results under this system were not satisfactory, and in 1909 it was decided that the rates should be revised. The new scale of charges, as shown below, apply to all subscribers, and were brought into effect on the 1st September, 1910 :—

In telephone networks having a population of—	Radius of network with main Exchange as centre.	Minimum annual charge—		
		For an exclusive service.	For each subscriber or instrument on a two-party service.	For each subscriber or instrument on a three or more party service.
	Miles.	£ s. d.	£ s. d.	£ s. d.
From 1 to 10,000	5	3 0 0	2 10 0	2 0 0
„ 10,001 to 100,000	10	3 10 0	2 15 0	2 5 0
„ 100,001 upwards	10	4 0 0	3 0 0	2 10 0

In addition, all effective calls originated by each subscriber are charged as follows :—

Not exceeding 2,000 half-yearly, 2 calls for 1d.

All calls over 2,000 half-yearly, 3 calls for 1d.

The necessary equipment is provided and maintained by the Department.

EDUCATION.

THE STATE SYSTEM OF EDUCATION.

THE development of the educational system of this State has been a gradual progression from desultory and unorganised methods of instruction to the sustained and systematic plan of the present day.

Until the year 1848 the schools were conducted for the most part under the auspices of the various denominations, the cost being provided by means of voluntary contributions, aided by State subventions, and the degree of education achieved depending on the relative zeal and conscientiousness of the teachers in charge. There was no inspection of the schools, in the modern sense of the term, and no co-ordination in the work of the several denominations.

The Board of National Education was incorporated in 1848, and was entrusted with a modified control of the "National" and Denominational Schools, each of which was subsidised by the State, although working in many country towns on most injurious terms of rivalry.

The Council of Education came into existence under the provisions of the Act of 1866, and was entrusted with the disposition of the monies provided by the State for primary education. Under this arrangement, the money subsidy to Denominational Schools was conditioned on the course of instruction reaching a prescribed standard, and the schools were subject to inspection by the Council's officers.

The continuance of two types of schools, each receiving aid from the State, proved most unsatisfactory, and a public agitation, extending over several years, culminated, in the year 1880, with the enactment of the present law, under which the administration of the system of public education is vested directly in a responsible Minister of State.

The Act requires that every child of the ages between six and fourteen years shall attend school for a minimum period of seventy days in each half-year, unless cause for exemption can be shown; and, as a natural corollary, the State provides schools and tuition wherever the requirements of any locality are demonstrated.

The teaching in these State schools is absolutely free of cost to the parents of the children, and, although it is permissible to send children to schools conducted by religious denominations, and by private persons, the subsidies formerly given to Denominational Schools have been abolished.

Provision is made for public schools, to afford primary instruction to all children without sectarian or class distinction; for superior public schools, in which additional lessons in the higher branches may be given; for evening public schools, with the object of instructing persons who have not received the advantages of primary education while of school age; and for high schools for boys and girls, in which the course of instruction will complete the public school curriculum and prepare students for the University. In all schools administered under the Act the teaching is strictly non-sectarian; but the words "secular instruction" are held to include general religious teaching, as distinguished from dogmatic or polemic theology. The history of England and of Australia also forms part of the course of secular instruction.

Four hours during each school day must be devoted to secular instruction, exclusively; and one hour each day may be set apart for religious instruction,

to be given in a separate class-room by a clergyman or religious teacher of any persuasion to children of the same sect whose parents have no objection to such instruction. Children of different persuasions must be instructed on different days, and in the case of non-attendance of the clergyman at the time set apart, ordinary secular instruction must be given.

Special arrangements are made for the conveyance of children to school. They are allowed to travel free by rail to the nearest public or private primary school, to the nearest superior public school, provided they are sufficiently advanced to be enrolled in the fifth class, and to the High Schools. In districts remote from the railway, coaches are subsidised by the Government to convey children to and from the nearest school.

Other sections of the Act provide for the establishment of provisional schools, and the appointment of itinerant teachers in remote and thinly-populated districts. The multiplication of small schools in the various districts has, however, recently fallen into disfavour, as it is recognised that one central school would offer the dual advantage of greater economy and increased efficiency. Where possible, it is intended to abolish clusters of small schools, and replace them with well-equipped central institutions, to which the children will be conveyed free of charge.

In thinly-populated districts so remote from a State School that attendance is impracticable, the State grants subsidies to small private schools.

The local supervision of the public schools is placed in the hands of School Boards appointed in the various districts of the State, under the provisions of the Public Instruction Act. These Boards are supposed to exercise a general oversight in regard to the public schools in their districts. They may suspend teachers in cases of gross misconduct; endeavour to induce parents to send their children regularly to school, and report the names of parents or guardians who refuse or fail to educate their children. They may not, however, interfere with the internal discipline or management of the schools, which remain under the direct control of the Minister of Public Instruction, through the inspectors and other officers of his Department. The total number of Boards in operation at the close of 1909 was 325; but few take material interest in the welfare of the schools in their district.

MODERN DEVELOPMENT.

With the advent of the present century, tokens became evident that, valuable as the system adopted and adjusted from time to time had proved in the educational development of the State, the necessity existed for devising plans and methods more in consonance with modern ideals as to the training of the young. Much discussion by experts, and close investigation of the systems in force in other countries, led to the assembly of a large representative Conference, convened by the Government early in the year 1904, wherein resolutions were adopted in favour of the following course of action:—

- (1.) The gradual termination of the Pupil-teacher system, and the introduction of the system of "previous training."
- (2.) The establishment of a Chair of Pedagogy in connection with the Sydney University.
- (3.) The provision and equipment of a Normal School, and practising school attached.
- (4.) The organisation of local training schools in country districts to provide suitable teachers for small country schools.
- (5.) The establishment of a Kindergarten College for the training of teachers.

- (6.) The sending of students to Europe—
 - (a) To study and report on the best methods of training teachers as adopted in the most renowned normal colleges.
 - (b) To study the theory and practice of Sloyd.
- (7.) The extension of Science teaching, Nature-study; and in girls' departments, domestic economy.
- (8.) The establishment of truant schools, and of schools for the feeble-minded.
- (9.) Improvements, as recommended by the Commissioners, in regard to school hygiene.
- (10.) The introduction of a monthly school paper.

With the new departure it was at once evident that to effect practical results considerable modifications were essential as to the mode of teaching, and consequently as to the methods of inspection of schools.

Steps were at once taken to secure the thorough training of teachers prior to their entry upon duty in the schools instead of the old plan under which their training as teachers was concurrent with their own duties of teachers of the school children, the term "pupil-teacher" having been used in earlier years to designate teachers in the first stage of their work.

THE SYLLABUS.

In the year 1905 a Syllabus of Instruction, drawn up to accord with the new plans and ideals, was issued to the teachers of schools for their guidance. It was designed with the intention of giving full scope to the aim of so combining and presenting the subjects of study as to render the mental powers of the pupil a forceful aid to the efforts of the teacher, to make the school life an inherent and pleasant portion of the child's life environment, and, in fine, to lay worthy foundations of his future citizenship.

The syllabus consists of six distinct groups of subjects, the treatment of which, by a gradual progression, covers the seven periods of school life—from the simple to the more advanced stage when pupils enter upon their secondary education.

The groups are as follow :—

English.—Correct speech, reading, writing, spelling, composition, recitation, grammar.

Mathematics.—Arithmetic, mensuration, algebra, geometry.

Nature Knowledge.—Geography, object-lessons, elementary science.

Civics and Morals.—History, scripture, moral duties, citizenship.

Art Manual Work.—Drawing, brushwork, kindergarten exercises, modeling, woodwork, needlework.

Musical and Physical Education.

The course outlined for the guidance of the First Class Infants' Department will be completed, under ordinary conditions, at the age of eight years. Thence in point of time the work of the second, third, and fourth classes will proceed in gradations of one year each, the pupil will enter the Fifth Class on attaining his eleventh birthday, and will not be promoted to the Sixth Class until he has shown that the fifth course has been fully surmounted.

As to his further training, in the language of the syllabus :—

"A large majority of the pupils will not reach a standard beyond that of the Fifth Class. The work of this class should therefore round-off a distinct stage in the primary course. Upon the completion of it the pupil should be

able to read ordinary English intelligently, make use of his ability to read in furthering his knowledge, express himself in clear and correct language, carry out the most common calculations of trade and business, have a general knowledge of the surface of the earth, some elementary natural phenomena, and the main features of the history of England and Australia, have acquired a degree of skill of hand that will assist him in the use of tools, and a training in moral and civic duties that will form a basis for future citizenship. In girls' schools the course will have been modified to admit of the acquirement of knowledge and skill that will afterwards be of use in domestic and family pursuits.

"Only a limited number of pupils are able to take up the work of the sixth and seventh classes, and, regarding fifth-class work as terminating the primary course, only those pupils who have satisfactorily completed it should be placed in higher classes. The head of a department in which sixth and seventh classes are in operation should therefore ascertain in the case of each individual pupil, by estimating the general character of his work in fifth class, and by individual examination tests in English and Mathematics, that the primary course has been satisfactorily completed before he is promoted to the higher classes. This condition will make it necessary for some pupils to remain longer than one year in the fifth class, while at the same time it will furnish a stimulus to industry and care on the part of the older pupils."

The procedure as to the sixth and seventh classes is seen in a further extract from the syllabus as follows:—

"The Higher Primary Course of Instruction is designed for those pupils who remain at school for one or two years after completing the Primary Course. As a rule it will be taken by pupils of an age from 13 to 15 years.

"This course aims at the continuance of a broad general education, with a special direction of the knowledge and training of the pupils towards the class of employment they are likely to enter after leaving school. For some, this entails a preparation for public examination, but in order to qualify them for such examination the course of instruction should not be unduly limited. It needs to be recognised in the work of these classes that both boys and girls should acquire at school a preliminary stock of readily available information, a mental grasp, and a general intelligence beyond what mere preparation for an examination will supply.

"The boy or girl leaving these classes should have acquired to a reasonable extent the power of self-direction in study so that the pupil of 13 may develop into the student of 15 or 16 years of age, carrying into his occupation, or into his further studies the power to direct his own efforts towards the successful accomplishment of the work which he finds he has to do. With this object in view it is necessary that self-reliant efforts on the part of the pupil should accompany the work of the teacher.

"As has been shown in the preceding notes, only those pupils should be admitted to Sixth and Seventh Classes who are qualified for taking up the work of these classes by having satisfactorily completed the Primary Course."

"The subjects of study in the Higher Primary Course are the following:—

"English, Mathematics, Geography, History, Science, Physical Training, Music, Scripture, Drawing (and other manual work when practicable), Latin (optional), and French (optional)."

"The inclusion of Hand Work other than Drawing is contingent upon the necessary provision for it being made. Latin and French should be taken up only by pupils who are likely to remain at school long enough to reach a really useful stage in the study of these languages. The wishes of

parents in this matter, and the nature of the future career of the pupils should be considered in this connection, but no pupil who is likely to spend only a few months upon these studies should waste time by entering upon them. None of the remaining subjects should be omitted at any time from the course of instruction, though the treatment of them may be modified to suit the examination or other special purpose for which preparation is being made. When a general course is followed without reference to any examination, the syllabus indicates the line of study."

As previously remarked, the methods of inspection have been radically altered to accord with the spirit pervading the new syllabus. The detailed exhaustive examination of schools has been abandoned, a quarterly examination by the principal of the school in certain subjects having been substituted, which is tested at various points so as to bring the inspector and teacher into close and friendly contact in their co-ordinate duties.

This mode enables the inspector to devote his attention to general observation of the work of the school, inspecting minutely where signs of weakness may be apparent. In most subjects the examination will be found sufficient if the inspector, after carefully observing the teacher's methods, ascertain by questions the extent by which the pupils are benefited.

As the result of his examination, the Inspector will assess the value of the teaching, with special reference to various considerations as detailed in his official instructions.

During each year it is expected that the Inspector will meet the teachers of his district at various centres as far as practicable. The meetings will be devoted to lectures, essays, and the discussion of moot educational topics.

As a whole, the new plan of inspection is admirably designed to consolidate the forces, the creation of which is contemplated by the syllabus.

The most anxious consideration in connection with the reformed scheme of education is the furtherance of an economic and effective plan of higher education to follow the initial training of the Primary Schools. The main object to be sought is the establishment of defined courses of study to meet the requirements of students to fit them for the avenues of life in which they will be placed, with the very desirable ultimate aim of regarding the State University as the summit of the educational edifice.

The attention of the educational authorities is therefore occupied with the extension of facilities for higher education. The establishment of the District Schools, the Trade and Continuation Schools for the children of rural districts as well as city children, and the reorganisation of the scholarship and bursary system by which deserving pupils from the most remote country schools may pass to the highest stages of scientific instruction, are steps towards this object which have met with general approval.

RELIGIOUS INSTRUCTION IN STATE SCHOOLS.

The advantage of the provision permitting religious instruction to be given to scholars in State schools has not been used to a very great extent by the various denominations.

The total number of visits paid by clergymen and religious teachers during the year 1909 was as follows:—

Denomination.	Number of visits.
Church of England	24,977
Roman Catholic	936
Presbyterian	6,920
Methodist... ..	8,301
Other Denominations	4,542
Total	45,676

Nearly 46,000 visits were paid to public schools by religious teachers during 1909, that is to say, 1,000 visits were paid each week that the schools were open. Stated thus, the result may appear satisfactory; but if the visits be compared with the number of opportunities for religious teaching available under the Act, a less favourable light is thrown upon the subject. Taking into consideration the number of schools in existence, and the time during which they were open, it is found that the visits by all the denominations taken together represented only a little more than 10 per cent. of the opportunities afforded.

There are many schools in remote country districts, among scattered populations, where it is impossible for the religious teachers to attend, and consequently the figures just quoted represent an extreme case; but, assuming that one-half of the schools are practically inaccessible for purposes of religious instruction, thereby doubling the quoted ratio of visits, it does not appear that the visitations approach in a material degree the opportunities afforded by law.

In connection with this matter it may be interesting to note that, in all parts of the civilised world a considerable amount of attention is bestowed on the problem of moral education, and efforts are being made to devise the best means of teaching ethics in the public schools. It has been recognised that for many people the best foundation lies in religious instruction.

SCHOOLS.

At the inception of the Public Instruction Act, in 1880, there were 1,220 schools maintained or subsidised by the State, viz:—

Public schools	...	...	...	...	705
Provincial schools	...	...	...	...	313
Half-time	..	...	...	...	97
Denominational schools	...	...	...	...	105

1,220

The following table affords a comparison between the number of State schools in operation in 1881, the first full year in which the Department was under immediate ministerial control, and the number open in the year 1909; the figures represent the gross number of schools in operation at any time during the year, and are not comparable with those shown later referring to the number remaining open at the end of the year:—

Type of School.	Schools in operation.	
	1881.	1909.
High schools	.....	5
Public	1,100	1,963
Provisional	246	459
Half-time	93	322
House-to-house	.....	10
Evening	57	42
Subsidised	.....	411
Reformatory	2	3
	1,498	3,215

It is evident that, even with the loss of the denominational schools, the number of schools had largely increased (from 1,220 to 1,498) during the first year the new Act was in force, and the number has since that time more than doubled.

In the earlier year there was accommodation in the schools for 98,721 children, and at the present time for 234,650; and comparison of the latter

number with the average attendance at the present time shows that there is, on the whole, ample space in the school buildings to meet requirements.

The granting of subsidies for the education of children resident in places far removed from any State-aided schools has been instituted during recent years, with good effect. The conditions upon which aid is granted are that two or more families must combine to engage a private teacher, who, after approval of the Minister as to his qualifications, will receive a subsidy at the rate of £5 per pupil per annum, the maximum amount being £50 per school. The number of such schools at the end of 1909 was 344, as compared with 160 five years ago, and the public appreciation of their usefulness, apparently, is increasing. The enrolment at these schools in the December quarter of 1909 was 3,179, and the average attendance 2,459.

In 1904 a system of consolidating small schools was brought into operation. The Department of Public Instruction undertakes to grant a subsidy for the conveyance, to one central school, of children who hitherto attended small schools in close proximity. The advantages of this system are that better buildings and equipment, as well as a larger teaching staff, can be provided, and a higher range of instruction imparted, than at several small schools.

An experiment was initiated in 1908 towards providing means of education for families so isolated that even two could not readily combine to form a subsidised school. A travelling school was established in the Narrabri district; the teacher was provided with a vehicle to carry school requisites and a tent to use as a schoolroom. He was instructed to teach a week at a time at each centre in his circuit.

Special attention has been given to the teaching of elementary principles of agriculture, and gardens and experimental plots have been established in connection with a large number of schools. In 1905 an Instructor of School Agriculture was appointed to direct the work of the teachers; his duties are to visit schools in the interests of school agriculture, and to supply the teachers with information required to direct the work of the pupils. Rural camp schools are also held from time to time where metropolitan school-boys are accommodated for a short period while they visit dairies, farms, &c., under suitable guidance, and are instructed by direct illustration. The object of these camps is to familiarise city lads with the important rural industries of the State.

There are three kindergarten schools in connection with the public schools. Their enrolment in 1909 was 519 boys and 463 girls, with an average attendance of 695.

In addition to the schools under the control of the State there are the private schools, a large number of which are conducted under the auspices of the religious bodies.

The total number of schools in operation at the end of each of the past ten years, inclusive of all private schools, is supplied in the following table :—

Year.	Public.	Private.	Total.
1900	2,745	912	3,657
1901	2,818	889	3,707
1902	2,846	868	3,714
1903	2,862	841	3,703
1904	2,870	852	3,722
1905	2,901	853	3,754
1906	2,885	852	3,737
1907	2,918	806	3,724
1908	3,002	792	3,794
1909	3,075	789	3,864

As to numerical strength, the public schools exhibited a condition of stagnation during the middle period covered by the table, but during the last two years an advance is apparent, due mainly to the extension of small schools in scattered districts; and presumably, as the school population for some years past has been practically stationary, and as requirements have been met in former years, not much extension was necessary. The increase during the period has been 330 schools, equivalent to about 12 per cent.

As to the private schools, there has been practically a continuous drop in their number since 1900, when there were 912, until in 1909 there were 789, a decrease of 123, or 13·4 per cent. The Roman Catholic schools show a substantial increase, in contrast to the diminution of the private schools as a class. There were 325 Roman Catholic schools in 1900 and 392 in 1909, or an advance of 21 per cent.

In the above table the figures are exclusive of the Sydney Grammar School, the Ragged and Free Kindergarten Schools, and the New South Wales Institution for the Deaf and Dumb and the Blind. The Ragged Schools numbered 5, with 10 teachers; the enrolment in 1909 was 206, with an average attendance of 173 children. These schools are maintained by private subscriptions for the care and control of poor children in the thickly-populated parts of the metropolis. Clothes and food are provided when necessary. In consequence of the abolition of fees in the public schools and the general improvement in the social condition of the people there has been a considerable decrease in the attendance at these schools.

The Free Kindergarten schools are conducted by the Kindergarten Union of New South Wales. The chief source of revenue is private charity, assisted by a grant from the Government. There were 11 Free Kindergarten schools in 1909 with 53 teachers. The number of scholars on the roll during the December quarter was 652, of whom 602 were under 6 years of age. The average daily attendance was 456.

Provision is made for the education of deaf and dumb and blind children at the school in connection with the Institution for the Deaf and Dumb and the Blind. There were 144 children enrolled in 1909. This institution receives an annual grant from the Government, and the school fees are remitted in cases where the parents are unable to pay.

TEACHERS.

The teachers in the public schools of the State at the end of 1909 numbered 6,176 (3,278 males and 2,898 females). These figures include 344 teachers of subsidised schools. The average number of pupils per teacher, on the basis of the mean quarterly enrolment was 35, and the average attendance per teacher, 26, while the average quarterly enrolment of children per school was 71. The following table shows the classification of the teaching staff at the end of 1909:—

Grade.	Males.	Females.	Total.
Principal Teachers	2,193	333	2,526
Mistresses of Departments ... ..	...	215	215
Assistants	811	1,627	2,438
Pupil-teachers	59	152	211
Students in Training	155	141	296
Sewing-mistresses ... ..	...	105	105
Subsidised School Teachers	35	309	344
High School Teachers	25	16	41
Total	3,278	2,898	6,176

The State school teachers are graded and obtain promotion from class to class after passing a series of examinations, which are framed to test their progress in scholastic attainments as well as their skill in imparting knowledge. For long and meritorious service, however, a teacher may receive promotion from one section to another in the same grade.

At the beginning of the year 1908 new regulations were introduced dealing with the classification of schools, and the salaries, classification, and promotion of teachers. Previously the salaries paid to classified teachers in charge of schools depended entirely on the classification of their schools as determined by the average attendance. Under the new scheme the classification is rendered more stable by restrictions upon the transference of schools from class to class, and arrangements have been made by which the teachers' promotion depends not only on the promotion of their schools but also on the improvement of their qualifications. To qualify for a higher grade the teachers must pass a series of examinations, but to obtain promotion they must show also the requisite degree of efficiency in practical work.

The salaries paid to teachers are shown in the following statement:—

	Males.	Females.
	£	£
Principal Teachers—		
Average attendance—600 and upwards...	350 to 400	.....
400—600	312 to 324	.....
200—400	240 to 280	.....
50—200	204 to 240	.....
30— 50	150 to 186	.....
20— 30	138 to 144	.....
Under 20	100 to 132	.....
Mistresses of Girls' Departments ... ..	.....	200 to 280
Infants' Departments ... ..	.....	180 to 228
Assistants—Classified	102 to 280	96 to 202
Ex-students of Training College	96 to 168	90 to 120
Ex-pupil-teachers	90 to 96	84 to 90
Pupil-teachers	40 to 72	25 to 60
Junior Assistants	60 to 72	48 to 60

In addition to these rates, special allowances are made to teachers of District schools and to teachers of special subjects, such as Science, Manual Training, Cookery, &c. If married, teachers in charge of schools are granted residences, or rent in lieu. Extra allowances may also be granted to teachers stationed in remote localities, where the cost of living is high. Teachers in half-time schools are paid at the same rates as those in public schools of corresponding classification, and teachers of house-to-house schools receive £5 per head of average attendance, with a maximum of £90 per annum, or an annual salary ranging up to £104.

The following table shows the number of teachers in State and Private Schools during the last ten years :—

Year.	Teachers.		
	State Schools.	Private Schools.	Total.
1900	5,063	3,352	8,415
1901	5,212	3,353	8,565
1902	5,401	3,339	8,740
1903	5,589	3,368	8,957
1904	5,699	3,396	9,095
1905	5,719	3,482	9,201
1906	5,758	3,557	9,315
1907	5,965	3,524	9,489
1908	6,012	3,501	9,513
1909	6,176	3,633	9,809

In State Schools, excluding Evening and Subsidised Schools, there was, at the end of 1909, one teacher for every 26 pupils in average attendance, and in private schools 1 teacher to 13 pupils. The figures for the latter schools, however, include a number of teachers who do not devote the whole of their time to one school.

TRAINING OF TEACHERS.

In accordance with the general reformation of the educational system in New South Wales after the conference of 1904, a complete reorganisation of the methods of training teachers has been undertaken. Until the year 1905 the teachers in the State Schools, with few exceptions, commenced their career between the ages of 14 and 16 years as pupil-teachers. As such they were charged with the instruction of a certain number of children; in return for their services they received instruction and practical advice from the principals of the schools where they were employed, in addition to a small salary. After serving four years, those who passed the qualifying examinations were admitted to a course at the Training Colleges—the males at a non-residential institution in connection with Fort-street Model School; and the females at Hurlstone College, where residence was provided for them.

The pupil-teachers who did not enter the training schools were appointed as assistants, or were placed in charge of small schools, and after a lapse of time were allowed to compete on the same footing as the trained teachers. There was also a large number of practically untrained teachers, who had entered the service as teachers of small schools in outlying districts, many of whom, by perseverance and natural aptitude, had attained positions of considerable importance. But it had been generally recognised that a system, wherein persons are entrusted with the instruction of children without previous training, or are allowed to teach for four years before training, is not consistent with modern progression, and, moreover, that the service suffered by the exclusion of desirable persons who had continued their education beyond the age of admission of pupil-teachers.

Under the revised scheme the pupil-teacher system is being abandoned gradually, and it is intended that those already employed shall undergo a course of training, and no new teacher shall be appointed unless efficiently trained before he begins to teach. In order to carry out this scheme, it is intended to establish a properly-appointed training college in proximity to the University, where teachers may be trained for private schools as well as for the State service.

The training schools at Hurlstone and Fort-street were closed in 1905, and pending the erection of a new building, the work of training is carried on at the Blackfriars Public School, as the best available institution convenient to the University and Technical College.

The course provided at the Training College extends over two years, during which opportunities are given to students to graduate at the University. To those who show exceptional ability, a third year is allowed in which to continue their studies in special directions. During the second year courses are provided to prepare students for special work, such as a period at the Hawkesbury Agricultural College for teachers of rural schools, and Kindergarten infants' courses for those who contemplate work in this branch of the service.

Practical training forms a most important part of the work of the College, and a Practice School, established at Blackfriars, has been specially staffed so that the students are enabled to develop their professional work by observation of good models, and to obtain practical experience under efficient masters. In January, 1910, a new school at Newtown North was opened as a practice and observation school. The students also attend demonstration and criticism lessons in other school departments in the metropolitan district. During 1909, there were 298 students in attendance, 156 men and 142 women.

In connection with the training of teachers, it may be noted that by-laws and regulations have recently been adopted by the Senate of the University by which a diploma in Education may be granted to graduates in the Arts or Science courses who have passed through a general professional training in the principles, art, and practice of education. The work of the diploma course at the University may be completed in one year.

In order to attract an adequate supply of teachers for the State schools a liberal scheme of scholarships has been established in connection with the Training College. An annual travelling scholarship is also awarded to ex-students.

The minimum age of admission to the Training College is fixed at 17 years, and it is desirable that the students should attain before entrance a standard of general education which will enable them to devote the two-year course at the college to professional study and practical work. A preparatory course, extending over two years, is therefore provided for probationary students at District Schools, established in connection with various Superior Public Schools. By the distribution of these courses throughout country centres it is expected that the future teachers will be drawn from the rural as well as from the urban districts. By means of scholarships, providing free education during the first year and monetary assistance during the second year, opportunities are afforded to all classes of boys and girls to enter the profession.

To obviate the difficulty of obtaining suitable teachers for small schools in outlying districts, competitive examinations are held, and the successful candidates are admitted to a course of training and instruction for six months in good schools under the supervision of the inspectors. A building has recently been acquired by the Government, which will be converted into an auxiliary to the Training College, for the instruction of teachers for small schools.

Teachers' associations have been formed in many districts, with the object of keeping the teachers in touch with modern educational methods. Meetings are held at frequent intervals for the discussion of educational topics; addresses are delivered, and demonstration and practical lessons are given on subjects of professional interest. Circulating libraries have been established by a large number of these associations.

In isolated districts, where the teachers are unable to attend these meetings, they are allowed to attend for a short period, from time to time, at well-conducted schools.

ENROLMENT OF SCHOLARS.

In order to obtain a review of the comparative enrolment of school children in public and private schools, it is necessary to ascertain the enrolment of scholars for a given period. Such an enrolment is available only for the last quarter in each year, the figures for private schools being supplied for that quarter, and not for the whole year.

The following table shows the distribution of children in public and private schools for the December quarter during each of the last ten years :—

Year.	In Public Schools.	In Private Schools.	Total Children.	Proportion of Total Children Enrolled.	
				In Public Schools.	In Private Schools.
				per cent.	per cent.
1900	209,704	60,327	270,031	77·7	22·3
1901	210,588	60,282	270,870	77·7	22·3
1902	210,726	58,939	269,665	78·1	21·9
1903	211,558	58,258	269,816	78·2	21·8
1904	207,860	57,811	265,671	78·2	21·8
1905	206,010	57,854	263,864	78·1	21·9
1906	207,298	58,707	266,005	77·9	22·1
1907	209,229	57,440	266,669	78·2	21·8
1908	214,495	57,111	271,606	79·0	21·0
1909	213,739	58,361	272,100	78·6	21·4
Average for period	210,121	58,509	268,630	78·2	21·8

The figures in the column relating to total children disclose a condition of stagnation as to numerical strength which has characterised the whole period under review. This feature has been common to both types of school, as evidenced in the average figures at the foot of the table, and is to be attributed mainly to the decline in the birth-rate of the State in recent years.

The relative enrolment of the two types of school, as shown by the percentage distribution in the last two columns, exhibits very little deviation from the average rates per cent., and the proportional figures, viz., 78 per cent. of total children for public schools and 22 per cent. for private schools, may therefore be regarded as indicative of the degree of preference in each case on the part of the general public.

The following table provides a comparative view of the aggregate enrolment in all schools (public and private) for the December quarter during the last ten years; and the figures, being on the same planes of comparison for each year, may be accepted as illustrative of the progression of each type of school during the period.

The first part of the table contains the numerical enrolment and its constituent subdivisions; and the second part supplies the ratios per cent.

which such subdivisions bear to the aggregate enrolment, thus providing a ready means for comparisons :—

Year.	Total.	Public Schools— Denomination of Children.					Private Schools— Denomination of Schools.		
		C.E.	R.C.	Pres.	Meth.	Other.	C.E.	R.C.	Other.
1900	270,031	109,262	31,300	22,944	24,216	21,282	4,158	40,136	16,033
1901	270,870	109,876	31,054	23,511	24,971	21,176	3,966	41,486	14,830
1902	269,665	110,615	30,957	23,586	26,201	19,367	4,263	40,868	13,808
1903	269,816	110,843	31,308	23,841	26,849	18,717	4,466	40,989	12,803
1904	265,671	109,658	30,233	23,829	28,240	15,900	4,116	41,112	12,583
1905	263,864	108,333	29,985	24,070	28,603	15,019	3,954	41,268	12,632
1906	266,005	108,497	30,636	24,207	28,866	15,092	3,922	42,106	12,679
1907	266,669	109,306	31,436	24,453	28,954	15,080	3,434	42,005	12,001
1908	271,606	112,728	32,209	24,913	29,581	15,064	3,415	42,295	11,401
1909	272,100	113,019	31,190	24,941	29,582	15,007	3,308	43,615	11,438

PERCENTAGE OF TOTAL ENROLMENT.

	%	%	%	%	%	%	%	%	%
1900	100	40.46	11.59	8.50	9.23	7.88	1.54	14.86	5.94
1901	100	40.56	11.46	8.68	9.22	7.82	1.46	15.32	5.48
1902	100	41.02	11.48	8.75	9.72	7.18	1.58	15.15	5.12
1903	100	41.08	11.60	8.84	9.95	6.94	1.66	15.19	4.74
1904	100	41.28	11.38	8.97	10.63	5.98	1.55	15.47	4.74
1905	100	41.06	11.36	9.12	10.84	5.69	1.50	15.64	4.79
1906	100	40.79	11.52	9.10	10.85	5.67	1.47	15.83	4.77
1907	100	40.99	11.79	9.17	10.86	5.65	1.29	15.75	4.50
1908	100	41.50	11.86	9.17	10.89	5.55	1.26	15.57	4.20
1909	100	41.54	11.46	9.17	10.87	5.51	1.22	16.03	4.20

The figures in the above tables are exclusive of the University and Affiliated Colleges, Sydney Grammar School, Business and Shorthand Schools, and Schools held in connection with Public Charitable Institutions.

The only denominations which have maintained their own schools to any material extent are the Church of England and the Roman Catholic; and of these two the Roman Catholic unmistakably has shown the greater vigour in its educational work.

It will be noticed that in the public school figures the column headings indicate the denomination of the children, and in the private school figures

the denomination of the schools. In the former case the religion of the child is clearly determined, but in the latter, the pupil, although attending a school of stated denomination, is not necessarily of that religion. It may be assumed, however, for purposes of comparison, that on the whole the religion of the child accords with that of the denomination of the school he is attending, and on this basis we obtain the following comparisons:—

As to the children of the Church of England, its constituent percentages of the total children were—

Year.	Per cent. of Total Children attending School in—		
	Public Schools.	Church of England Schools.	All Schools.
	%	%	%
1900	40·46	1·54	42·00
1901	40·56	1·46	42·02
1902	41·02	1·58	42·60
1903	41·08	1·66	42·74
1904	41·28	1·55	42·83
1905	41·06	1·50	42·56
1906	40·79	1·47	42·26
1907	40·99	1·29	42·28
1908	41·50	1·26	42·76
1909	41·54	1·22	42·76

The percentage evidently has been very constant during the whole period for both classes of schools—public and private—the advance, on the whole, for the period covered by the table being approximately 1 per cent. of the total school children enrolled, and the Church of England children at present attending public schools are to those attending their own denominational schools in the ratio of approximately 97 to 3.

As to Roman Catholic children, the figures appear as follows:—

Year.	Per cent. of Total Children attending School in—		
	Public Schools.	Roman Catholic Schools.	All Schools.
	%	%	%
1900	11·59	14·86	26·45
1901	11·46	15·32	26·78
1902	11·48	15·15	26·63
1903	11·60	15·19	26·79
1904	11·38	15·47	26·85
1905	11·36	15·64	27·00
1906	11·52	15·83	27·35
1907	11·79	15·75	27·54
1908	11·86	15·57	27·43
1909	11·46	16·03	27·49

Here is observed extremely slight fluctuation in the percentage attending public schools, and as to the denominational schools, the rates show a tendency to rise. The Roman Catholic children at present attending public schools are to those attending their own denominational schools in the ratio of 42 to 58.

In both Presbyterian and Methodist denominations a gradual increase was experienced until the year 1904, since which period the percentage of their scholars to the total has been stationary.

The reduction in the proportion of scholars in the unspecified private schools from 6 per cent. in 1900 to $4\frac{1}{2}$ per cent. of the total in 1909, indicates that less support is now given to schools conducted by private individuals acting independently of the public schools and of the recognised religious denominations.

AVERAGE ATTENDANCE.

The following statement supplies a comparison between the mean quarterly enrolment and the average attendance for Public Schools. The pupils attending Subsidised Schools are included only for 1907 and subsequent years. In this case the figures are derived from the rolls for all the quarters of the year, and not for the December quarter only:—

Year.	Mean Quarterly Enrolment.	Average Attendance during the year.	Ratio of Attendance to enrolment.
			per cent.
1900	212,713	153,845	72·3
1901	212,725	154,404	72·6
1902	212,848	155,916	73·3
1903	213,318	154,382	72·3
1904	211,489	153,260	72·5
1905	209,227	152,105	72·7
1906	207,741	151,261	72·8
1907	213,709	152,607	71·4
1908	216,747	155,997	71·9
1909	218,248	160,080	73·3

The ratio of attendance to enrolment in the case of Private Schools is taken from the roll for the December quarter only (except for the last three years, when the average daily attendance during the year is taken), and is as follows:—

Year.	Scholars on Roll December Quarter.	Average Attendance.	Ratio of Attendance to enrolment.
			per cent.
1900	60,327	47,816	79·3
1901	60,282	48,137	79·9
1902	58,939	47,195	80·1
1903	58,258	46,982	80·6
1904	57,811	46,667	80·7
1905	57,854	46,480	80·3
1906	58,707	46,942	80·0
1907	57,440	46,697	81·3
1908	57,111	48,203	84·4
1909	58,361	48,793	83·6

The system of gauging the attendance at school, by reference to a periodic enrolment of greater or less frequency, affords a very indifferent test of the average continuity of the education received by the pupils.

The method hitherto followed has been the adoption of the quarterly enrolment as the standard for comparison of children under tuition, and by means of the average attendance the degree of constancy in the education of children has been determined. It can be shown readily that such a mode of measuring attendance is empiric, conveying false impressions.

The yearly, quarterly, or even weekly, rolls of the pupils are in reality functions of the same variable, known as *daily attendance* (which is really a daily roll), and the longer the intervals of compiling the roll, whether for a week, a quarter, or a year, the greater the error introduced by multiple enrolment into the basis of comparison.

For instance, it is found by the Department of Public Instruction that 13·7 per cent. of this gross yearly enrolment must be deducted to obtain the number of individual pupils enrolled. Furthermore, the effective quarterly enrolment is found to be only 92 per cent. of the yearly roll, and the weekly roll again only 91 per cent. of the quarterly.

Of all the methods hitherto utilised the weekly roll is clearly the best, inasmuch as it most nearly approaches the basis (daily) on which the average attendance is computed, but preferably the average attendance of scholars should be compared with the total children who can be regarded as in need of education. The number of such children can be ascertained very closely; certainly to a much nearer degree than exhibited by the gap between the weekly and quarterly enrolments hitherto in use.

Taking as a basis the number of children under tuition, estimated on the plan just proposed, the following table, showing the proportionate attendance, is obtained:—

Year.	Estimated children of school age. (6-14).	Other Children under and over school age on roll.	Total Children requiring education.	Average Attendance.	Proportion per cent. attending school.
1900	260,700	44,862	305,562	201,661	66·0
1901	264,200	44,509	308,709	202,541	65·6
1902	266,500	44,907	311,407	203,111	65·2
1903	265,400	44,682	310,082	201,364	64·9
1904	266,100	44,606	310,706	199,927	64·3
1905	264,200	40,352	304,552	198,585	65·2
1906	262,500	41,436	303,936	198,203	65·2
1907	260,800	43,111	303,911	199,304	65·6
1908	259,400	42,551	301,951	204,203	67·6
1909	259,200	43,242	302,442	208,872	69·1

The figures in this table are exclusive of the Sydney Grammar School, Business and Shorthand Schools, Ragged and Free Kindergarten Schools, and the school in connection with the Institution for the Deaf and Dumb and the Blind, as all the particulars are not available.

The ages of scholars at State Schools during the last fifteen years are shown in the following table, which is an approximate statement, based on the mean quarterly enrolment:—

Year.	Under 6 years.	6 years and under 14.	14 years and over.	Total.
1895	11,701	165,405	14,969	192,075
1896	11,585	170,042	15,398	197,025
1897	11,479	174,054	16,414	201,947
1898	10,675	175,677	17,558	203,910
1899	10,590	179,186	18,856	208,632
1900	10,183	182,631	19,899	212,713
1901	10,262	182,580	19,883	212,725
1902	8,777	182,962	21,109	212,848
1903	8,413	182,421	22,484	213,318
1904	8,559	180,480	22,450	211,489
1905	7,430	182,460	19,337	209,227
1906	8,302	180,228	19,211	207,741
1907	8,762	184,858	20,089	213,709
1908	8,933	187,750	20,064	216,747
1909	9,613	189,074	19,561	218,248

The ages of children enrolled at Private Schools during the December quarter of each year since 1895 are as follows:—

Year.	Under 6 years.	6 years and under 14.	14 years and over.	Total.
1895	6,642	39,037	5,972	51,651
1896	6,929	40,376	6,662	53,967
1897	6,581	42,890	6,672	56,143
1898	6,710	44,297	7,172	58,179
1899	6,896	45,294	7,969	60,159
1900	6,821	45,447	8,059	60,327
1901	6,019	45,918	8,345	60,282
1902	5,507	44,918	8,514	58,939
1903	5,336	44,473	8,449	58,258
1904	5,193	44,214	8,404	57,811
1905	4,848	44,269	8,737	57,854
1906	4,972	44,784	8,951	58,707
1907	4,859	43,180	9,401	57,440
1908	4,839	43,549	8,723	57,111
1909	5,007	44,293	9,061	58,361

HIGHER EDUCATION.

The State has made provision for higher education by the establishment of High Schools, Superior Public Schools, and District Schools.

A complete secondary course, extending over four years, is provided at the High Schools, and the curriculum is specially arranged to enable pupils to qualify for entrance to the University. Candidates for entrance to the High School must show a certain degree of proficiency, as admission is obtained by examination. In 1909 there were five High Schools—two in Sydney and two in Maitland, one in each place being for boys and the other for girls, and one in Newcastle where both boys and girls attend. The total enrolment for the year was 1,035. The boys numbered 533 and the girls 502. The average daily attendance was 786. The expenditure amounted in 1909 to £10,204, and the fees received to £3,706, so that the net cost to the State was £6,498, or £6 5s. 6d. per head of the total enrolment. The holders of scholarships and bursaries in attendance during the December quarter numbered 220 and 151 respectively.

Instruction for two years beyond the primary course is given at the Superior Public Schools. The course is designed for pupils between the ages of 13 and 15 years who have satisfactorily completed the primary course. These schools continue the work of the primary schools, but the work is conducted on a more practical basis, and such additional subjects are taught as will enable the pupils to compete at the senior and junior public examinations.

By establishing efficient schools in country districts and adapting their curriculum to practical requirements by instruction in agriculture and manual arts, much may be done to develop the natural resources and to check the abnormal growth of the metropolitan centre at the expense of the rural districts. District Schools have therefore been established in twenty-five country towns as adjuncts to the Superior Public Schools, and supply an additional two-years course of study as higher education for country children. The course includes instruction in science, manual training and agriculture, and the practical application of these principles. The District Schools also serve as preparatory training schools for young people who desire to enter the teaching profession.

In 1909, at the public examinations held in connection with the University, 103 pupils of the High Schools passed the junior, 34 the senior, and 77

qualified for matriculation. Of the pupils attending the Superior Public and District Schools 225 passed the junior and 15 the senior examinations; all the senior passes and 119 of the junior were gained by the pupils of Fort-street Model, Sydney, which has been made a centre for advanced students from all the suburban districts. Of the total passes of all candidates from New South Wales at the junior examination in 1909, over 46 per cent. were obtained by pupils attending the State schools.

In addition to the various classes of State Schools, the Sydney Grammar School receives an annual subsidy from the Government. This school was incorporated by an Act of Parliament of 1854, and was established to confer on all classes and denominations of British subjects the advantages of a regular and liberal course of education. The Act authorised the payment of £20,000 for the erection of school buildings, and an annual endowment of £1,500. There were 26 teachers in 1909, and 581 scholars were enrolled in the December quarter, 469 being over 14 years of age. The average daily attendance was 574.

The principal religious bodies provide high schools and colleges where students may be educated according to the precepts of their various beliefs, and be prepared to compete for University honors or for the various professions which they may adopt. Evidence of the progress of superior denominational education in the State may be seen in the magnificent college buildings which surround the city, among which may be cited the old-established King's School at Parramatta, Newington College, the Catholic Colleges at Hunter's Hill and Riverview, the North Sydney Church of England Grammar School, the Scots' College, the Presbyterian Ladies' College at Croydon, and many other first-class establishments conducted under the patronage of the various religious bodies.

TECHNICAL EDUCATION.

Technical education in New South Wales has grown fortuitously, without any systematic plan of development, and urgent necessity of a well-organised scheme of industrial education is now generally recognised. The efforts of the Department of Public Instruction are restricted by the limited funds at its disposal, but the plans for technical instruction during recent years have shown steady progress.

The foundation of the New South Wales Technical School was due in great measure to the efforts of a few enthusiasts connected with the Sydney Mechanics' School of Arts; and, as far back as 1873, it was decided to establish a Technical College, affiliated to that institution, with the object of improving the scientific knowledge of Australian artisans. In the year 1878 a sum of £2,000 was granted by Parliament towards the organisation of a Technical College, and for five years the work of the institution was carried on in connection with the School of Arts. In 1883, however, a board was appointed by the Government to take over the management, and the Technical College then became a State institution. In addition to the classes held in the metropolis, lectures were delivered by itinerant lecturers in country towns, and wherever sufficient support was given classes were established.

Towards the end of 1889, the Board was dissolved, and the Technical College placed under the direct control of the Department of Public Instruction. The first step taken by the Department was to provide suitable accommodation for the classes, which were then held in various parts of the city, by the érection of the Technical College, at Ultimo. This central College was opened for the reception of students in January, 1892.

Colleges have also been established in the more important country centres—Bathurst, Newcastle, Maitland, Goulburn, Albury, Broken Hill, and Granville; and classes are held in many other country towns.

The course of instruction includes classes in agriculture, elementary veterinary science, and dairy science, architecture, art, biology, chemistry, domestic science, dressmaking, mechanical and electrical engineering, sanitary engineering, geology, and mining, printing, lithography, photography, rail and road carriage building, saddlery, sheep and wool training, tailors' cutting, the various branches of building and iron trades, naval architecture, motor construction, &c. Classes in bread-making and machine sheep-shearing have also been formed. In the suburban and country districts the most popular classes are cookery, dressmaking, and millinery, and carpentry. In order to meet the demand for teachers of domestic science and dressmaking, special courses of training have been arranged at the Central College.

In the large centres of population outside the city, the courses of instruction have been adapted to the requirements of the local industries. Thus, at Cobar, there are classes in assaying and mineralogy; Granville, in trades-drawing and coach painting; at Balmain, in naval architecture; at Lithgow, in iron and steel manufacture; and at Maitland and Newcastle, in electricity as applied to mining.

A large proportion of students attend evening classes for the purpose of receiving instruction only in a few subjects which are directly related to their daily occupations. They are, in the majority of cases, apprentices who devote their earnings to courses of theoretical instruction with the object of becoming efficient tradesmen. In the absence of other provision for this class of students, they have in the past been encouraged to attend the college, but it is now intended that trade or continuation schools shall be provided for them. A beginning was made by the opening of a trade school at Erskineville, where every branch of bootmaking is taught, and a school of leather-dressing has been established in a central position in the city.

In 1907, a scheme of continuation schools was introduced, the aim being to carry on the general education of the students, and at the same time to give them a thorough training in the theory and practice of subjects bearing upon the staple industries of the State. At the Hurlstone Agricultural Continuation School, practical instruction is given in the art and science of agriculture, leading to the higher course of the Hawkesbury Agricultural College. There were sixty-eight students in 1909. At Newcastle, the continuation school is for lads who intend to follow the engineering trades, and at the Goulburn continuation school they receive training in connection with sheep and wool, while the school at Granville serves a large industrial centre. It is intended to establish a school of mines at Broken Hill, with a course of study embracing assaying, metallurgy, mechanical and electrical engineering, and commercial education.

The Hawkesbury Agricultural College, and several experiment farms maintained by the State under the administration of the Department of Agriculture afford practical and scientific instruction in all subjects relating to agricultural and pastoral pursuits. At the end of 1909 there were 366 students.

A Technical High School is conducted in the Central College buildings with the object of preparing boys for the engineering trades and professions, and for architecture, the great developments now taking place in engineering and architecture making such a school a necessity. The course of instruction is designed to embrace subjects of cultural value, as well as those essential to a preliminary training for these professions. For girls, alternative courses of domestic science, dressmaking, and millinery are provided. The course extends over two years, and well-equipped laboratories and workshops have been provided for scientific and practical instruction.

In 1909, there were 864 classes in operation—162 in Sydney, 117 in the suburbs, 457 in country districts, and 128 in connection with public schools.

The teaching staff consisted of 11 lecturers in charge of departments, 8 resident masters in charge of branch schools, 197 salaried and assistant teachers, and 76 teachers remunerated by fees only. The gross enrolment of students numbered 21,242, of whom 13,015 attended in Sydney and suburbs, and 8,227 in the country. A number of students attended more than one class, and the number of individual students was 15,470, with an average weekly attendance of 11,466. The great extension of technical education during the last ten years may be seen in the following table:—

Year.	No. of Classes.	Individual Students.	Expenditure.		
			Government.	Fees.	Total.
			£	£	£
1900	264	8,625	22,278	5,324	27,602
1901	331	9,267	23,200	5,742	28,942
1902	431	10,405	26,197	7,278	33,475
1903	572	13,232	26,566	8,707	35,273
1904	647	13,221	25,964	8,824	34,788
1905	625	11,626	25,262	8,129	33,391
1906	654	12,401	26,879	9,306	36,185
1907	718	14,235	33,756	10,029	43,785
1908	790	14,866	51,814	11,207	63,021
1909	864	15,470	61,452	11,684	73,136

The expenditure shown above does not include the amount spent on the Technological Museums.

SCHOLARSHIPS AND BURSARIES.

In order to encourage students, and to assist those who lack the necessary financial means to continue their education at the High Schools and the University, or by training in the industrial arts where manual skill is combined with technical knowledge, the scheme of State scholarships and bursaries was very considerably extended in 1908, and has been made more comprehensive and practical. The State scholarships and bursaries are awarded after competitive examinations which, with few exceptions, are held half-yearly. As it is not advisable to train pupils in the schools of the metropolis or large towns only, as was formerly the rule, the scholars and bursars are expected to attend the nearest school at which the scholarship or bursary is tenable. A scholarship or bursary may be withdrawn at any time if the conduct or progress of the holder is not satisfactory. For the purposes of awarding the scholarship and bursaries which are available for competition in the primary schools, the schools are divided into groups according to the attendance, and a certain number are allotted to each group. In this way, the opportunities of pupils in small schools are equalised with those of larger town and city schools.

The scholarships are distinguished as District and High School, Agricultural, and Technical. They are open to pupils of private as well as State schools, and entitle the holders to free education, and an allowance for text-books, &c. One hundred District and High School scholarships are awarded annually, and are tenable for three years at a District, High, or Superior Public School, or for two years at the Continuation Agricultural School. Three agricultural scholarships tenable for two years at the Hawkesbury Agricultural College are awarded to students of the Agricultural Continuation School.

The Junior Technical Scholarships to the number of 20 per annum are tenable for two years at a Technical College or School. The Intermediate Technical, 12 annually, are open to boys under 15 years of age still attending school, and enable them to attend the day courses of a Technical College. Of the Senior Technical Scholarships four are allotted for competition amongst youths under 18 years who are in employment, and entitle the holders to three years' tuition at the day courses of the Technical Colleges as well as an allowance of £20 per annum; and three are awarded to students of small Technical Schools to enable the holders to complete their course of instruction at a central college.

In the Cookery and Dressmaking Classes at the Sydney Technical College three scholarships in each class are awarded annually to girls over 18 years who desire to become teachers of these subjects. The scholarships are tenable for three years; but if at the end of the first year it is found that a student does not possess the necessary qualifications for teaching, the scholarship may be withdrawn. Scholarships are also awarded in connection with the evening classes at the Technical College entitling the holders to one year's free tuition in the classes they are attending. Research scholarships may be awarded on the recommendation of the Lecturers to students who have completed their full course at the Sydney Technical College. The holders are entitled to the use of laboratories and apparatus, the work undertaken being under the supervision of the Lecturer in charge of the Department.

The Bursaries, distinguished as District and High School, Junior and Intermediate Technical, are open only to pupils of State Schools whose parents' incomes are not sufficient to enable their children to gain a higher education. A bursary may not be awarded to any candidate whose parents' income exceeds £300 per annum. In addition to free tuition and a grant for text books, a monetary allowance is made, or free board and residence to bursars who attend the Agricultural School.

The District and High School Bursaries, 72 per annum, are tenable for three years at a High, District, or Superior Public School or (in the case of boys) at the Sydney Grammar School or the Hurlstone Agricultural Continuation School. The Junior Technical Bursaries, numbering 20 per annum, are tenable for two years at a Technical College or School or Trade School. Eight Intermediate Technical Bursaries, tenable for three years at the day classes of the Sydney Technical College, are awarded in each year to boys who have attended a High School or the higher primary classes of a District or Superior Public School for two years.

Twelve Bursaries, six for boys and six for girls, tenable for three years at the Sydney University, are awarded annually for competition amongst pupils attending the High Schools, Public Schools, or, as State bursars, the Sydney Grammar School. The holders may enter the Arts or Science course without payment of fees, and are granted £5 per annum for text books, and a monetary allowance amounting to £20 to those who need not board away from home, and £50 if required to do so.

There are also a large number of scholarships and bursaries open to pupils of private schools, and tenable at the secondary schools controlled by the religious bodies or private persons.

THE UNIVERSITY.

An Act incorporating the University of Sydney was passed and received the Royal assent on the 1st October, 1850.

An endowment of £5,000 per annum was given from the public revenue for "defraying the stipends of teachers in literature, science, and art," and for purposes of administration, but no provision was made for teaching in any other branch of learning. Authority was given to examine and to grant degrees in law and medicine as well as in arts. The University was to be strictly undenominational, and the Act expressly prohibited any religious test for admission to any of its privileges.

The first Senate commenced its labours at the close of the year 1850, and soon established three chairs in Classics, Mathematics, and Chemistry and Experimental Physics, sending to England for professors to fill them. On the 11th October, 1852, the University was opened, and twenty-four matriculated students were admitted to membership.

In 1858 a Royal charter was granted, which declares that "the degrees of this University in arts, law, and medicine shall be recognised as academical distinctions of merit, and be entitled to rank, precedence, and consideration in the United Kingdom as fully as if the said degrees had been granted in any university of the United Kingdom."

Since the passing of the original Act various amendments have been made. In 1884 the Senate's powers as regards teaching and degrees were extended so as to provide instruction and to grant degrees or certificates in all branches of knowledge, with the exception of Theology or Divinity, subject to a proviso that no student should be compelled to attend lectures or to pass examinations in Ethics, Metaphysics, or Modern History; and the Act extended the benefits and advantages of the University in all respects to women equally with men.

An Act to provide for the establishment of colleges of residence in connection with religious denominations was passed in 1854, for the association of students in the cultivation of secular knowledge. The college tutors provide assistance to students in preparing for the University lectures and examinations. Under this provision three colleges have been established, namely, St. Paul's (Church of England), St. John's (Roman Catholic), and St. Andrew's (Presbyterian). Action is being taken at the present time for the foundation of a Methodist College. A college of residence for women was established in 1892, on a strictly undenominational basis.

The Government of the University is vested in the Senate, which consists of sixteen members elected by the graduates, and six *ex officio* members who are professors of the University.

The State endowment of the University was £5,000 per annum until 1880, when £1,000 was added for assistant lectureships; in 1882 a further sum of £5,000 was granted for the establishment of schools of Medicine and Engineering, and to assist the Faculty of Arts. Further grants were made until in 1893 the Government endowment for general purposes amounted to £13,000, and the special grants to £6,595. In 1907 the endowment was placed upon a statutory footing at £10,000 per annum, the special grants amounting to £3,750. This included a sum of £2,000 per annum as a provision for evening lectures, first granted in 1882. In 1908 £2,500 was granted for the establishment of departments of Veterinary Science and Agriculture, and provision was made for an annual vote of £5,000 for the maintenance of these departments. The Government has also granted £4,000 towards the erection of a Veterinary School.

In 1873 the portion of land previously set apart for the Wesleyan College was resumed by the Government for the erection of the Royal Prince Alfred Hospital, in connection with the establishment of a Medical School at the University. All appointments to the Medical and Surgical Staff of the Hospital are made conjointly by the Senate of the University and the Directors of the Hospital.

Many benefactions have been made to the University for helping and rewarding students. Among the first were gifts of £1,000 each from Mr. Thomas Barker, Sir Daniel Cooper, and Sir Edward Deas-Thomson, represented by lands which have multiplied in value. Many others followed, and about £60,000 has been presented up to the present date, exclusive of prizes which have been exhausted by award, and irrespective of increases in value. In addition, a sum of £30,000 was left by the late Mr. Thomas Fisher for a library, and £6,000 was given by the late Sir William Macleay for a Curatorship of the Natural History Museum, presented by him to the University, and for which the Government have erected a suitable building. There have also been bequests of property, other than money, to the estimated value of £51,000; and the late Mr. John Henry Challis left his residuary estate to the University, subject to certain annuities. In December, 1890, the trustees of the Challis Estate handed over to the University the major part of the Australian portion of the estate, approximating to £200,000 in investments, together with a cash balance. The balance of £75,000 was transferred to the University in 1907, and under the bequest the Senate have created Chairs in Law, Modern Literature, History, Logic and Mental Philosophy, Anatomy, Engineering, and Biology, and a Lectureship in Military Science, to each of which they have given the testator's name. The Hovell and Challis bequests constituted, until the end of 1894, the only resources of the University for education other than the public endowments. During 1896 Sir Peter Nicol Russell, of London (formerly of Sydney), devoted £50,000 to the purpose of endowing a School of Engineering, and this gift was supplemented by a further grant of £50,000 in 1904.

The teaching staff of the University now consists of 16 professors, 5 assistant professors, and 75 lecturers and demonstrators.

In the Faculty of Arts there are professorships in Latin, Greek, Modern Literature, Modern History, Logic and Mental Philosophy, and Mathematics, with assistant lecturers in Latin, Mathematics, English, French, and German, and a lecturer in Education. Departments of Economics and Commerce, and of Military Science were instituted in 1907.

In the Faculty of Law there are a professor of Law and four lectureships in the following subjects, viz. :—Law of Status, Civil Obligations and Crimes, Law of Procedure, Pleading and Evidence, Law of Property, and Equity, Probate, and Bankruptcy and Company Law.

The Faculty of Medicine has Professors in Physiology, Anatomy, and Pathology, with demonstrators in each of these subjects. There are also lectureships in Medicine, Surgery, Clinical Medicine, Clinical Surgery, Midwifery, Diseases of Women, Materia Medica and Therapeutics, Medical Jurisprudence and Public Health, Ophthalmic Medicine and Surgery, and Psychological Medicine. There are also 6 honorary lecturers in special subjects, 5 honorary demonstrators in Anatomy, as well as a medical tutor and surgical tutor.

The Faculty of Science has professorships in Chemistry, Physics, Geology and Physical Geography, and Biology, with lecturers in Paleontology, Embryology, and Physiography, and demonstratorships in all the professorial subjects. The Faculty of Science also includes the Department of Engineering, in which there are a Professor of Civil Engineering, separate lectureships in Mechanical Engineering, Electrical Engineering, Surveying, Mining,

Metallurgy, and Architecture, with demonstratorships in the Engineering subjects, as well as a demonstrator in Metallurgy, who acts as assistant to the Professor in Chemistry.

The Professorships in Veterinary Science and Agricultural Science have been instituted recently, and arrangements are being made to provide for a Diploma in Education for graduates in Arts and Science who have undergone a course of practical training for the teaching profession.

From the foundation of the University to the end of 1909, 3,302 degrees of various kinds have been conferred, 237, the number bestowed in 1909, being the highest in any year. Of the total number, male graduates numbered 2,847, and females 455. The degrees conferred for 1909, and the total degrees since the foundation of the University are shown in the following statement:—

	1909.	Total.		1909.	Total.
M.A. ...	13	368	B.Sc. ...	10	95
B.A. ...	68	1,510	M.E. ...	...	6
LL.D. ...	...	25	B.E. ...	20	202
LL.B. ...	11	166	L.D.S. ...	...	30
M.D. ...	...	51	B.D.S. ...	6	35
M.B. ...	78	492			
Ch.M. ...	31	318	Total...	237	3,302
D.Sc. ...	...	4			

Under arrangement made with the British Board of Education, a limited number of graduates of the Sydney University are permitted to share in the benefits of the agreements made between the British Government and the Prussian and French Governments for placing assistants in the schools of the respective countries. One graduate was appointed temporary assistant in a French school for the year 1909-10.

The subjects of examination for matriculation are—

Division A: English, Latin, Mathematics, and Greek, or French or German at a lower standard.

Division B: Latin, English, Mathematics, Greek, French, German, Mechanics and Modern History at a higher standard, and one of the following subjects:—Botany, Chemistry, Geology, Physics, Physiology, Zoology.

Candidates are required to pass Division A, and in such subjects of Division B as are prescribed for admission to the respective faculties or departments of study.

The following statement shows the number of students attending lectures at the University at intervals since 1876:—

Year.	Matriculated.	Unmatriculated.	Total.
1876	34	24	58
1886	122	81	203
1896	438	16	454
1906	836	218	1,054
1907	871	307	1,178
1908	875	449	1,324
1909	924	350	1,274

The following table shows the distribution of students in attendance at lectures during 1909 :—

Department.	Matriculated.		Unmatriculated.		Total.
	Males.	Females.	Males.	Females.	
Arts—Day	134	81	21	16	252
„ Evening	97	11	31	3	142
Law	62	...	5	...	67
Medicine... ..	375	15	10	...	400
„ Dentistry	23	1	27	...	51
Science	30	11	2	...	43
„ Engineering	81	...	...	...	81
Pharmacy* ... ..	...	...	73	1	74
Military History* ... ..	...	...	66	...	66
Economics and Commerce* ... ..	...	...	94	1	95
Research Students	3	...	...	...	3
Total	805	119	329	21	1,274
	924		350		

* Special subjects ; Matriculation not compulsory.

From these figures it is evident that matriculated students constitute 72·5 per cent. of students in attendance, and women students represent 11 per cent. of the total.

A number of scholarships, exhibitions, and bursaries have been founded, chiefly by private benefactors, as rewards for proficiency and for the purpose of placing the advantages of a University education within the reach of capable students, who otherwise would be excluded through want of financial means.

The scholarships and exhibitions are awarded only when the examinations disclose a satisfactory degree of proficiency, and no candidate may hold more than two scholarships.

Candidates for bursaries are required to show that they do not possess sufficient means to attend the University. The bursaries are supplemented, on the part of the Senate, with exemption from fees except in the case of those available in the professional schools. There are sixteen at the disposal of the Senate, of which fourteen are available only in the Faculty of Arts or of Science. In addition, twelve bursaries are granted annually by the Government to pupils of State schools.

The number of students permitted to attend lectures during 1909 without paying fees was 226, including 45 holders of State and University bursaries, and 154 students of the Teachers' Training College. The payments to University bursars amounted to £856 and to scholars, £2,521.

A Rhodes Scholarship, tenable for three years at the University of Oxford, is awarded annually to students of Sydney University, and a commission in the British Army is also offered every year.

The cost of graduation in each Department is shown in the following statement :—

Faculties and Departments.	Total cost of Graduation.	Term of Study.
	£ s. d.	Years.
Arts (B.A.)	55 8 0	3
Law (LL.B.)	75 0 0	5
Medicine (M.B.)	163 4 0	5
Dentistry (B.D.S.)... ..	148 10 0	4
Science (B.Sc.)	71 3 0	3
Civil Engineering (B.E.)	125 8 0	3
Mining and Metallurgy Engineering (B.E.)	125 8 0	4
Mechanical and Electrical Engineering (B.E.)... ..	115 19 0	4
Pharmacy	15 15 0	1
Military History and Science	15 12 0	3
Economics and Commerce	19 18 0	3

The total cost of graduation shown above includes lecture and laboratory fees, matriculation and degree or diploma fees, also, in the medicine and dentistry course, hospital fees.

Below is given a statement showing the amount derived by the University from each of the principal sources of revenue, and the total expenditure during the last five years :—

Year.	Receipts.					Expenditure.
	Government Aid.	University Fees.	Private Foundations.	Other Sources.	Total.	
	£	£	£	£	£	£
1905	13,250	19,832	26,158	50	59,290	51,483
1906	13,500	20,873	28,412	38	62,823	52,760
1907	13,750	19,111	42,672	50	75,583	52,435
1908	21,584	21,494	22,855	88	66,021	61,137
1909	15,845	22,459	30,630	62	68,996	69,494

The University buildings consist of the main building, containing the great hall, lecture rooms, and offices, all built of Pyrmont sandstone; the Medical School, which is in the same style, and is now being enlarged; the Fisher Library, adjacent to the main building, and designed to form part of the main quadrangle; this is the latest addition to the buildings, and is of modern design, with a bookstack of steel and glass for 200,000 volumes, and with ample accommodation for students. Separate buildings are distributed over the grounds for the Departments of Chemistry, Physics, Geology, and Biology, and the Macleay Museum. The Peter Nicol Russell School of Engineering has also a separate building, recently completed at a cost of £25,000 by the State.

EXTENSION LECTURES.

University Extension Lectures were inaugurated in 1886, and have been conducted since that date under the direction of a Board of eighteen members appointed annually, and including at least four members of the Senate and four of the teaching staff. Courses of Lectures are given in various centres upon topics of literary, historical, and scientific interest. At the conclusion of a course, which consists of six or ten lectures, an examination may be held and a certificate awarded to successful candidates. During 1909 lectures were delivered in ten Sydney and suburban centres, and in twelve

other centres embracing country districts in New South Wales. The Board also confers the benefits of its lectures on other States, and in 1909 an extensive series of lectures under its auspices was delivered in Western Australian towns. Assistance was also given to Queensland in the movement to establish a University, and a special course of lectures delivered. Queensland has hitherto been dependent on Sydney for University education, and Queensland candidates have always been well represented in the public examinations of Sydney University, the Queensland lectures having formed a prominent part of the work of the Extension Board.

PUBLIC EXAMINATIONS.

The University conducts Public Examinations, Junior and Senior, which are open to all candidates on payment of the necessary fee, and are held annually at various centres in New South Wales and Queensland. These examinations provide an excellent test of the soundness of instruction imparted in the schools of the State, from the pupils of which the examinees are largely drawn.

The following table shows the number of successful candidates at intervals since the year 1876:—

Year.	Senior Passes.			Junior Passes.		
	Males.	Females.	Total.	Males.	Females.	Total.
1876	...	...	40	...	...	312
1886	...	...	83	...	...	548
1896	59	49	108	633	332	965
1906	92	34	126	582	263	845
1907	104	45	149	531	273	804
1908	101	50	151	582	332	914
1909	90	55	145	604	311	915

The attainment of a certain standard at the above examinations is regarded as the equivalent of matriculation, but in addition special matriculation examinations have been held in March of each year. This practice is being discouraged, and matriculation examinations are now held concurrently with the public examinations.

Examinations for the admission of articled clerks in Law have been conducted by the University since 1877 under a rule of the Supreme Court, and there were twenty-five passes in 1909. Various other public examinations are conducted by different bodies, for which the schools prepare their pupils, notably the Chamber of Commerce examinations in commercial education, established in 1900; the Institute of Bankers for admission to the Bank service; the Public Service examination for admission to the Service, instituted in 1897. The extension of the demand for boys with some commercial, as apart from academic or technical, knowledge, which led to the organisation of the Chamber of Commerce examinations, has also led the University to issue Commercial Junior certificates and to institute the Department of Economics and Commerce, for the furtherance and co-ordination of commercial education.

REFORMATORIES AND INDUSTRIAL SCHOOLS.

Apart from the purely educational establishments, the State maintains several reformatories and industrial schools. For girls there is the Industrial School at Parramatta; and for boys, the Carpenterian Reformatory and the nautical schoolship "Sobraon." These institutions are under the control of the Minister of Public Instruction. At the Parramatta Industrial School the

enrolment of girls during the last quarter of 1909 was 95, of whom 3 were under and 92 over 14 years of age, and the cost of maintaining the school in 1909 was £3,151.

The Carpenterian Reformatory, opened in 1895, receives boys who have been convicted of offences, and whom it is desirable to keep apart from persons with whom they would be associated if sent to gaol. Under strict discipline, the boys are taught farming, wood-turning, carpentry, cabinet making, French polishing, boot making, tailoring, tinsmithing, painting, glazing, jam making, and fruit preserving. During the last quarter of 1909 there were 72 lads in the Reformatory, of whom 14 were under 14 years of age. The net annual State expenditure on this institution amounts to £2,333. Since its inception the institution has dealt with 834 boys, and of the 762 discharges it is estimated that fully 97 per cent. have turned out industrious citizens.

On the "Sobraon" there were 412 boys during the year 1909. Of this number 357 received instruction, and 55 were exempt from school attendance, being employed on the tender "Dart" or engaged in carpentry. The admissions during the year numbered 113, and the discharges 135. On the 31st December, 1909, there were 279 boys remaining on board. During forty-two years the institution has dealt with over 5,800 boys, and the records show that about 98 per cent. of these have developed into good citizens. The net cost to the State during 1909 was £13,288, the cost per head of enrolment being £32 5s. The steam and sailing schooner "Dart" is attached to the "Sobraon," and on board this vessel the boys are taught seamanship, and are afforded opportunities of putting their knowledge into practice by an occasional trip to sea. So successful has the experiment proved that a number of boys have been shipped as sailors on deep-sea vessels. The great advantage which the "Sobraon" system possesses over the ordinary penal system of the State lies in the fact that the boys who have been subjected to a course of training on board the vessel are not turned adrift on society at the expiration of their term, but are apprenticed to persons of well-known character, and thus have every opportunity of becoming respectable members of the community. The success which has attended this institution is an undoubted argument for its existence.

COST OF EDUCATION.

The actual expenditure by the Government on all branches of Education, including grants and subsidies to Educational and Scientific institutions, cost of industrial schools and reformatories, and expenditure on premises, equipment, and maintenance of public schools, has been steadily increasing, as the figures for the past six years will show. Relatively to the mean population the increase has been almost imperceptible until 1907, but for the last two years there has been a distinct advance in all items of educational expenditure, particularly in the amount spent on schools and other buildings.

The following is a table of the expenditure for all purposes during the last six years:—

Year ended 30th June.	Total Expenditure.	Cost per head of mean population.
	£	s. d.
1904	971,148	13 5
1905	946,298	12 10
1906	981,577	13 0
1907	1,045,382	13 5
1908	1,191,617	15 0
1909	1,314,402	16 2

The results which the State will receive from this expenditure are inestimable, and will be apparent in the lives of those who have enjoyed the advantages provided thereby.

EXPENDITURE ON STATE SCHOOLS.

The annual expenditure on State Education in a young country is necessarily burdened by disbursements, which are really capital expenditure, in varying amounts for each calendar year according to requirements, and for which the State holds enduring assets. It is, therefore, necessary to distinguish this capital expenditure from ordinary disbursements in estimating the relative annual cost of education. The capital expenditure of recent years covering cost of buildings, sites, additions, etc., has been as follows :—

						£
1895	...	...	...	...	...	102,904
1900	...	...	...	...	...	107,942
1905	...	...	...	...	...	51,175
1906	...	...	...	...	...	82,773
1907	...	...	...	...	...	93,686
1908	...	...	...	...	...	140,992
1909	...	...	...	...	...	149,769

The manner in which the amounts vary from year to year indicates the fluctuations in the requirements in this direction.

ANNUAL COST—STATE SCHOOLS.

In the following table ordinary annual expenditure only is shown, and is related to the average attendance of children and to the mean population of the State :—

Year.	Rates.	Maintenance and Salaries.	Administration and Training.	Total.	Gross Annual Expenditure.	
					Per child in average attendance.	Per capita of mean population.
	£	£	£	£	£ s. d.	s. d.
1895	1,493	551,342	46,088	598,923	4 5 7	9 6
1900	6,337	614,843	51,094	672,274	4 7 5	9 11
1905	7,645	729,464	51,692	788,801	5 3 9	10 8
1906	7,202	737,041	54,565	798,808	5 5 7	10 7
1907	9,662	758,130	60,817	828,609	5 9 10	10 8
1908	5,723	873,748	64,557	944,028	6 1 0	11 11
1909	15,930	877,916	66,324	960,170	5 18 9	11 9

From the 8th October, 1906, fees were received in High Schools only, instruction in other schools being free. The amount of the fees received during 1909 was £3,706, a negligible quantity in comparison with the large gross expenditure.

The figures given above represent the annual normal expenditure. To estimate the total cost of education would necessitate the investigation of the present capital value of buildings and equipment, the rate of depreciation to be allowed, and generally more detailed information than is now available. Up to the present time the Department of Public Instruction has not supplied particulars which will admit of a comprehensive review of the entire burden of the State's responsibilities relating to education.

The intensity of annual cost in each of the groups quoted above is indicated in the following table, in which the relative cost per school is shown for the same years :—

Year.	No. of Schools.	Per School.		
		Rates.	Maintenance and Salaries.	Administration and Training.
		£ s. d.	£ s. d.	£ s. d.
1895	2,563	0 11 8	215 2 2	17 19 7
1900	2,745	2 6 2	223 19 10	18 12 2
1905	2,901	2 12 8	251 9 0	17 16 5
1906	2,885	2 9 10	255 9 5	18 19 2
1907	2,918	3 6 3	259 16 2	20 16 10
1908	3,002	1 18 1	291 1 0	21 10 0
1909	3,075	5 3 7	285 10 0	21 11 5

Of the 3,075 schools shown above, 60 per cent. were small schools averaging less than 30 in the daily attendance. Owing to the migration of families for various reasons, it is occasionally found necessary to close some of these institutions, and in such cases the regulation permitting the granting of subsidies in isolated districts has been utilised. At the close of 1909 there were 344 subsidised schools in operation, with an enrolment of 3,179 children.

SCHOOL SAVINGS BANKS.

A system of school savings banks was initiated during 1887 in connection with the public schools of the State. At the close of 1909 there were 696 banks in operation, as compared with 688 at the close of 1908. The deposits for the year amounted to £24,208, and the sum withdrawn was £24,811. The total amount to the credit of the school banks on the 31st December, 1909, was £9,908, as compared with £10,512 at the end of 1908. Since 1887 the total sum of £349,578 has been deposited and £339,670 withdrawn. Of the latter sum an amount of £84,641 was placed to the credit of children's accounts in the Government Savings Bank. The object of these banks is to inculcate practically the principles of thrift while the minds of the children are susceptible of deep impressions.

OBSERVATORY AND SCIENTIFIC SOCIETIES.

The Sydney Observatory is another of the institutions of a scientific and educational character which the State liberally supports. Situated in a commanding position, it is admirably fitted by natural conditions for the purpose it is intended to serve; but the growth of an immense city, radiating in every direction, has caused such adverse atmospheric conditions that another site will be essential at an early date. The present building was erected in 1856, at the instance of Sir William Denison, then Governor of the Colony, who took a great interest in scientific pursuits.

Meteorological observations, which for many years received special attention as part of the work of the Observatory, are now directed by a special Bureau, under the administration of the Commonwealth Government.

The Observatory is open to the public once a week, and during 1909 the total number of visitors was 1,141.

As far back as the year 1821 a scientific society, under the title of the Philosophical Society of Australasia, was founded in Sydney, and after many vicissitudes of fortune was merged, in 1866, into the Royal Society of New South Wales. The society is now in a flourishing condition, counting amongst its members some of the most eminent men in the State.

Its objects are the advancement of science in Australia, and the encouragement of original research in all subjects of scientific, artistic, and philosophic interest, which may further the development of the resources of Australia, draw attention to its productions, or illustrate its natural history.

The study of the botany and natural history of Australia has attracted many enthusiastic students, and the Linnæan Society of New South Wales was established for the special purpose of furthering the advancement of these particular sciences. The society possesses a commodious building at Elizabeth Bay, one of the most beautiful spots near the city, attached to which are a library and museum. It was liberally endowed by Sir William Macleay, who, not content with being an indefatigable worker in the field of science, was also one of its most munificent supporters. The society's proceedings are published at regular intervals, and contain many valuable papers with excellent illustrations of natural history.

Among the other scientific societies are the New South Wales Zoological Society, inaugurated in 1879, also branches of the British Medical Association, founded in 1881; of the British Astronomical Association, whose first meeting was held in 1895; and the Anthropological Society of Australasia. The Australasian Association for the Advancement of Science, and the Royal Geographical Society of Australia, also have branches in New South Wales.

PUBLIC LIBRARIES.

The Public Library of New South Wales was established, under the designation of the Free Public Library, on the 1st October, 1869, when the building and books of the Australian Subscription Library, founded in 1826, were purchased by the Government. The books thus acquired numbered about 16,000 and formed the nucleus of the present library. The number of volumes on the 31st December, 1908, had been increased to 240,743, including those in the lending branch or lent to libraries or private students in the country. During 1909 the number was decreased by the transference to the Sydney Municipal Council of 29,808 books in the lending branch, and at the end of the year there were 218,473 volumes. The lending branch was established in 1877 to meet a growing public want, and subject to certain simple regulations any person, on the recommendation of a clergyman, magistrate, or other responsible person, is allowed the loan of any of the works, free of charge.

In December, 1908, the books, fittings, &c., of the lending branch were vested by Act of Parliament in the Municipal Council of Sydney, but by agreement the trustees of the Public Library continued the management until October, 1909, when the Council assumed control.

The scope of the Public Library has been extended by the introduction of a system by which country libraries and Mechanics' Institutes may obtain on loan select works, which would be too expensive for them to purchase on account of the slender funds at their disposal. Under this system boxes containing from 60 to 100 books, are forwarded to the country libraries on application, to be returned or exchanged within four months. This system was initiated in August, 1883, and has been carried on successfully ever since. In the course of the year 1909, 13,207 volumes were forwarded to 127 institutions, some of which were at considerable distances from the metropolis. Further, 1,380 volumes were sent to 16 different light-houses, 3,635 volumes were lent to 62 different Public School Teachers' Associations, and 42 volumes were sent to individual students in the country during the year. Students are expected to pay return freights on parcels, but all the other charges in connection with the despatch and return of the books are defrayed by the State.

The reference department of the Public Library contains 208,682 volumes, and there are also 9,791 volumes for country libraries under the lending system. The books and pamphlets in the institution are classified as under :—

Synopsis of Classification.	Reference Department.	For Country Libraries.	Total.
Natural Philosophy, Science, and the Arts	15,633	935	16,568
History, Chronology, Antiquities, and Mythology	8,357	1,269	9,626
Biography and Correspondence	6,310	1,276	7,586
Geography, Topography, Voyages and Travels, etc... ..	7,741	1,084	8,825
Periodical and Serial Literature... ..	34,749	363	35,112
Jurisprudence, Political Economy, Social Science, etc.	7,154	357	7,511
Theology, Moral and Mental Philosophy, and Educa- tion	7,040	1,056	8,096
Poetry and the Drama	3,750	202	3,952
General Literature, Philology, and Collected Works..	7,398	3,230	10,628
Works of Reference	4,626	19	4,645
Duplicates	5,155	.....	5,155
"Mitchell" Library	60,887	.....	60,887
Classified according to the Dewey System—			
1. General Works	4,184	.....	4,184
2. Philosophy	783	.....	783
3. Religion	1,419	.....	1,419
4. Sociology	9,856	.....	9,856
5. Philology	351	.....	351
6. Natural Science	3,664	.....	3,664
7. Useful Arts	6,112	.....	6,112
8. Fine Arts	2,284	.....	2,284
9. Literature	5,060	.....	5,060
10. History (including Biography and Travel)	6,169	.....	6,169
Total... ..	208,682	9,791	218,473

During 1886 and 1887 considerable extensions were made to the premises of the Public Library, which had become much too small as to sitting and shelving accommodation, and in 1890, a large portion, which had been rebuilt, was opened to the public. The total cost to the Government of the buildings has amounted to £28,376. In 1899 the Library was incorporated, and received a statutory endowment of £2,000 per annum for the purchase of books. The number of visits paid to the Reference Library during 1909 was 191,128.

In 1899 Mr. D. S. Mitchell donated to the Trustees of the Public Library a collection of 10,024 well-chosen volumes, together with 50 valuable pictures, and at his death in 1907 bequeathed to the State the whole of his unique collection, consisting principally of books and manuscripts relating to Australasia, and comprising over 60,000 volumes, and 300 framed paintings of local historic interest, valued at £100,000. This collection will be kept separate, and be known as the "Mitchell Library." A building, erected to accommodate it at the cost of £35,600, was opened in 1910. The use of the Mitchell Library is restricted to the purposes of research and reference.

The cost of the Public Library to the State during 1909 was £12,504, the details of expenditure being as follows :—

	£
Books, Periodicals, and Binding	1,705
Salaries	5,876
Miscellaneous—Cleaning, Freight, Repairs, &c.	4,923
Total... ..	£12,504

The administrative work in connection with the Board for International Exchanges is performed by the Library staff.

The Sydney Municipal Library, formed by the transfer of the lending branch of the Public Library to the City Council, contains 26,313 volumes, classified as follows :—

Synopsis of Classification.	Number of Volumes.	Average Daily Issue.
Natural Philosophy, Science, and the Arts	5,203	37·6
History, Chronology, Antiquities, and Mythology	3,613	16·8
Biography and Correspondence	4,378	14·8
Geography, Topography, Voyages and Travels, etc.	3,882	11·2
Jurisprudence	1,406	6·9
Moral and Mental Philosophy	1,821	8·9
Poetry and Drama	1,032	9·3
Prose Fiction	3,104	76·7
Miscellaneous—General Literature and Philology	1,874	9·3
Total	26,313	191·5

The figures showing the average number of volumes in each class issued daily relate to the months of November and December only. As usual the works of fiction were most extensively read. The attendance at the newspaper-room, attached to the library, was 273,655 persons for the year 1909.

Small local libraries are established in the principal population centres throughout the State. These may be classed broadly under two heads—Schools of Arts, receiving an annual subvention in proportion to the amount of monetary support accorded by the public; and Free Libraries, established in connection with municipalities. Those of the former class preponderate. Under the provisions of the Local Government Act of 1906, any shire or municipality may establish a public library, art gallery, or museum. At the end of 1909 there were, exclusive of the Sydney Municipal Library, 40 municipal libraries in the State, with 36,759 volumes.

The principal public libraries, with the number of volumes in each at the end of 1909, is shown in the following statement :—

Name of Library.	Total number of volumes.
Public Library of New South Wales	218,473
Sydney University (Fisher Library)	90,000
Australian Museum	15,759
Botanical Museum	5,000
Sydney Technical College and Branches	7,032
Sydney Municipal Library	26,313
Other Municipal Libraries... ..	36,759
Schools of Arts, Mechanics' Institutes, &c.	564,957
State Schools	131,500
Total	1,095,793

In addition to the above, there are at the Parliamentary Library over 52,000 books, and large numbers of volumes are at the libraries of the Law Courts and Governments Offices; also a large number of private circulating libraries, which are extensively used.

NATIONAL ART GALLERY.

The National Art Gallery contains an excellent collection of paintings and statuary, including some of the most famous works of the best modern artists, also valuable gifts from private persons. The collection of water

colours is considered to be the finest out of England, and it is estimated that the present value of the contents of the Gallery is at least £146,000. During 1909 the Gallery was visited by 273,091 persons, the average Sunday attendance being 1,918, and on week-days 557. Art students, under certain regulations, may copy any of the various works. In 1894 a system of loan exchanges between Sydney, Melbourne, and Adelaide was introduced, by which pictures are sent from Sydney to Melbourne and Adelaide and reciprocally, with results most beneficial to the interests of art. Another excellent scheme was initiated in July, 1895, by which collections of pictures are sent to the principal country towns for temporary exhibition. At the close of 1909, the total expenditure on the National Art Gallery, inclusive of the building, amounted to £254,108, of which £102,835 had been expended on works of art. The disbursements during 1909 were:—

	£
For works of art	130
For maintenance, including freight, frames, repairs, and insurance	796
For salaries	2,097
	<hr/>
Total cost to the State	£3,023

MUSEUMS.

The Australian Museum, the oldest institution of its kind in Australia, contains a very fine collection of specimens of the principal objects of natural history. There is also an unparalleled collection of zoological and ethnological specimens of distinctly Australian character, for which special accommodation was provided in the new wing opened in 1910. The popularity of the institution is evidenced by the increasing number of visitors, of whom there were 214,068 during 1909, the daily average being 1,000 on Sundays, and 623 on other days, except Mondays when students only are admitted. The expenses in connection with the institution amounted to £11,310, including £2,845 expended on account of the purchase of new cases. A fine library is attached to the institution, containing many valuable publications, the total volumes numbering 15,759. The specimens acquired during 1909 numbered 8,956. Lectures and gallery demonstrations for the benefit of school teachers are given in the Museum by members of the staff.

The Technological Museum was instituted at the close of 1879 on the initiative of the Trustees of the Australian Museum; but the whole original collection of some 9,000 specimens was totally lost in 1882 by the Garden Palace fire. Efforts were at once made to replace the lost collection, and in December, 1883, the museum was again opened to the public, and now contains a valuable series of specimens illustrative of various stages of many manufactures, and an excellent collection of natural products. The popularity of the institution may be gathered from the fact that 99,668 persons visited it during 1909. There are branch Technological Museums at Goulburn, Bathurst, West Maitland, Newcastle, and Albury, which were visited by 121,666 persons during 1909. The sum of £5,116 was expended on various institutions of this nature during the year.

Connected with the Department of Mines and Agriculture is a Mining and Geological Museum, which is open to the public on week-days. Amongst other important work, the institution prepares collections of minerals to be used as teaching aids in the public schools. Connected with this institution is an Agricultural and Forestry collection containing 6,456 specimens.

The "Nicholson" Museum of Antiquities, the "Macleay" Museum of Natural History, the Museum of Normal and Morbid Anatomy, attached to the Sydney University, and the National Herbarium and Botanical Museum at the Botanic Gardens, are accessible to the public free of charge.

RELIGION.

THERE is absolute liberty of conscience in New South Wales with respect to religious belief, but during the early days of the State's history such was not the case. New South Wales was originally a Crown Colony, and the Church establishment as it existed in England was naturally transplanted to these shores. Ecclesiastical monopoly, however, continued only for a short time, and the countenance and the support of the State were extended, during the governorship of Sir Richard Bourke, to the principal religious bodies—the Anglicans, Roman Catholics, Presbyterians, and Wesleyan Methodists. To the clergy of each of these denominations the Government granted subventions which were continued after the introduction of Responsible Government.

In 1862, however, an Act was passed limiting future payments to the clergy then actually in receipt of State aid. In the year following the passing of this Act, the claims on the Government amounted to £32,372, thus distributed :—

Church of England	... £17,967	Presbyterian	... .. £2,873
Roman Catholic	... .. 8,748	Wesleyan Methodist	... .. 2,784

Year by year the sum payable has been decreasing, owing chiefly to the deaths of clergymen in receipt of State aid, so that during the year ended June, 1910, the payment by the State was £1,002, distributed as follows :—

Church of England	... .. £455	Presbyterian	... .. £97
Roman Catholic	... .. 450	Wesleyan Methodist	... .. Nil.

The payments to the clergy of the several denominations are given for various periods since 1863. It will be observed that in some years the amounts paid were less than in succeeding years. This anomaly is due to the temporary stoppage of the stipends of clergymen who were absent from the State :—

Year.	Church of England.	Roman Catholic Church.	Presbyterian.	Wesleyan Methodist.	Total—All Denominations.
	£	£	£	£	£
1863	17,967	8,748	2,873	2,784	32,372
1891	5,347	2,570	702	875	9,494
1901-2	2,116	1,000	475	438	4,029
1902-3	1,552	896	231	307	3,036
1903-4	1,431	603	300	300	2,634
1904-5	1,431	575	300	300	2,606
1905-6	1,189	650	300	177	2,316
1906-7	1,036	575	193	150	1,954
1907-8	1,031	450	150	12	1,643
1908-9	864	450	150	11	1,475
1909-10	455	450	97	...	1,002

The number of ministers of religion now entitled to State aid has decreased to three—2 Church of England, and 1 Roman Catholic.

At the Census of 1901 the number of adherents to each of the denominations, with the clergy registered for the celebration of marriages, was as given below :—

Denomination.	Clergy.	Adherents.	Proportion of total population in each Denomination.
			per cent.
Church of England	363	623,131	46·58
Roman Catholic	299	347,286	25·96
Methodist	200	137,638	10·29
Presbyterian	182	132,617	9·91
Congregational	51	24,834	1·86
Baptist	37	16,618	1·24
Lutheran	5	7,387	·55
Salvation Army	10	9,585	·72
Christian, Other	27	13,635	1·01
Non-Christian... ..	5	15,252	1·15
No religion ... ..	.....	9,829	·73
Unspecified ... ..	.....	17,034	.....
Total... ..	1,179	1,354,846	100

Of the 17,034 persons whose religion is unspecified, 13,068 objected to state their religious belief. Taking the whole population, there were 1,149 persons on an average to each clergyman.

Attempts have been made at times between the Census periods to obtain statistics from the various religious bodies, but have not been attended with success, as the returns of many denominations are incomplete, and of others no returns are made. But assuming that the adherents of each denomination are in the same proportion to the total population, as at the Census of 1901, the following table shows the probable strength of each denomination, exclusive of aboriginals :—

Denomination.	Estimated number of Adherents.
Church of England	754,800
Roman Catholic	420,700
Methodist	166,700
Presbyterian	160,700
Congregational	30,100
Baptist	20,100
Lutheran	9,000
Salvation Army	11,600
Others, indefinite	67,500
Total	1,641,200

The figures showing the attendance at Divine Service on Sundays for each of the principal denominations given hereunder relate to the year 1904. In that year the average number of persons 14 years of age and over attending Divine Service on Sundays was 385,627, but much reliance cannot be placed on the results, as it has been found difficult to secure thoroughly complete returns. It must be remembered, also, that the totals for each denomination include attendants other than actual adherents. This is especially the case as regards the Salvation Army, which showed an attend-

ance of 16,000 persons at Sunday services, while the total members of this religious persuasion at last Census numbered only 9,585.

Denomination.	Estimated number of persons over 14 years of age attending Divine Service on Sundays.	Total number attending Divine Service on Sundays.
Church of England	94,877	116,833
Roman Catholic	104,829	136,077
Methodist	93,655	113,705
Presbyterian	50,316	62,998
Congregational	11,707	14,200
Baptist	8,470	10,183
Salvation Army	16,000	19,350
Other Denominations	5,773	7,465
Total... ..	385,627	480,811

In view of the sparseness of the population in some parts of the country, the church attendance appears fairly satisfactory. In 1881 the Church of England had the largest attendance, but from 1884 the Roman Catholic Church has taken the lead.

The Church of England is the largest religious denomination in the State, whether regarded as to the number of professed adherents, the number of clergy, or the number of buildings used for Divine Service. In the year 1904 there were 791 churches belonging to this denomination, and 893 buildings and dwellings used for public worship, accommodating altogether 143,103 persons. The estimated number of attendants at public worship on Sunday, including children under 14 years of age, was 116,833, and, exclusive of children, 94,877, and in 1910, the number of clergy registered for the celebration of marriages was 460. The Church hierarchy consists of a Metropolitan, the Archbishop of Sydney, and five other Bishops, whose sees are Newcastle, Goulburn, Bathurst, Grafton and Armidale, and Riverina. By an Act passed in 1881 provision was made for the creation of corporate bodies of Trustees, in which property belonging to the Church of England may be vested, and trusts for various dioceses have been formed under the Act. They are entitled to hold, on behalf of the Church, all real and personal property which may be assigned to them by grant, will, or otherwise. In each diocese a Synod, consisting of clerical and lay representatives from each district, presided over by the Bishop, meets annually to make ordinances for the government of the Church. Each diocesan synod elects from its members representatives to sit at the Provincial Synod of New South Wales, which meets every three years, and to the General Synod of Australia, which meets every five years under the presidency of the Archbishop of Sydney.

The Roman Catholic Church is under the direction of the Cardinal Archbishop of Sydney, assisted by a Coadjutor-Archbishop. Under the Archbishop are the Suffragan Bishops of Maitland, Goulburn, Bathurst, Armidale, Wilcannia, and Lismore, the whole State forming an ecclesiastical province. The number of Roman Catholic churches in 1904 was 576; besides these, there were 709 buildings or dwellings used for Divine Service. The accommodation afforded by the churches and buildings provided for 135,063, and the attendance of adherents of 14 years of age and over was 104,829, while the total number of attendants of all ages was 136,077. The returns of the Roman Catholic Church for the year 1909 show that there were 597

Churches, and the number of members was estimated at 361,000. There were 399 clergymen in the State, as well as 2,683 members of religious orders. The number of priests licensed to celebrate marriages in 1910 was 339.

The various branches of the Presbyterian Church in the State had, during 1904, 362 churches used for public worship; there were also 705 public buildings or dwellings occasionally used for the same purpose. The accommodation provided in churches and buildings was 58,275 sittings, and the attendance of habitual adherents numbered about 50,316, and, including children, 62,998. For the purposes of this Church, the State is divided into fourteen Presbyteries, consisting of a number of separate charges, to each of which a Minister is appointed. The management of the affairs of the Church is controlled by a General Assembly, which sits annually, and consists of Ministers and Elders from the charges within the different Presbyteries. It is presided over by a Moderator, who is elected by the Presbyteries. By Act of Parliament, the Assembly has power to grant permission to trustees to mortgage Church property, and trustees are authorised to hold property for the Church generally. In July, 1901, a scheme of federal union was adopted by representatives from the various States, and the United Church is called the Presbyterian Church of Australia. The returns supplied by this denomination show that in 1909 there were connected with the Presbyterian Church of Australia 386 churches and 61,563 members. The number of ministers licensed to celebrate marriages in 1910 was 218, of whom 213 were connected with the Presbyterian Church of Australia, and 5 with the Presbyterian Church Synod of Eastern Australia.

On the 1st January, 1902, the Wesleyan Methodist Church, the Primitive Methodist Church, and the United Methodist Free Churches in New South Wales entered into organic union, with a common name, common funds, common laws, and equal rights. The United Church is now known as "The Methodist Church of Australasia."

In this State during 1904 the Methodist body used for public worship 572 churches and 548 other buildings, with sitting accommodation for 95,334 persons. The estimated attendance on Sunday was 93,655, or including children, 113,705. The Church returns for the year 1909 show that there were 630 churches and 593 other buildings used for public worship, and the members numbered 118,496. In 1910 the ministers licensed to celebrate marriages numbered 234.

The Congregational Church in 1904 had 79 churches, as well as 49 buildings or dwellings used for worship; and the sittings provided could accommodate 21,458 persons. The attendance at Divine Service on Sundays was 11,707, or, including children, 14,200. The Congregational Union of New South Wales was incorporated in 1882 by an Act which gives it legal status, and empowers it to hold land and other property. The Union allows every separate church to maintain perfect independence in the administration of its local affairs. The statistics of the Union for the year 1909 state that there were 94 churches or preaching stations. The Congregational ministers licensed to celebrate marriages in 1910 numbered 63.

The various Baptist Churches in the State in 1904 had 59 churches and 69 other buildings devoted to public worship; the Sunday attendance averaged 8,470, and, including children, 10,183 persons. The number of ministers licensed to celebrate marriages in 1910 was 50. The Baptist Union of New South Wales is not incorporated, and cannot legally hold property in trust for the denomination. Annual sessions, with half-yearly assemblies, are held. For several sessions a draft constitution has been under the

consideration of the Union, which, amongst other matters, provides that all properties which now belong or may hereafter accrue to the Union shall be held under a Model Trust Deed, by trustees to be duly appointed; but the matter of incorporation remains in abeyance.

The Salvation Army was established in Australia in 1882. Melbourne was made the chief centre for Australasia under the command of a Commissioner, and Sydney was constituted the headquarters for New South Wales, with a separate chief officer, who is termed Colonel-in-command, all officers and members bearing military titles and designations. There are also treasurers and secretaries to corps. Persons who are in sympathy with the Salvation Army, but who have not subscribed to the "Articles of War"—which combine a confession of faith and a pledge against the use of intoxicating liquors and baneful drugs—form an Auxiliary League and contribute to the funds of the Army. Persons desirous of membership are publicly received on one month's probation, and, after signing the "Articles of War," are attached to the corps nearest their place of residence. The Army had 337 buildings used for service, accommodating 45,000 persons in 1904. The number of persons attending public worship on Sundays was estimated at 16,000, or, including children, 19,350. There were 19 officers licensed to celebrate marriages in 1910.

In addition to those above enumerated, there are other distinct religious bodies, for the most part of Protestant denomination, with ministers licensed by the State to celebrate marriages. The number of clergy ministering to these in 1910 was 62; the churches and other buildings used during 1904 for Divine Service numbered 101: and the attendance was about 6,000 persons.

In 1904 the number of registered ministers belonging to all faiths was 1,313, and the churches numbered 2,612, in addition to which there were 3,238 dwellings or other buildings used for public worship. Accommodation was provided for 526,897 persons. The average attendance on Sundays was about 385,627, or, including children under 14 years of age, 480,811 persons. During 1910 the ministers of all religious denominations registered for the celebration of marriages within the State numbered 1,445.

Nearly all the religious bodies maintain Sunday-schools. The attendance of children at the Sunday-schools of the leading denominations, with the number of schools and teachers during 1904, was:—

Denomination.	No. of Schools.	Teachers.			Scholars on the Roll.			Estimated Average Attendance.
		Males.	Fe-males.	Total.	Males.	Females.	Total.	
Church of England...	761	1,342	3,473	4,815	26,492	34,505	60,997	43,025
Roman Catholic ...	639	229	1,271	1,500	15,879	21,245	37,124	29,505
Methodist ...	489	1,522	3,173	4,695	18,819	22,881	41,700	27,697
Presbyterian ...	320	754	1,461	2,215	9,421	12,059	21,480	15,331
Congregational ...	82	357	530	887	3,675	4,844	8,519	5,987
Baptist ...	57	254	293	547	2,290	2,922	5,212	3,834
Salvation Army ...	124	179	300	479	2,500	3,000	5,500	3,980
Other Denominations ...	61	144	243	387	1,436	2,319	3,755	2,875
Total...	2,533	4,781	10,744	15,525	80,512	103,775	184,287	132,234

The attendance shown in the preceding table amounts to about 45 per cent. of the total children between the ages 7 and 15 years, inclusive, at which ages children generally attend Sunday-schools. The number of Sunday-schools and teachers, and the attendance at various intervals since 1891, were as follows:—

Year.	Number of Schools.	Number of Teachers.	Average attendance of Scholars.		
			Male.	Female.	Total.
1891	1,887	12,169	54,932	68,592	123,524
1897	2,167	13,748	55,960	72,420	128,380
1900	2,286	14,607	55,942	74,595	130,537
1904	2,533	15,525	57,320	74,914	132,234

AGRICULTURE.

The agricultural interest of New South Wales is becoming more extensive and valuable every year. The advantages derivable from a wide range of climate, and from fertile soils of varying characteristics, are such as render possible the cultivation of plants indigenous to cold, temperate, and even tropical regions.

Very few parts of the State are so barren or unwatered as to be thereby unsuitable for cultivation; consequently the only problem which confronts the settler, as a rule, is the choice of type of production to which he should devote his land, or whether he should combine two or more primary industries in developing his advantages.

Certain parts of the mountain regions and portions of the great western plain are unsuitable for profitable working; and, on the whole, it may be said that there are about 8,000 square miles, or approximately one-fortieth of the State, unfit for any kind of cultivation.

The country which is essentially suitable for farming operations, is situated in the Eastern and the Central Land Divisions, the whole area in those divisions, with the exception of portions of the mountain chain, being capable of profitable agricultural development. The rainfall within this region is such as to admit of the successful cultivation of about 50,000,000 acres, under ordinary conditions; and that area might be extended by the application of modern scientific methods relating to intense cultivation.

The rainfall of the Great Western Plains land division is so uncertain that no reliance can be placed on payable results accruing from agricultural pursuits; moreover, from the grazier's aspect as to cost, results, and markets, the pastoral industry presents superior attractions in this part of the State.

AREA UNDER CULTIVATION.

During the year ended 31st March, 1910, an area of 4,063,801 acres, including grassed lands, was under cultivation, of which the area under crops was 3,174,864 acres, and the area sown with grasses was 888,937 acres.

The progress of cultivation at five-year intervals since 1856 is shown in the following table, in which, in common with the subsequent agricultural tables, the year relates to the period from the 1st April in the year mentioned to the 31st March in the following year:—

Year.	Area under—		Acres per inhabitant under—	
	Cultivation, including grasses.	Crops.	Cultivation.	Crops.
	acres.	acres.		
1856	186,034	156,210	0.69	0.58
1860	260,798	209,794	0.75	0.60
1865	378,254	295,092	0.92	0.72
1870	426,976	317,581	0.86	0.64
1875	451,138	323,379	0.76	0.54
1880	710,337	629,180	0.95	0.84
1885	868,093	714,790	0.91	0.75
1890	1,241,419	852,704	1.11	0.76
1895	1,649,462	1,348,600	1.31	1.07
1900	2,868,305	2,445,564	2.10	1.79
1905	3,465,611	2,838,081	2.32	1.90
1906	3,521,842	2,824,211	2.30	1.84
1907	3,306,217	2,570,137	2.10	1.63
1908	3,521,895	2,713,971	2.19	1.69
1909	4,063,801	3,174,864	2.47	1.93

During the first thirty years covered by the table, exceedingly slow progress was made in agricultural development; even including grass lands, the average cultivation per inhabitant in 1890 was only about one acre, and the total area under crop did not reach a million acres till 1892. During the next six years expansion was much more rapid, and the recorded area increased to 2,000,000 acres. Since 1898 the rate of growth has been much slower, until the year 1909, when the area amounted to 3,174,864 acres, an advance of 460,893 acres, or 17 per cent., on the previous year. The recent increase is due mainly to the favourable ploughing seasons, the high prices of agricultural produce, and the subdivision of large estates. Comparison of the area actually under crop with the population shows that the area reached 1 acre per inhabitant in 1893. During the next five years the industry had so developed that in 1898 the rate was 2 acres per head; but since that year the cultivation per capita has remained practically stationary. The following statement shows, in decennial periods, the relative increases in population and in area under crop:—

	1870-80.	1880-90.	1890-1900.	1900-09.
Increase per cent. in population ...	50.0	50.0	21.6	20.6
Increase per cent. in area under crop	58.3	35.5	186.8	29.8

During the first ten years quoted above, the crop area increased more rapidly than the population. From 1880 to 1890 these conditions were reversed, and the population increased at a faster rate by 41 per cent. than the crop area; but during the next period, 1890-1900, cultivation increased no less than 187 per cent., or nearly nine times faster than the population. This increase was due mainly to the cultivation of large areas on holdings previously devoted to pastoral purposes. Since 1900 this phenomenal increase has not been maintained, and the decline in rapidity of development has been due partly to the check induced by adverse seasons, but more materially to the increased attention given to dairying; yet in the period 1900-1909 the area cropped increased 45 per cent. faster than population.

The following statement shows the districts in which the greatest advances have been made:—

Division.	Area under Crops.			Index Numbers. (1900=100).	
	1900.	1905.	1909.	1905.	1909.
Coastal—	acres.	acres.	acres.		
North Coast	109,568	109,704	105,726	100	96
Hunter and Manning	111,261	103,511	112,148	93	101
Cumberland	47,152	46,053	43,821	98	93
South Coast	55,209	51,009	56,348	92	102
Total	323,190	310,277	318,043	96	98
Tableland—					
Northern	60,186	68,362	78,844	114	131
Central	217,468	222,715	245,513	102	113
Southern	62,363	55,336	62,651	89	100
Total	340,017	346,413	387,008	102	114
Western Slopes—					
North	157,091	265,217	314,928	169	200
Central	259,588	412,578	511,921	159	197
South	416,465	442,855	574,809	106	138
Total	833,144	1,120,650	1,401,658	135	168
Western Plains—					
North	5,994	10,261	9,656	171	161
Central	165,032	287,437	255,788	174	155
Total	171,026	297,698	265,444	174	155
Riverina	756,855	745,183	787,082	98	104
Western Division	21,332	17,860	15,629	84	73
All Divisions	2,445,564	2,838,081	3,174,864	116	130

It is evident from these figures that, between 1900 and 1909, there has been a general increase throughout the State, with the exception of the county of Cumberland, the North Coast, and Western Division.

The largest aggregate increase has taken place in Central Western Slope, and amounts to 252,333 acres since 1900. Taken as a whole, the Western Slopes show an advance of 568,514 acres. The districts which show the heaviest proportions of the total cultivation are the Riverina, with 24·8 per cent., and the Western Slopes, with an aggregate of 44·1 per cent. in its three divisions. The remaining 31·1 per cent. of the total cultivation is distributed over the Coastal, Tableland, Western Plains, and Western Division, less than 5 per cent. of the area under crop being in the last-named.

The great extension of cultivation since 1893 has been fostered by wheat-growing on large estates formerly devoted almost exclusively to grazing, by the added security against bad seasons afforded by wool and wheat-farming in conjunction, also by the adoption of the system of farming on shares, and, more recently, by the subdivision of large holdings for closer settlement. During the year 1909 the area cultivated on shares was 364,849 acres, of which 230,976 acres were in the Western Slopes Division and 101,069 acres in the Riverina.

In order that the figures relating to cultivation may be fully appreciated, the following table has been prepared, showing the area under crops, in conjunction with the total area, and the area in occupation, in each division during 1909:—

Division.	Total area of Division.	Area under—			Proportion of area under crops to—	
		Occupation in holdings over 1 acre.	Crops.	Sown grasses.	Total area.	Area under occupation.
Coastal—	acres.	acres.	acres.	acres.	per cent.	per cent.
North Coast	5,409,370	4,025,096	105,726	596,568	2·0	2·6
Hunter and Manning	10,390,920	5,990,284	112,148	68,983	1·1	1·9
Cumberland	1,070,989	546,387	43,821	2,724	4·1	8·0
South Coast	5,484,122	2,483,351	56,348	174,912	1·0	2·3
	22,355,401	13,045,118	318,043	843,187	1·4	2·4
Tableland—						
Northern	8,928,487	7,408,270	78,844	13,270	0·9	1·1
Central... ..	8,989,259	6,269,976	245,513	7,045	2·7	3·9
Southern	7,913,500	6,571,206	62,651	3,333	0·8	1·0
	25,831,246	20,249,452	387,008	23,648	1·5	1·9
Western Slopes—						
North	9,813,555	8,644,785	314,928	4,329	3·3	3·6
Central... ..	6,252,567	5,012,820	511,921	977	8·2	10·2
South	8,185,759	7,078,232	574,809	8,515	7·0	8·1
	24,251,881	20,735,837	1,401,658	13,821	5·8	6·8
Western Plains—						
North	10,030,901	7,920,636	9,656	22	0·1	0·1
Central... ..	16,029,880	14,783,253	255,788	1,093	1·6	1·7
	26,060,781	22,703,889	265,444	1,115	1·0	1·2
Riverina	19,767,073	18,515,001	787,082	7,063	4·0	4·3
Western Division	80,368,498	76,788,778	15,629	103	...	...
All Divisions	198,634,880	172,038,075	3,174,864	888,937	1·6	1·8

Only about 1·6 per cent. of the total area of New South Wales is actually devoted to the growth of agricultural produce; and if the small extent of land upon which grasses have been sown for dairy-farming purposes be added to the area under crops, the proportion reaches only

2 per cent., and represents about 2.5 acres per head of population. The proportion of the cultivated area on alienated holdings is only 5.7 per cent. of the total area of alienated rural lands: Of the area in occupation, 51,256,563 acres are alienated and 120,781,512 acres are leased from the Crown.

Purely agricultural settlements are confined to limited areas in the alluvial lands of the lower valleys of the coastal rivers, and to parts of the southern and central divisions of the tableland; and the cultivation of crops is conducted, to a large extent, conjointly with grazing operations. Tenant occupancy, so general in the United Kingdom, is but little known in New South Wales; of the total area under crop, 2,617,847 acres, or 82.5 per cent., were cultivated by owners, and 557,017 acres, being 17.5 per cent., were cultivated by tenant occupiers, including Crown land lessees.

In addition to the area shown as cultivated and under sown grasses, 58,882,352 acres were ringbarked and partly cleared, and 1,518,261 acres were ready for cultivation on alienated holdings, comprising 1,140,025 acres which had been cropped previously, 257,201 acres of new land cleared and prepared for ploughing, and 121,035 acres of new land ploughed but not sown.

Cultivation is not confined to particular districts, but is carried on in all parts of the State. Some of the best lands for producing cereals are in the hands of the pastoralists, so that farmers have not always been settled on the kind of country best suited for the cultivation of their crops.

The county of Cumberland, which contains the densest population, has a large area cultivated in proportion to area under occupation; but generally the Western Slopes show the largest relative areas under cultivation, followed in order by the Riverina and Central Tableland. In the north-western plain and the Western Division there is practically no cultivation.

The largest proportion of the area under crops is devoted to the cultivation of wheat, which in 1909 accounted for 62.6 per cent. of the total; the area for hay was 19.8 per cent, maize 6.7 per cent., for green food 3.7 per cent., and oats 2.6 per cent. The following statement shows the cultivated area for each of the principal crops, at decennial intervals since 1880, and the relative importance of each crop:—

Crop.	Area.				Proportion per cent.			
	1880.	1890.	1900.	1909.	1880.	1890.	1900.	1909.
	acres.	acres.	acres.	acres.				
Wheat ...	253,137	333,233	1,530,609	1,990,180	40.2	39.1	62.6	62.6
Maize ...	127,196	191,152	206,051	212,797	20.2	22.4	8.4	6.7
Barley ...	8,056	4,937	9,435	15,091	1.3	.6	.4	.5
Oats ...	17,922	14,102	29,383	81,452	2.9	1.6	1.2	2.6
Hay ...	131,153	175,242	466,236	630,664	20.9	20.6	19.1	19.8
Green food ...	21,383	37,473	73,144	118,106	3.4	4.4	3.2	3.7
Potatoes ...	19,095	19,406	29,408	35,725	3.0	2.3	1.2	1.1
Sugar-cane ...	10,971	20,446	22,114	14,937	1.7	2.4	.9	.5
Vines ...	4,800	8,044	8,441	8,330	0.8	.9	.3	.3
Orchards ...	24,565	33,643	46,234	45,717	3.9	3.9	1.9	1.4
Market-gardens									5,098	7,764	10,254	.6	.3	.3
Other crops ...	10,902	9,928	12,948	17,308	1.7	1.2	.5	.5
Total ...	629,180	852,704	2,446,767	3,180,561	100	100	100	100

The figures for the years 1900 and 1909 include the areas double-cropped, viz., 1,203 acres and 5,697 acres respectively.

The area devoted to wheat has always exceeded that given to other crops, and from the year 1880 the proportion, though fluctuating, has remained high; it now stands at more than three-fifths of the whole area under cultivation. During the same time the proportion under maize has decreased from 20 per cent. to 6·7 per cent.; other crops have not varied materially.

VALUE OF PRODUCTION.

The average value of the principal crops, with the proportion of each to the total value, during the last three years, is shown in the following table; the values are based on prices obtained at the farm:—

Crop.	Value.			Proportion per cent.		
	1907.	1908.	1909.	1907.	1908.	1909.
	£	£	£			
Wheat	1,831,180	2,774,000	5,111,990	27·8	33·4	46·9
Maize	905,570	954,700	798,560	13·7	11·5	7·3
Barley	16,160	34,240	46,440	·2	·4	·4
Oats	117,120	111,910	196,660	1·8	1·3	1·8
Hay and straw	1,878,230	2,630,760	2,782,310	28·5	31·6	25·5
Green food	523,620	515,900	422,410	7·9	6·2	3·9
Potatoes	207,590	275,340	400,570	3·2	3·3	3·7
Sugar-cane	252,480	118,480	126,050	3·8	1·4	1·2
Grapes	43,060	50,130	61,450	·7	·6	·6
Wine and brandy	65,220	67,330	64,810	1·0	·8	·6
Oranges and lemons	202,460	129,610	196,820	3·1	1·6	1·8
Orchards	153,110	231,370	233,050	2·3	2·8	2·1
Market-gardens	262,786	298,740	311,580	4·0	3·6	2·8
Other crops	129,354	126,390	155,620	2·0	1·5	1·4
Total	6,587,990	8,318,900	10,908,320	100	100	100

The value of agricultural production in 1909 is the highest on record, being 31 per cent. above the value in the previous year.

It is apparent that the agricultural wealth of New South Wales at present depends mainly on the return from wheat and hay, the value of these crops in 1909 being £7,894,300, or 72·4 per cent. of the total. The return of wheat for the year ended March, 1910, shows a total crop of 28,532,029 bushels, valued at £5,111,990. The value of maize is next in importance, but at a considerably lower level; and the returns from sugar-cane, vines, green food, orchards, and gardens are comparatively of smaller value.

The next statement shows the areas cultivated and the value of the production from agriculture, as well as the average value per acre over five-year periods since 1880:—

Period.	Area Cultivated.	Value of Production.	Value per acre.
	acres.	£	£ s. d.
1880—1885	3,310,427	17,971,776	5 8 7
1885—1890	4,176,834	19,229,839	4 12 1
1890—1895	5,242,770	18,940,086	3 12 3
1895—1900	9,474,285	26,008,897	2 14 11
1900—1905	12,183,823	30,827,138	2 10 7
1905—1909	15,010,201	39,875,810	2 13 2

The highest relative value received in any year was in 1881, when the return was £4,215,268, or £7 4s. 5d. per acre. Decrease in prices, not want of productiveness, caused the decline in value after 1881. The fall in prices, especially of wheat, was very rapid down to 1895; for the next three years there was a very material increase; in 1899 they fell again to the 1895 level; but in 1901 there was a general increase; while towards the close of 1902, and almost up to the close of 1903, the effects of the adverse season were acutely felt, and prices rose to double those of the previous year. At the end of 1903, when heavy crops began to arrive, prices again fell, but they were, nevertheless, higher than the 1901 level. In 1904 prices increased slightly, and were generally higher than at the close of 1903. In 1905 there was a slight falling off as compared with 1904. In 1907 there was a marked increase in the prices, which was fairly maintained during 1908. In 1909 there was a further rise in the price of wheat, and the value of production from agriculture per acre cultivated was the highest since 1893.

WHEAT.

In New South Wales, as in most other countries, the area devoted to wheat far exceeds that of any other cereal; and it is in this form of cultivation that the returns of the State show the greatest expansion. In 1909 the area under wheat for grain was 1,990,180 acres, which was 62·6 per cent. of the whole area under cultivation. The year 1897 may be said to mark the beginning of the present era of wheat-growing in the State, for it was in that year that the production for the first time exceeded the consumption, and left a surplus available for export. The following statement shows the area under wheat in the various districts in 1907 and 1909 in comparison with 1897:—

Division.	Area under Wheat for Grain.			Proportion in each District.		
	1897.	1907.	1909.	1897.	1907.	1909.
	acres.	acres.	acres.	per cent.	per cent.	per cent.
Coastal	16,192	4,940	6,443	1·6	·4	·3
Tableland—						
Northern	20,686	6,362	8,601	2·1	·4	·4
Central	80,318	62,587	97,377	8·1	4·5	4·9
Southern	22,421	4,990	8,606	2·2	·4	·4
	123,425	73,939	114,584	12·4	5·3	5·7
Western Slopes—						
North	59,330	172,907	228,891	6·0	12·4	11·5
Central	102,136	273,025	400,355	10·3	19·6	20·1
South	198,268	274,950	433,607	19·9	19·9	21·8
	359,734	720,882	1,062,853	36·2	51·9	53·4
Western Plains ...	31,589	142,979	196,273	3·2	10·3	9·9
Riverina	460,474	445,537	608,758	46·4	32·0	30·6
Western Division ...	1,936	1,894	1,269	·2	·1	·1
All Divisions ...	993,350	1,390,171	1,990,180	100·0	100·0	100·0

As might be expected, the proportions of land under wheat in each district generally follow the same order as shown in a previous table for the total area under cultivation. Between 1897 and 1909, however, the proportions in each district have changed considerably. The tablelands, for instance, now include only 5·7 per cent. of the whole area, as against 12·4 per cent. in 1897, and the Riverina 30·6 per cent., as against 46·4 per cent., while the Western Slopes have increased from 36·2 per cent. to 53·4 per cent., and the Western Plains from 3·2 per cent. to 9·9 per cent. The largest proportionate increase in area has been in the Western Plains, where it is now more than six times the area of 1897; closely following is the North-western Slope; then Central-western and the South-western Slopes. On the Northern and Southern Tablelands wheat-growing is declining in favour. The great bulk of the wheat is grown on the Western Slopes and in the eastern part of the Riverina, these two districts together contributing 84 per cent. of the whole. On the coast, in the Western Division, and in the Central-western Plain, with the exception of the eastern fringe, the wheat area and the yield are very small. The expansion in the Western Plains is attributable to the increase around Narromine.

The next statement shows the yield in each of the above-named districts in the same years:—

Division.	Yield of Grain.			Average yield per acre.			
	1897.	1907.	1909.	1897-1907	1897.	1907.	1909.
	bushels.	bushels.	bushels.	bushels	bushels	bushels	bushels
Coastal	329,274	23,996	112,051	12·4	20·3	4·9	17·4
Tableland—							
Northern	300,215	90,728	149,702	13·8	14·5	14·3	17·4
Central	933,296	479,404	1,488,449	11·6	11·6	7·7	15·3
Southern	242,556	42,176	115,958	11·9	10·8	8·5	13·5
	1,476,067	612,308	1,754,109	11·9	12·0	8·3	15·3
Western Slopes—							
North	1,208,859	1,070,344	3,539,331	12·1	20·4	6·2	15·5
Central	1,398,967	2,033,284	5,793,112	11·1	13·7	7·4	14·5
South	1,849,521	2,482,004	6,106,554	10·1	9·3	9·0	14·1
	4,457,347	5,585,632	15,438,997	10·9	12·4	7·7	14·5
Western Plains ...	563,066	611,852	2,695,524	8·4	17·8	4·3	13·7
Riverina	3,725,421	2,306,188	8,515,823	8·3	8·1	5·2	14·0
Western Division	8,936	15,908	15,525	5·5	4·6	8·4	12·2
All Divisions...	10,560,111	9,155,884	28,532,029	9·8	10·6	6·6	14·3

The most prolific district usually is the North-western Slope, which shows the highest average yield over the whole period covered by the table, except the Coastal division and the Northern Tableland, where the aggregate yields are not large. The Riverina and South-western Slope, which yield the largest aggregate crops, control the general average for the State.

To further illustrate the relative extent of the acreage under wheat for grain, and the resultant yield for 1907 and 1909, the following table shows the index numbers of those years in relation to 1897, which is taken as a basis, and is equal to 100:—

Division.	Wheat Acreage.		Yield.	
	1907.	1909.	1907.	1909.
Coastal	30·5	39·8	7·3	34·0
Tableland—				
Northern	30·7	41·6	30·2	49·8
Central... ..	77·9	121·2	51·4	159·5
Southern	22·6	38·4	17·3	47·8
Total, Tableland ...	59·9	92·8	41·5	118·8
Western Slopes—				
North	291·4	385·8	88·5	292·8
Central... ..	267·3	392·0	145·3	414·1
South	138·7	218·7	134·2	330·2
Total, Western Slopes	200·4	295·4	125·3	346·4
Western Plains	452·1	621·3	108·8	478·7
Riverina	96·8	132·2	101·9	228·6
Western Division ...	97·8	65·5	178·0	173·7
All Divisions	139·9	200·35	86·7	270·2

A great proportion of the immense area of the State, hitherto devoted exclusively to pastoral pursuits, consists of land which could be profitably utilised for agriculture, much of it being more suitable for the cultivation of wheat than some of the land now under crop; and the returns show that wheat-growing, which was formerly confined to small farmers, is now engaging the attention of a number of the large landholders, who cultivate areas of thousands of acres in extent, and use the most modern and effective implements and machinery for ploughing, sowing, and harvesting.

A considerable portion of the new area which is being brought under wheat in New South Wales is cultivated on the shares system, especially in the southern portion of the State. Under this system, the owner leases land to the agriculturist for a period, for the purpose of wheat-growing only, the farmer possessing the right of running upon the estate the horses necessary for working the farm, and the owner the right of depasturing his stock when the land is not in actual cultivation. It is usual for the owner to provide seed, and the tenant the labour; and up to a specified yield, the parties to the agreement take equal shares of the produce, any excess going to the farmer as a bonus. The system, however, is subject to local arrangements. The number of acres farmed on the shares system during 1909 was 364,849, as compared with 307,750 for the preceding year.

The progress of wheat-growing for many years was slow and irregular. Prior to 1866 the area under crop had remained almost stationary at a little more than 125,000 acres; but in 1866 the acreage increased to 175,000. Eleven years later, the area reaped for grain was practically the same, although during the intervening period it had fluctuated somewhat. Then more land was laid under the cereal, and in 1878 the area increased to 233,252 acres. In 1890, twelve years later, the acreage stood

at 333,233 acres, although, during the interval, it had reached as high as 419,758 acres. From 1892 onwards progress was more regular. A great impetus was given to the industry in 1896, when the area increased to 866,112 acres; in 1900 it had advanced to 1,530,609 acres; and in 1905 to 1,939,447 acres. During the next three years the area decreased, but in 1909 it rose to 1,990,180 acres, the highest yet recorded. The following statement shows the area under wheat for grain at intervals since 1875, together with the total production and average yield per acre:—

Year.	Area under Wheat for Grain.	Yield.		Year.	Area under Wheat for Grain.	Yield.	
		Total.	Average per acre.			Total.	Average per acre.
	acres.	bushels.	bushels.		acres.	bushels.	bushels.
1875	133,609	1,958,640	14.66	1905	1,939,447	20,737,200	10.69
1880	253,137	3,717,355	14.69	1906	1,866,253	21,817,938	11.69
1885	264,867	2,733,133	10.45	1907	1,390,171	9,155,884	6.59
1890	333,233	3,649,216	10.95	1908	1,394,056	15,483,276	11.11
1895	596,684	5,193,312	8.71	1909	1,990,180	28,532,029	14.34
1900	1,530,609	16,173,771	10.56	Average for 30 years ended 1909			10.81
1901	1,392,070	14,808,705	10.64	" 10 years "			1889 13.68
1902	1,279,760	1,585,097	1.24	" " "			1899 9.95
1903	1,561,111	27,334,141	17.51	" " "			1909 10.68
1904	1,775,955	16,464,415	9.27				

Despite the vicissitudes of the climate, it will be seen from the above table that lack of capacity to produce a payable average has not been the cause of the tardiness in development of wheat cultivation. During the last thirty years, the mean annual average yield has been 10.81 bushels to the acre, and the average for 1909 is 33 per cent. above this figure. The highest averages recorded have been 17.51 in 1903, and 17.37 in 1886. The lowest was 1.24 bushels in the disastrous year of 1902. During the whole period there were only seven seasons when the yield fell below 10 bushels per acre, the failures in each case being due to drought conditions.

In spite of the lower averages of certain years, it may be said that from equal qualities of soil a better yield is now obtained than was realised twenty years ago, a result due largely to extension of agricultural education, leading to improved farming, the use of fertilizers, and of more economical harvesting appliances; also to the fact that rust, smut, and other forms of disease in wheat have been less frequent and less general in recent years.

AREA SUITABLE FOR WHEAT-GROWING.

If reference be made to the map at the beginning of this volume, it will be observed that two lines traverse it from north to south. Of these, the line marked by dash and circle denotes the westward limit of that part of the State which has, theoretically, sufficient rainfall—(a) to admit of ploughing operations being carried out at the right time of the year; (b) to cover the growing period of the wheat plant; and (c) to fill the grain during the months of September and October, or, in the case of districts where, notwithstanding light rains in these months, to counteract the deficiency by the increased falls in the earlier or later months.

The line marked by dash and cross represents the westward limit of profitable wheat-growing, based upon actual results.

It is to be remarked, in discussing the crop-line, that the average crops recorded over the greater part of Riverina are below the possible yield, as it is unfortunately true that the majority of the farmers do not obtain

the results from their land which are possible under good treatment. In many instances the land is badly prepared, the grain sown too late, the method of harvesting wasteful (much of the grain being lost), and the use of fertilisers is by no means general. Experts place the loss as high as 2 bushels per acre, and rarely less than 1 bushel; and it is certain that the average yields would be considerably increased with better farming conditions. In determining the crop-line, therefore, consideration must be given to the poor results attributable to bad farming, as well as to losses by other preventable causes such as rabbits, bush fires, &c.

Based on the experience of previous years, a more rigid definition of successful farming might even exclude districts now placed within the wheat area. For example, several districts along the edge of the line, such as Tocumwal, Wagga, Tenfora, Young, and Parkes, have been included, although results have been rather doubtful, two—and, in some cases, as many as four—failures having been recorded in ten years; but by the application of improved methods it should be possible to obtain more satisfactory results.

In some of the northern districts within the line, much of the land is considered unsuitable for wheat-growing, consisting of stony, hilly country, too rough for cultivation, and of black-soil plains, which bake and crack, and present mechanical difficulties in tillage. The rich soils of river flats must also be omitted from good wheat-growing areas, as such land has a tendency to produce excessive straw growth, although excellent hay can be grown in those localities.

September and October are regarded generally as the most critical months as regards rainfall—this being the time for the filling of the grain. Heavy soils require more rain than light soils, especially if the latter possess retentive subsoils. The nature of the soil, and considerations of elevation, temperature, evaporation, &c., have an important bearing on the rainfall needed for wheat and general culture; and there are few matters of more importance in regard to settling people on the land under payable conditions than the question of soil characteristics.

Excluding the coastal area, where wheat-growing has been practically abandoned during recent years, owing to the liability to rust, the area contained within the wheat belt, and suitable for its cultivation, has been estimated to cover from twenty to twenty-five million acres.

INCREASE IN THE WHEAT YIELD.

It has been shown that the area under wheat is 1,990,180 acres, which is a very insignificant portion (8 per cent.) of the total area available; and even this small area is not worked as profitably as it might be. Compared with the principal wheat-growing countries of the world, an average yield of 11 bushels per acre is very small, as will be seen from the table below. The averages shown are based on the latest available returns:—

Country.	Average yield per acre.	Country.	Average yield per acre.
	bushels.		bushels.
United Kingdom	32·4	India	10·0
Germany	29·7	Russia	7·7
France	19·0	Argentina	14·0
Hungary	16·9	Canada (excluding British Columbia)	17·0
United States	15·8		

A bare statement of average is, however, not entirely conclusive, as the relative cost of production should also be taken into consideration.

Moreover, in the older countries, the efforts of farmers are more concentrated, and more intense cultivation is necessary. In this State, wherever agriculturists have confined their operations to a restricted area, and have made systematic efforts to completely till the soil, their returns have been much greater than those obtained by imperfect cultivation of areas which are beyond the capacity of the holder's teams and implements.

It is reasonable to expect that the rough-and-ready methods of farming which prevail in several of the outlying districts will soon disappear, and that the yield will increase to the extent of at least 2 or 3 bushels per acre. The lack of system in farming is almost necessarily prevalent amongst pioneers in new countries. In many instances the settlers have begun with insufficient capital and with very little practical knowledge; and there are probably very few places where persons without capital could have succeeded so well.

The possibilities of New South Wales are great; and if only a quarter of the area favourable for growing wheat were cultivated on scientific lines, there would be a probable surplus of over 50 million bushels available for export, after satisfying all the demands of the local population. There is a very large market for breadstuffs in the United Kingdom, the average annual import during the last five years having been over 210 million bushels, of which, on the average, slightly more than 3 million bushels per annum have been received from this State. Were the farmers to grow the wheats most in demand in Great Britain, there should be very little of the year's crop unsold, and little risk of the local price falling so low as to be unprofitable. There is also an increasing demand for Australian wheat in the markets of the East.

In the British markets, during 1909, New South Wales wheat was quoted at 43s. 11d per quarter, or 4s. 2d. per quarter higher than the Argentine grain, 4s. 8d. higher than Canadian, and 7s. higher than English.

COST OF GROWING AND EXPORTING WHEAT.

The cost of raising wheat depends upon the size of the holding, as a large farm with first-class agricultural appliances can be worked at a very much lower proportionate cost than a small area. An estimate of the cost of growing wheat should include rent, or interest on purchase-money of land, and carriage to the market. Careful inquiries show that in New South Wales, taking into account the producing factors, such as the proportion of lands variously prepared and sown, the proportion of crops harvested by different methods, average railway and other freights, but excluding interest on capital, rent, &c., the cost of landing wheat in Sydney may be assumed at 19d. per bushel with a 10-bushel crop; and with the increased use of improved machinery, the average cost is likely to be much reduced.

As estimated for wheat farms on large areas with a minimum expenditure per acre, the average cost includes initial expenses for seed, for ploughing, harrowing, sowing, and rolling; then the cost of gathering the crop, stripping, winnowing, and bagging; after which comes the expenditure for transporting the crop from the farm to the market, including road haulage and train transport. These initial charges would naturally vary with conditions, with the size of the farm, the type of machinery, and distance from market, but for a 10-bushel crop might be approximately assessed at 15s. to £1 per acre.

But apart from these initial charges is to be considered the cost of placing the product on the London market, for since wheat is a world product with a world market, of which London is the pivot, this cost affects selling prices. It includes charges for freight, transshipment, insurance, selling charges, and varies also with the type of vessel and other conditions, but always assists to raise the cost by another 1s. per bushel, approximately.

PRICE OF WHEAT.

The price of wheat is subject to constant fluctuation, as shown in the following table, which gives the average rates ruling in the Sydney market in the months of February and March of each year since 1865. These figures exhibit clearly the tendency to a gradual reduction in the value of the cereal down to 1895, when the price was the lowest of the series. In 1896, however, owing to a decrease in the world's supplies, the price rose considerably, and led to an extension of cultivation in Australasia. Up to a few years ago, with a deficiency in the local production, the price in Sydney was generally governed by the rates obtained in the neighbouring Australian markets where a surplus was produced. These, again, are now determined by the figures realised in London, which are usually equal to those ruling in Sydney, plus freight and charges. The prices in the following table are for an imperial bushel, and, being for new wheat, are slightly below the average for the year:—

Year.	February.	March.	Year.	February.	March.	Year.	February.	March.
	per bushel.	per bushel.		per bushel.	per bushel.		per bushel.	per bushel.
	s. d.	s. d.		s. d.	s. d.		s. d.	s. d.
1865	9 6	9 7½	1881	4 1	4 3	1896	4 4½	4 5
1866	8 4½	8 0	1882	5 5	5 6	1897	4 8	4 6½
1867	4 3	4 4	1883	5 1½	5 2	1898	4 0	4 0
1868	5 9	5 9	1884	4 3	4 3	1899	2 7½	2 9
1869	4 9	4 10	1885	3 10½	3 7½	1900	2 9	2 8
1870	5 0	5 1½	1886	4 3½	4 5	1901	2 7	2 7
1871	5 7½	5 9	1887	3 10	3 11	1902	3 2	3 2½
1872	5 0½	5 3	1888	3 6	3 6½	1903	.....	.....
1873	5 1	5 8½	1889	4 9	5 3	1904	3 0½	3 0½
1874	6 9	6 1½	1890	3 6	3 6	1905	3 4½	3 3½
1875	4 7½	4 6	1891	3 7½	3 10	1906	3 1½	3 2½
1876	5 1½	5 6	1892	4 9	4 9	1907	3 0½	3 1½
1877	6 1½	6 6	1893	3 6½	3 6	1908	4 4	4 5½
1878	6 1½	5 7½	1894	2 11	2 8	1909	4 0½	4 6½
1879	5 0	4 9½	1895	2 7	2 7	1910	4 1¾	4 1
1880	4 8	4 9						

During recent years the price did not vary greatly in 1899, 1900, and 1901. There were no quotations in 1903, owing to the almost universal failure of the 1902-3 crop. In 1908 and 1909 the prices were higher than in any year since 1897. In 1910 they were lower than in 1909, but otherwise were better than in any year since 1898.

CONSUMPTION OF WHEAT.

New South Wales was for many years largely dependent on external supplies to meet her requirements for wheat; in 1897 for the first time the production exceeded the consumption, and there was an apparent surplus of 1,123,000 bushels. Since that period there have been deficiencies in 1899 and 1902. The apparent annual consumption per head of population has ranged from 4·1 and 5·3 bushels in 1891 and 1908 to as much as 10·5 bushels in 1904. In the earlier years of the State the consumption was generally much higher than at the later periods; but the quality of the yield was inferior in the initial stages of wheat-growing, and the produce used as human food varied according to the preponderance of wheat unfit for milling purposes. In recent years occasional advances in the average may

be ascribed to this cause; the consumption is also affected by the state of the maize market, short supplies leading to a larger demand for wheat as food for poultry, pigs, etc.

During the last ten years Government agricultural experts have been endeavouring to determine the varieties of wheat most suitable for the various districts, and to secure new types which would return the best milling results under local conditions. It is gratifying to record that their efforts have been attended with marked success.

The statement below shows during each of the last ten years the net export or import of breadstuffs from the State, and the apparent consumption, including wheat required for seed. The figures for flour have been converted into the grain equivalent, 1 ton of flour being regarded as equal to 50 bushels of wheat.

Year ended 31st March.	Wheat crop.	Year ended 31st December.		Apparent consumption, including grain for seed.	
		Net export.	Net import.	Total.	Per head.
	bushels.	bushels.	bushels.	bushels.	bushels.
1900	13,604,166	3,513,112	.....	10,091,054	7.5
1901	16,173,771	7,702,072	.....	8,471,699	6.2
1902	14,808,705	2,774,782	.....	12,033,923	8.6
1903	1,585,097	.....	6,919,765	8,504,862	6.0
1904	27,334,141	12,207,661	.....	15,126,480	10.5
1905	16,464,415	7,695,496	.....	8,768,919	5.9
1906	20,737,200	8,249,807	.....	12,487,393	8.2
1907	21,817,938	8,636,733	.....	13,181,205	8.5
1908	9,155,884	738,015	.....	8,417,869	5.3
1909	15,483,276	5,013,578	.....	10,469,698	6.4

MAIZE.

Maize ranks second in importance amongst the crops of New South Wales; but its cultivation is small in contrast to that of wheat, although thirty-three years ago there was very little difference in the areas under each cereal. In 1880 the area under maize was half that under wheat; now it is less than one-ninth.

This cereal is cultivated chiefly in the valleys of the coastal rivers, where both soil and climate are peculiarly adapted for its growth. On the tableland also good results accrue, and as the land rises in elevation so the average yield per acre proportionately decreases, although in compensation the grain produced is of more enduring quality for export and storage. The following statement shows the distribution of the area under maize for grain during 1909, with the production and average yield in each district:—

Division.	Area under maize for grain.		Yield.	
	Acres.	Per cent. of total area.	Bushels.	Bushels per acre.
Coastal—				
North	76,431	35.9	2,848,000	37.3
Hunter and Manning	44,221	20.8	1,588,638	35.9
Cumberland	4,396	2.1	147,453	33.5
South	16,911	8.0	742,827	43.9
	141,959	66.8	5,326,918	37.5
Tableland—				
Northern	18,617	8.7	500,820	26.9
Central	16,915	7.9	466,338	27.6
Southern	2,275	1.1	52,520	23.1
	37,807	17.7	1,019,678	27.0
Western Slopes... ..	32,429	15.2	739,324	22.8
Western Plains, Riverina, and Western Division	602	.3	12,335	20.5
All Divisions... ..	212,797	100.00	7,098,255	33.4

The North Coast is the most important maize-growing district in the State, having yielded in 1909 over 40 per cent. of the total production, the average yield being 35.9 bushels per acre. After the North Coast, the Hunter and Manning district shows the largest area under crop. The highest average yield in any county was in Auckland, in the South Coast division, with 49.4 bushels per acre. On the North Coast, the best counties were Dudley and Raleigh, which gave 42 and 40 bushels per acre respectively. In 1909 the average yield on the tableland was 27 bushels per acre, and on the western slopes 22.8 bushels. At an early period in the history of the North Coast maize displaced wheat as a product, but latterly dairying has been replacing maize-growing, and a larger proportion of the area under maize is cut for green food for dairy stock.

The next statement gives a comparative review of the maize crop since 1890:—

Year.	Area under maize for grain.	Production.		Year.	Area under maize for grain.	Production.		
		Total.	Average per acre.			Total.	Average per acre.	
	acres.	bushels.	bushels.		acres.	bushels.	bushels.	
1890	191,152	5,713,205	29.9	1903	226,834	6,836,740	30.1	
1891	174,577	5,721,706	32.8	1904	193,614	4,951,132	25.6	
1892	167,549	5,037,256	30.1	1905	189,353	5,539,750	29.3	
1893	205,885	7,067,576	34.3	1906	174,115	5,763,000	33.1	
1894	208,308	5,625,533	27.0	1907	160,980	4,527,852	28.1	
1895	211,104	5,687,030	26.9	1908	180,812	5,216,038	28.8	
1896	211,382	5,754,217	27.2	1909	212,797	7,098,255	33.4	
1897	209,588	6,713,060	32.0	Average for 20 years ended 1909			28.8	
1898	193,286	6,064,842	31.4	"	10	"	1899	29.9
1899	214,697	5,976,022	27.8	"	10	"	1909	27.7
1900	206,051	6,292,745	30.5					
1901	167,333	3,844,993	23.0					
1902	202,437	3,049,269	15.1					

During the last twenty years there have been several fluctuations in the area under cultivation. The largest area—226,834 acres—was cropped in 1903, but since that year the acreage has not been so high. The yield per acre is somewhat variable, ranging from 15.1 bushels in 1902 to 34.3 bushels in 1893, and generally the tendency has been for the average to decrease, owing to the reduction of the area in the coastal districts, where the average yield is highest. In the most favourable localities yields of 80 to 100 bushels per acre have been obtained, and probably few places are better suited for the growth of maize than the coastal districts of New South Wales.

Until 1890 the State produced more maize than could be consumed locally, and exported a small quantity to southern States, but every year since, with one exception, there has been an excess of import ranging from 9,883 bushels in 1898 to 1,476,704 bushels in 1903. Practically nothing has been done to develop an oversea export trade, although the demand for maize is apparently increasing in the United Kingdom and Europe:—

Year.	Net import of maize	Year.	Net import of maize.
	bushels.		bushels.
1900	380,638	1905	353,002
1901	210,569	1906	805,257
1902	1,218,668	1907	892,995
1903	1,476,704	1908	742,577
1904	366,758	1909	807,100

This experience of a net import each year reveals a disregard for the potentialities of the State, and is not easily explained. There is no doubt that the uncertainty as to the price that will be realised for maize, an uncertainty which is shared with all produce grown only for local consumption, has caused the cultivation of this cereal to decrease in favour on the coast and tableland, while on the other hand the profit to be obtained from dairying has led to its further neglect. Another possible reason for the decline is the small attention that has been paid to the cereal as regards scientific cultivation and experiment. During recent years wheat has received very close study as to the kinds suited to various localities and climatic conditions, and as to improvements in cultivation and harvesting, but maize has received little consideration. The falling tendency of the average yield shows also that the land has been drawn upon too much, and emphasises the need for closer attention to the question of fertilisation.

OATS.

The cultivation of oats has been much neglected in New South Wales, though the return has been fairly satisfactory, and the deficiency between the production and the consumption is very considerable. The elevated districts of Monaro, Argyle, Bathurst, and New England contain large areas of land where the cultivation of oats could be maintained with good results.

This cereal is cultivated as a grain crop, principally in the wheat-growing districts; and as it is essentially a product of cold climates, it thrives best in those parts of the country which have a winter of some severity. The principal districts where oats are grown are the tableland, the South-western Slope and Riverina. The area under crop for grain in 1909 was 81,452 acres, which produced 1,966,586 bushels, being 24.1 bushels per acre. The northern tableland gave the best average, with 27.6 bushels per acre. In the whole tableland division, 20,691 acres were under crop, and yielded 484,905 bushels, or 23.4 per acre; on the South-western slope, 24,081 acres gave 594,051 bushels, or 24.7 per acre; while in the Riverina the production was 515,733 bushels from 21,627 acres, or 23.8 bushels per acre. These three divisions accounted for about 96 per cent. of the total production. In the remainder of the State there were only 15,053 acres under cultivation, which yielded 371,897 bushels.

The following table illustrates the progress in the cultivation of oats for grain during the last twenty years:—

Year.	Acres under oats for grain.	Production.		Year.	Acres under oats for grain.	Production.	
		Bushels.	Bushels per acre.			Bushels.	Bushels per acre.
1890	14,102	256,659	18.2	1902	42,992	351,758	8.2
1891	12,958	276,259	21.3	1903	51,621	1,252,156	24.3
1892	20,890	466,603	22.3	1904	40,471	652,646	16.1
1893	34,148	701,803	20.6	1905	38,543	883,081	22.9
1894	30,636	562,725	18.4	1906	56,431	1,404,574	24.9
1895	23,750	374,196	15.8	1907	75,762	851,776	11.2
1896	39,530	834,633	21.1	1908	59,881	1,119,558	18.7
1897	28,605	543,946	19.0	1909	81,452	1,966,586	24.1
1898	19,874	278,007	14.0	Average for 20 years ended 1909			19.3
1899	29,125	627,904	21.6	„	10	„	19.2
1900	29,383	593,548	20.2				
1901	32,245	687,179	21.3				

The area under oats for grain, with slight fluctuations, remained practically stationary until 1893, when over 13,000 acres were added; the rate has since increased, with variations due to the seasons; and in 1909 the area reached 81,452 acres. The yield varies considerably, and in a fair

season will exceed 20 bushels per acre, the average for the last ten years being 19.2 bushels. The lowest yield was 8.2 bushels per acre in 1902, when the crop almost failed, owing to the unfavourable season; and the highest yield was 24.9 bushels in 1906.

The market for oats is chiefly in the metropolitan district, and the demand depends mainly on the price of maize. The production is far from sufficient for the wants of the State, and large quantities are imported each year from Victoria, Tasmania, and New Zealand. The following statement shows the net import of oats during the last ten years, including oatmeal expressed in its equivalent of oats—100 bushels of oats to one ton of oatmeal:—

Year.	Net import of oats.	Year.	Net import of oats.
	bushels.		bushels.
1900	1,187,529	1905	897,775
1901	986,882	1906	636,898
1902	1,560,541	1907	786,773
1903	1,388,710	1908	1,196,895
1904	622,304	1909	1,843,151

It is apparent that much yet remains to be done before the State can be independent of outside assistance; but there is strong reason to believe that as agricultural settlement is developed on the northern tableland this cereal will receive more attention.

BARLEY.

Barley is an important crop, but at present is produced on a moderate scale, although there are several districts where the necessary conditions as to soil and drainage present inducements for cultivation, and particularly with regard to the malting varieties. It is mostly grown on the North-west Slope, in the Tamworth district, the area in that part during 1909 being 6,493 acres, from which the bulk of the produce was for malting purposes. The areas under crop in other districts are small, and do not call for special notice. For the State as a whole the following table shows the area under barley for grain, together with the production in each year since 1890:—

Year.	Area under barley for grain.	Production.		Year.	Area under barley for grain.	Production.		
		Total.	Average per acre.			Total.	Average per acre.	
	acres.	bushels.	bushels.		acres.	bushels.	bushels.	
1890	4,937	81,383	16.5	1902	4,557	18,233	4.0	
1891	4,459	93,446	21.0	1903	10,057	174,147	17.3	
1892	4,618	91,701	19.9	1904	14,930	266,781	17.9	
1893	6,113	114,272	18.7	1905	9,519	111,266	11.7	
1894	10,396	179,348	17.3	1906	7,879	152,739	19.1	
1895	7,590	96,119	12.7	1907	11,890	75,148	6.3	
1896	6,453	110,340	17.1	1908	9,507	166,538	17.5	
1897	5,151	99,509	19.3	1909	15,091	272,663	18.1	
1898	4,459	64,094	14.4					
1899	7,154	132,476	18.5					
1900	9,435	114,228	12.1	Average for 20 years ended 1909...			15.7	
1901	6,023	103,361	17.2	..	10	..	1909...	14.7

The record exhibits considerable fluctuations as to area and as to the average production per acre, thus indicating that farmers consider it more profitable to devote their attention to the other cereals, the immensely larger areas for which clearly point to their preference. From the table it appears that limited areas were cultivated, until in 1894 there were upwards of 10,000 acres. With great variations, down to

4,500 acres, it was not until nine years later that the area again reached the figures for 1894. A maximum year was experienced in 1909, when the total suddenly expanded to 15,091 acres, which produced 272,663 bushels.

As to yield, great variations are to be found, ranging from 4 bushels per acre in 1902, when the crop practically failed, to the excellent rate of 21.9 bushels obtained in 1886. The average crop during the last ten years has been 14.7 bushels per acre; but as there were two extremely adverse seasons in the period, this rate should not be regarded as characteristic; on the other hand, the returns for many seasons indicate that an average crop of 18 bushels per acre may be expected under normal conditions.

A remunerative price can be obtained from maltsters for suitable grain, and if the farmers were to consult with the users as to requirements in threshing, &c., and to treat the grain accordingly, no doubt a mutually advantageous trade could be developed, which would displace the importations at present necessary, and which are derived mainly from New Zealand growers. The net imports of barley and malt into the State during the last ten years have been as follows:—

Year.	Net Import.		Year.	Net Import.	
	Barley.	Malt.		Barley.	Malt.
	bushels.	bushels.		bushels.	bushels.
1900	63,919	387,388	1905	21,834	275,833
1901	74,743	497,229	1906	150,582	320,835
1902	214,141	356,639	1907	136,516	408,957
1903	223,728	304,733	1908	196,604	429,002
1904	123,680	327,818	1909	209,818	347,767

RYE.

Rye is cultivated to a very limited extent, and is grown either in separate areas, or in combination with leguminous crops, largely as green food for dairy cattle, the supply for grain being obtained mainly in the central part of the tablelands of the State. The total area under this cereal during 1909 was 5,372 acres; the average yield during the last ten years was 12.0 bushels per acre, the best year being 1904, with an average of 16.3 bushels. The average for 1909 was 11.9 bushels.

BROOM MILLET.

Broom millet is a small but valuable crop, the return from the fibre alone amounting to £25,040. In 1909 the area under broom millet was 2,099 acres, from which 16,692 cwt. of fibre and 22,721 bushels of grain were obtained, the averages being 8.0 cwt. and 18.2 bushels respectively per acre. The average return during the last ten years was 6.5 cwt. per acre. In 1900, 1903, and 1909 the averages reached 8 cwt. per acre. The greater part of the crop is grown in the Hunter River Valley and in the valleys of the northern coastal rivers.

HAY.

A very considerable proportion of the areas under wheat, oats, barley, and lucerne are utilised for the production of hay for farm stock, and chaff for the markets. These are increasing, but the extent of the increase depends on the climatic conditions of the season, which determine the future of the crops for grain purposes.

The following statement shows the area under each crop for hay, the total production, and the average return per acre during the last six years:—

Type of Hay.	1904.	1905.	1906.	1907.	1908.	1909.
AREA.						
	acres.	acres.	acres.	acres.	acres.	acres.
Wheat	284,367	313,582	316,945	365,925	490,828	380,784
Oats	107,805	88,495	94,420	132,325	169,441	178,968
Barley... ..	1,285	2,397	843	937	1,566	1,844
Lucerne	42,247	33,562	45,964	43,574	54,061	68,995
Rye ... ..	.....	.....	.....	.....	.....	73
Total	435,704	438,036	458,172	542,761	715,896	630,664

PRODUCTION.						
	tons.	tons.	tons.	tons.	tons.	tons.
Wheat	207,439	304,714	403,109	198,230	426,916	565,549
Oats	82,166	93,522	131,355	99,865	186,243	255,781
Barley... ..	1,111	1,856	1,202	638	1,757	2,451
Lucerne	75,577	59,090	86,180	78,067	115,098	157,331
Rye ... ..	.....	.....	.....	.....	.....	89
Total	366,293	459,182	621,846	376,800	730,014	981,201

AVERAGE PRODUCTION PER ACRE.						
	tons.	tons.	tons.	tons.	tons.	tons.
Wheat	·7	1·0	1·3	0·5	0·9	1·5
Oats	·8	1·1	1·4	0·8	1·1	1·4
Barley... ..	·9	0·8	1·4	0·7	1·1	1·3
Lucerne	1·8	1·8	1·9	1·8	2·1	2·3
Rye ... ..	.....	.....	.....	.....	.....	1·2
All varieties	0·8	1·0	1·3	0·7	1·0	1·6

About 60 per cent. of the total area under cultivation for hay is taken up by the area under wheaten hay. Until 1894 the area for wheaten hay increased at a much greater rate than that for grain, but during subsequent years, on account of the great development in wheat cultivation, there has been little difference in the ratio of the two forms of production.

In general, oats are grown in parts of the State which, on account of the climate, are unsuitable for maturing the grain, and preference is given to cultivation for hay; moreover, the prices obtainable for the hay are usually so profitable as to prevent any material development of the grain harvest.

The area under barley for hay is inconsiderable. Lucerne hay is always in good demand, and consequently realises remunerative prices. It gives the best return of all hay crops, the average yield during the last ten years having been 2 tons per acre for lucerne, slightly more than 1 ton each for barley and oaten, and 1 ton for wheaten hay. In favourable districts, if it has received careful attention, it grows so rapidly that a series of crops may be secured. As many as eight cuttings have been secured, with an average result of 1 ton per acre for each.

The growing of hay is evidently receiving additional attention every year; but there is still a considerable margin between the amount of hay required in the State and the local production, as evidenced by the large

import trade, the continuous volume of which clearly shows that dry seasons do not constitute the only influencing factor. The following table shows the net imports of hay and chaff during the last ten years:—

Year.	Net import of hay and chaff.	Year.	Net import of hay and chaff.
	tons.		tons.
1900	31,160	1905	41,890
1901	14,665	1906	68,441
1902	293,810	1907	83,586
1903	116,241	1908	113,218
1904	22,699	1909	80,475

The figures shown above afford a convincing reason to justify the farmers in the State in the extension of the cultivation of hay in its various forms.

GREEN FOOD AND SOWN GRASSES.

The great advance in the dairying industry, the details concerning which are treated elsewhere, has caused a corresponding increase during recent years in the cultivation of cereals, lucerne, and grasses, for green food. The sowing and improvement of artificial grasses have received great attention, particularly in the northern and southern coastal districts, the great centres of the dairy farming of the State. Considerable areas have been sown also in the centre of the tableland, and smaller cultivations have been undertaken in the northern and southern tablelands and in the Murray Valley. The following statement shows the increase in the area cultivated for green food and sown with artificial grasses since 1885:—

Year.	Area cultivated for green food.	Area sown with permanent grasses.	Year.	Area cultivated for green food.	Area sown with permanent grasses.
	acres.	acres.		acres.	acres.
1885	26,318	130,392	1904	37,718	607,997
1890	37,473	388,715	1905	95,058	627,530
1895	66,833	300,862	1906	122,914	697,631
1900	78,144	422,741	1907	260,810	736,080
1901	113,060	467,839	1908	235,539	807,924
1902	109,146	477,629	1909	118,106	888,937
1903	77,093	552,501			

The great advance in cultivation indicated by the table shows the appreciation by the farmers of the necessity for enriching the deteriorated pastures, and for replacing the grasses which have disappeared.

Lucerne is grown in considerable quantities on the Hunter River flats, and the cultivation of this fodder is extending throughout the country, principally along the banks of the rivers on the western slope of the Dividing Range. In the far western pastoral districts attempts have been made to cultivate lucerne under irrigation, and have met with marked success. During 1909 there were 43,457 acres grown for green food, and if these be added to the area previously shown as being under hay, viz., 68,995 acres, there were altogether 112,452 acres under this form of cultivation. In the United States and Argentine, where experiments have proved that it will succeed, lucerne is superseding the indigenous grasses.

ENSILAGE.

New South Wales is liable, at intervals, to long periods of dry weather, and in occasional years severe droughts occur; hence the necessity for conserving green foods in the form of ensilage must be readily admitted. Ensilage is also clearly an advantage in the dairying districts of the coast, where the conditions are unfavourable to the growth of winter fodder.

The quantity of ensilage made during the last five years is shown in the following table:—

Divisions.	Ensilage made.				
	1905.	1906.	1907.	1908.	1909.
	tons.	tons.	tons.	tons.	tons.
Coastal	1,414	2,667	5,621	12,427	11,133
Tableland	1,430	1,522	1,825	3,339	3,414
Western Slopes	2,250	5,115	3,681	6,374	10,632
Western Plains and Riverina... ..	4,227	2,528	1,529	5,168	9,334
Western Division ... ..	.....	17	200	160	334
Total	9,321	11,849	12,856	27,468	34,847

Comparatively little attention has been devoted to the construction of silos, and the storing of ensilage; but the necessities of the grazier, when the policy of closer settlement shall have reduced the large areas of land hitherto available for feeding stock, will compel him to make provision by preserving and storing the green food when opportunities occur in the growing season of the year.

It will be seen that the ensilage has steadily increased during the last quinquennium, the amount in 1909 being the highest recorded. The whole amount was made on 364 farms, and is valued at £55,929; but it is particularly noticeable in the above table that the quantities of ensilage made are quite negligible in the Western division, where, it is probable, there is the greatest need of such provision.

POTATOES.

In the potato is another illustration of the great neglect in the cultivation of a staple article of food, although many parts of the State are eminently suitable for its growth. The bulk of the production is on the tableland, especially in the central portion, where, in 1909, there were 16,789 acres under cultivation. One country, Bathurst, had 12,252 acres or over one-third of the whole area in the State, devoted to potatoes. After the tableland, the coastal districts grow the largest crops. The highest average—3·06 tons per acre—was returned by the northern tableland, after which came the south coast with 2·92 tons. The following statement shows the area under cultivation and the production at intervals since 1885:—

Year.	Area under crop.	Production.		Year.	Area under crop.	Production.	
		Total.	Average per acre.			Total.	Average per acre.
	acres.	tons.	tons.		acres.	tons.	tons.
1885	15,166	38,695	2·6	1905	26,374	50,386	1·9
1890	19,406	52,791	2·7	1906	36,815	114,856	3·1
1895	24,722	56,179	2·3	1907	31,917	55,882	1·8
1900	29,408	63,253	2·2	1908	26,301	71,794	2·7
1901	26,158	39,146	1·5	1909	35,725	109,143	2·8
1902	19,444	30,732	1·6	Average for 10 years ended 1899...			2·6
1903	20,851	56,743	2·7	" " " " " " " " " " " "			2·3
1904	23,856	48,754	2·0	" " " " " " " " " " " "			2·3

There was a marked increase in cultivation in the year 1894, when 30,089 acres were planted; but the continuous fluctuation in the area from year to year since that time clearly shows that the possible advantages of this crop have been much neglected. The year of maximum growth was 1906, when 36,815 acres were planted.

The average yield during the last ten years has been 2·3 tons per acre, and the highest 3·1 tons per acre in 1906. At present New South Wales has to meet a considerable deficiency by importation from the other States, chiefly Victoria and Tasmania, which amounted to 36,923 tons in 1909, or about 27 per cent. of the total consumption. The statement below shows the net import of potatoes during the last ten years:—

Year.	Net import of potatoes.	Year.	Net import of potatoes.
	tons.		tons.
1900	49,299	1905	42,118
1901	42,628	1906	32,619
1902	50,284	1907	44,928
1903	62,083	1908	71,473
1904	73,044	1909	36,923

The slow progress in the cultivation of potatoes is caused largely by the cost of carriage to market, as compared with the cheap water transport from Victoria and Tasmania. Some years ago the coast districts produced large quantities of potatoes; but the cultivation was abandoned, owing to the prevalence of pests, which continually devastated the crops; and for which, at the time, a remedy was not available.

MINOR ROOT CROPS.

The cultivation of root crops other than potatoes requires brief notice, as only 985 acres were planted with onions, turnips, mangold-wurzel, carrots, sweet potatoes, and artichokes. The largest area was under turnips, namely, 380 acres, which yielded 1,287 tons, or 3·4 tons per acre. The probable reason for the small attention paid to the growth of onions, of which there were 313 acres, yielding 1,517 tons, is the uncertainty as to the price to be obtained for the produce, as there is no lack of soil suited to its cultivation. Large importations are necessary to meet the local demand, and amounted to 9,900 tons during 1909.

The area under sweet potatoes was 265 acres, and the yield 1,418 tons. Mangold-wurzel showed only 14 acres under cultivation, which yielded 126 tons. In some of the more elevated dairying districts, mangold-wurzel is now being grown as winter fodder for cattle. Excellent results in the cultivation of arrowroot have been obtained at the Wollongbar experimental farm, near Lismore.

TOBACCO.

The growing of tobacco as an industry has been undertaken for many years, but with considerable fluctuation in the annual production. This may, perhaps, be attributed to the necessity for special knowledge and care in its cultivation and curing, and probably no material advancement will be made until trade pressure in other countries forces attention to new fields of production.

Originally the plant was cultivated chiefly in the agricultural districts of the county of Argyle and the Hunter River Valley, but these districts have now been abandoned, and the little that is grown is found in the northern and southern portions of the western slope and on the central tableland. The

following statement shows the cultivation of tobacco during the last ten years:—

Year	Area.	Production.		Year.	Area.	Production.	
		Total.	Average per acre.			Total.	Average per acre.
	acres.	cwt.	cwt.		acres.	cwt.	cwt.
1900	199	1,905	9·6	1907	533	3,438	6·5
1901	182	1,971	10·8	1908	618	3,838	6·2
1902	317	2,604	8·2	1909	959	6,498	6·8
1903	407	5,320	13·1				
1904	752	5,015	6·7				
1905	809	7,327	9·1	Average for 20 years ended 1909			9·5
1906	601	5,371	8·9	„	10	„	8·1

For seven or eight years prior to 1888 the area under cultivation grew steadily, until in that year it reached the highest figure it has ever attained, namely, 4,833 acres. As however, the local product did not compare favourably with the American leaf, it could not be exported profitably, so that a large proportion of the crop remained upon the farmers' hands, and as the quantity sold realised very unsatisfactory prices, due mainly to the failure to produce, by cultivation and curing, a first-grade article, many growers abandoned tobacco in favour of other crops. With the accumulation of stocks of leaf, and the fall in the price of the local product, the area under the plant and the resultant yield declined rapidly, until in 1894 the acreage was only 716. During the next two years there was a little more activity, and the area increased to 2,744 acres in 1896; it, however, fell away again after that year, and in 1901 amounted to only 182 acres. Since that year the area has increased to 959 acres, owing to the increased attention paid to the curing of the leaf. Tobacco manufacturers have endeavoured to stimulate the industry by offering good prices for suitable leaf, and employing an expert to assist and instruct the growers.

Since few countries are better favoured than this State with climate and soil necessary for successful cultivation, it is a matter for regret that the industry has not made more satisfactory progress. This has been due partly to the producer and partly to the market. With an improvement in the quality of the leaf, the local consumption could be rapidly overtaken and an export trade promoted. Tobacco of excellent quality has been produced, but much of it is now grown by Chinese, who consider weight rather than quality, and an inferior leaf is the consequence. There is, therefore, ample scope for improving the quality of the product sufficiently to satisfy the local consumer.

The impression that it is not possible to produce tobacco of high quality in New South Wales probably arose from experience of a product grown in unsuitable soil, and carelessly cultivated. During recent years excellent tobacco has been grown at Ashford, in the Inverell district generally, and near Tumut, under the guidance of a departmental expert, proving that it is possible to grow in the State a tobacco well suited to the most fastidious market, and if a regular supply were available, properly fermented and packed, a large trade might be developed.

SUGAR-CANE.

Sugar-cane was grown as far back as 1824, but it was not until 1865 that anything like systematic attention was given to the matter. In the latter year experiments were carried out on the Clarence, Hastings, Manning, and Macleay Rivers which on the whole proved successful, and were followed by more extensive planting. The Macleay may be regarded as the principal seat of the industry during its earlier stages; but it proved to be unsuitable to the growth of the cane, and the risk of failure from frosts compelled

the planters to keep more to the north. In a few years the richest portions of the lower valleys of the Clarence, the Richmond, the Tweed, and the Brunswick, were occupied by planters. Mills were erected in the chief centres of cane-cultivation, and cane-growing and sugar-manufacturing became established industries in the north-eastern portions of the State. Although frosts are sometimes experienced in this region, the soil and climate of the valleys of the northern rivers are in most respects well adapted to successful cultivation, and it is confined principally to the valleys of the Richmond, Tweed, and Clarence Rivers, where, on account of the proximity to Queensland and the similarity to the conditions which rule the sugar production of the northern cane-fields, the producers of the raw material in this State may benefit by any experimental work. Continual efforts are being made to improve the quality of the cane product; varieties and seedlings are carefully tested, soils are closely analysed, the effects of irrigation and fertilising noted, and by due regard to these points the cane-yield has been greatly increased.

As the difference between the results of good cultivation as opposed to merely growing cane without the application of scientific principles may extend the yield to 34 tons per acre, it is evident careful methods will reap a reward in an enhanced production.

The yield of sugar from the cane crushed varies considerably, the variation approximating, between a maximum and minimum year, to 1 ton of cane in the quantity required to make 1 ton of sugar, according to the saccharine density of the cane. As compared with Queensland, where the average yield of cane per acre was 14.5 tons, the yield for this State may be regarded as satisfactory, but as compared with the return which could be gathered by the application of more scientific methods of culture, there is evidence that considerable improvement might easily be made.

The following table shows the progress of this industry since 1863, when only 2 acres were recorded as under cultivation. As sugar-cane is not productive within the season of planting, the area under cultivation has been divided, as far as practicable, into productive and non-productive, the former representing the number of acres upon which cane was cut during the season, and the latter the area over which it was unfit for the mill, or allowed to stand for another year. On the average the area cut for cane represents about one-half of the total area planted.

Year.	Area.			Production of cane.	
	Productive.	Non-productive.	Total.	Total.	Average per acre.
	acres.	acres.	acres.	tons.	tons.
1863	.....	.....	2	.....	.....
1864	.....	.....	22	.....	.....
1865	.....	.....	141	.....	.....
1870	1,475	2,607	4,082	.....	.....
1875	3,654	2,800	6,454	.....	.....
1880	4,465	6,506	10,971	121,616	27.2
1885	9,583	6,835	16,418	239,347	25.0
1890	8,344	12,102	20,446	277,252	33.2
1895	14,398	18,529	32,927	207,771	14.4
1900	10,472	11,642	22,114	199,118	19.3
1901	8,790	12,019	20,809	187,711	21.4
1902	8,899	11,402	20,301	183,105	20.6
1903	10,405	9,814	20,219	227,511	21.9
1904	9,772	11,753	21,525	199,640	20.4
1905	10,313	11,492	21,805	201,998	19.6
1906	10,378	10,202	20,580	221,560	21.3
1907	9,916	8,037	17,953	277,390	28.0
1908	6,951	10,030	16,981	144,760	20.8
1909	6,480	8,457*	14,937	131,081	20.2

* Includes 854 acres cut for plants or green food.

From the small beginnings of 1863 there was but one single break (that of 1875) in the yearly increase of land put under cane until 1884. During succeeding years there was, however, a retrograde tendency, and the area cultivated in 1888 was less by 2,236 acres than that cultivated in 1884. The low price of the product and the disturbed state of the markets of the world during these years forced the sugar manufacturers to reduce the price offered for the cane, and so caused, for a time, the abandonment of this cultivation by the small farmers, who found in the growth of maize less variable results for their labour.

In 1889 there was an increase in the area under cane of 1,213 acres, with further increases in successive years until 1895, when the largest area on record, 32,927 acres, was planted. In 1895 alterations were made in the Customs tariff as regards sugar, and also about that time there were great developments in the dairying industry on the northern rivers, both of which diverted attention from sugar-planting. After 1895 the area under cane steadily declined for five years, until in 1900 there were only 22,114 acres under cultivation. From 1900 the area remained practically stationary for five years at a little over 20,000 acres; there has been a further diminution, and in 1909 there were only 14,937 acres under cultivation.

In 1896 the highest production of 320,276 tons of cane was obtained; but the average production per acre was only 17.6 tons—with the exception of that of 1895 and of 1884, the lowest on record. The cane disease, prevalent principally on the Clarence, caused the low averages during the period 1894-96, and in 1895 the crop was further damaged by frost. The comparatively low yields of 1898-1900 were due to unfavourable seasons. The area of cane cut during 1909 was 6,480 acres, with a total yield of 131,081 tons, or an average of 20.2 tons per acre. During the last ten years the average has been 21.4 tons per acre.

The county of Rous is the principal centre of cultivation, containing 7,697 acres, devoted to the production of sugar—an area equal to more than half the total acreage in the State under cane crops. The yield obtained in 1909 from 3,358 acres of productive cane amounted to 69,958 tons, showing an average of 20.8 tons per acre. In the county of Clarence cane is grown on 5,069 acres. In this, as in the other sugar-growing counties, the majority of the farmers cultivate sugar-cane in addition to other crops, or in conjunction with dairying, and only a few estates are devoted entirely to its production. Some planters have areas of 25 to 100 acres in extent under cane; but their number is limited. The yield in the county of Clarence last season was 45,803 tons, or an average of 20.7 tons per acre, cut on an area of 2,211 acres. In the county of Richmond, the area under sugar-cane was 2,171 acres, of which 911 acres were cut, giving a total yield of 15,320 tons of cane, or an average of only 16.8 tons to the acre.

Sugar-cane is generally cut in the second year of its growth, the fields being replanted after they have given crops for three or four seasons; and as the cane has been planted at irregular intervals, the seasons of large production have sometimes been followed by small crops in the succeeding year. Sugar manufacturers invariably purchase the year's crop of cane standing, and cut it at their own cost. From plantations in full bearing the average weight of the cane cut varies from 25 to 32 tons, and the value received by the grower, exclusive of bounty on sugar grown by white labour, was, in 1909, about 10s. 10d. per ton of uncut cane. An additional 3s. per ton was paid for cutting, which, in most cases, was done by the growers. The field work on the sugar plantations of New South Wales has been performed generally by white labour, and even in 1901, when the Federal legislation in connection with the sugar industry was passed, the number of blacks employed was not large. At the Census of 1901

there were 239 Hindoos and 291 natives of the Pacific Islands working on the plantations.

The duty on imported cane sugar is £6 per ton, while the excise duty is fixed at £4 per ton; but a bounty of 6s. per ton of cane, calculated on cane giving 10 per cent. of sugar, is allowed on Australian sugar grown by white labour, the bounty being paid to the grower. In 1911 and 1912 the rates will be respectively two-thirds and one-third of those just mentioned. The cost of growing may be assumed at 2s. 11d. to 3s. 5d. per ton of cane for white and black labour, respectively, and about 10 per cent. of the sugar grown is cultivated by black labour. The following statement shows during the last eight years the area cultivated and the sugar produced by white and black labour, also the total amount of bounty paid each year:—

Year.	Area cultivated by—			Sugar produced by—			Amount of bounty. £'
	White labour.	Black labour.	Total.	White labour.	Black labour.	Total.	
	acres.	acres.	acres.	tons.	tons.	tons.	
1902	21,591	2,466	24,057	19,434	1,526	20,960	36,333
1903	22,076	2,503	24,579	19,236	2,561	21,797	40,154
1904	19,114	2,411	21,525	17,812	1,838	19,650	36,107
1905	19,612	2,193	21,805	18,019	1,964	19,983	36,234
1906	18,645	1,956	20,601	21,805	1,613	23,418	42,789
1907	15,164	1,613	16,777	28,247	934	29,181	78,080
1908	15,545	1,436	16,981	14,351	964	15,315	40,687
1909	13,899	1,038	14,937	13,839	815	14,654	36,834

The figures in the above table are supplied by the Customs Department, and differ in some years as regards the area cultivated from those in the preceding table. The figures agree as to the area cut for cane, but differ as regards the area uncut; the reason is not apparent, but it is due probably to different methods and times of collecting the information.

GRAPE VINES.

In almost every part of the State, with the exception of the sub-tropical portion and the higher parts of the mountain ranges, grape-vines thrive well, and bear large crops, equal in size, appearance, and flavour to the products of France, the Rhinelands of Germany, and Spain. The principal vineyards are situated in the valleys of the Murray and Hunter Rivers, where considerable expense has been incurred to introduce skilled labour, and to provide manufacturing appliances. The vine-growing and wine-manufacturing industries are in their infancy, but with a growing local demand, and with the establishment of a market in England, where the wines of New South Wales have gained appreciation, the future of grape culture in this country appears to be fairly assured. At present the production is comparatively insignificant, as shown in the following table:—

Year.	Total area under vines.	Area under vines for wine-making only.	Production.		Year.	Total area under vines.	Area under vines for wine-making only.	Production.		
			Total.	Average per acre.				Total.	Average per acre.	
	acres.	acres.	galls.	galls.		acres.	acres.	galls.	galls.	
1860	1,584	.622	99,791	160	1903	8,940	5,101	1,086,820	213	
1865	2,126	1,243	168,123	135	1904	8,840	5,298	928,160	175	
1870	4,504	2,371	342,674	145	1905	8,754	5,279	831,700	157	
1875	4,459	3,163	831,749	263	1906	8,521	4,951	1,140,000	230	
1880	4,800	2,907	602,007	207	1907	8,483	4,644	778,500	168	
1885	5,247	2,876	555,470	193	1908	8,251	4,472	736,262	165	
1890	8,044	3,896	842,181	216	1909	8,330	4,561	808,870	177	
1895	7,519	4,390	885,673	202						
1900	8,441	4,534	891,190	197						
1901	8,606	4,889	868,479	178	Average for 10 years ended 1899				187	
1902	8,790	5,041	806,140	160	" " " " " "				1909	182

The production has increased slowly during the period under review, the total area planted being now 8,330 acres, of which 4,561 acres yielded 808,870 gallons of wine. The total number of vineyards in 1909 was 1,611.

The average area of each vineyard was 5 acres, and the area planted with vines still in an unproductive state was 679 acres. Vignerons consider 250 gallons per acre a good yield; but the average yield for New South Wales reached this figure only in one year since the establishment of the industry, viz., in 1875, with 263 gallons. The average yield in 1909 was 177 gallons per acre, and during the last ten years 182 gallons. The best yield during the last twenty years was in 1891, when it was 237 gallons per acre.

Notwithstanding the acknowledged excellence of our wines, the export for the State has not yet reached an important figure. Among the causes which retard the acceptance of Australian wines in English markets may be mentioned the practice of shipping the product at too early an age, and the impossibility of obtaining from the shippers details respecting the vintage of any particular wine. Foreign experts also find fault with the method of casking; and there is no doubt that the success of New South Wales as a wine-exporting country will depend on the adoption of more advanced methods, and on the enterprise of vignerons in properly advertising the merits of their productions.

In the following table are particulars of the export trade in wine locally produced, for the ten years extending from 1900 to 1909:—

Year.	Export.	Year.	Export.
	gallons.		gallons.
1900	28,324	1905	47,471
1901	39,651	1906	75,661
1902	95,799	1907	128,946
1903	53,193	1908	70,460
1904	42,852	1909	71,694

The wine industry is hampered in its development by such drawbacks as phylloxera and anthracnose ("black spot"). Phylloxera has caused damage in the Camden, Seven Hills, and Parramatta districts, and some alarm exists among wine-growers touching its development in the future. Fortunately, the affected areas are confined to isolated patches.

The desire of the Government to extend the application of the most scientific methods in connection with wine-making and the general cultivation of the vine, and to extirpate the phylloxera disease, has led to the appointment of an expert, under whose direction inspectors have been engaged vigorously dealing with infected vineyards, and a Viticultural Station has been established at Howlong, near Albury, for the propagation of resistant stocks, and for conducting various experiments in connection with wine-growing.

The culture of grapes is not restricted to the production of fruit for the purposes of wine manufacture only, as a considerable area is devoted to the cultivation of table-grapes, particularly in the neighbourhood of Sydney, and in Ryde, Parramatta, and other districts of Central Cumberland. The extent of country devoted to this branch of the industry in 1909 included 2,916 acres, with a production of 4,181 tons of grapes, giving an average of 1.4 tons of fruit per acre.

Although there is a large local demand, and a possibility of an export trade for raisin fruits, no extensive effort has been made in that direction. In 1909 there were 174 acres cultivated for drying purposes, and the

yield was 1,482 cwt. At the Wagga and Hawkesbury experimental vineyards, raisins and sultanas are dried every season and placed on the local market, where they are regarded as equal in every respect to the imported article.

ORCHARDS.

The cultivation of fruit does not receive the full attention it deserves, although the soil and climate of large areas throughout the State are well adapted to fruit-growing. With these areas and with climatic conditions so varied, ranging from comparative cold on the high lands to semi-tropical heat in the north coast district, a large variety of fruits can be cultivated. In the vicinity of Sydney, oranges, peaches, plums, and passion-fruit are most generally planted. On the tableland, apples, pears, apricots, and all fruits from cool and temperate climates thrive well; in the west and south-west, figs, almonds, and raisin-grapes would grow; and in the north coast, pineapples, bananas, and other tropical fruits grow excellently.

The cultivation of citrus fruits has been undertaken largely in the districts adjacent to the metropolis. The first orange groves were planted near the town of Parramatta, and soon spread to the neighbouring districts of Ryle, Pennant Hills, Lane Cove, the whole of Central Cumberland, the vaneys of the Hawkesbury and Nepean Rivers, and the slopes of the Kurrajong Mountains.

In the collection of last year's statistics of citrus and other fruit orchards, a new system was adopted by which the area under each kind of fruit trees, productive and non-productive, may be ascertained with accuracy. Under the system previously in vogue there is no doubt that, in mixed orchards, some of the area devoted to citrons was included with other fruits, and that a proportion of the unproductive area was returned as productive. Statistics relating to this branch of fruit-culture since 1890 are shown in the subjoined statement:—

Year.	Area under cultivation.			Production.	
	Productive.	Not yet bearing.	Total.	Total.	Average per acre.
	acres.	acres.	acres.	dozen.	dozen.
1890	8,737	2,551	11,288	11,562,000	1,058
1895	8,759	3,197	11,956	5,954,940	680
1900	11,013	3,952	14,965	6,486,276	589
1901	11,670	4,091	15,761	7,254,552	622
1902	12,550	3,657	16,207	5,092,392	406
1903	13,418	3,310	16,728	7,841,544	584
1904	14,486	2,918	17,404	7,918,380	547
1905	15,054	2,795	17,849	8,864,928	589
1906	15,173	2,582	17,755	7,937,488	516
1907	16,430	2,087	18,517	12,957,216	789
1908	16,570	2,040	18,610	7,847,580	474
1909	17,214	2,644	19,858	12,501,072	726

In 1878 the area under oranges and lemons was 4,287 acres; in 1909 this had increased to 19,858 acres, of which 17,214 were productive. The latest production was equal to 726 dozen per acre—during the last ten years the average yield being 576 dozen. It is estimated that over 3,000 dozen of fruit to the acre can be obtained during an average season from fair-sized trees in full bearing, and it is, therefore, probable that the figures returned by the growers include the production of a considerable number of young trees. The number of orangeries cultivated during the year 1909 was 4,010, and of these, the average area was 4.9 acres.

The production of oranges has attained such proportions, that the growers are obliged to seek markets abroad for the disposal of their crop, as the supply, both in New South Wales and in the adjacent States, in some seasons, exceeds the demand. The principal market outside Australia is in New Zealand. Efforts have been made to establish a trade with the United Kingdom, but for various reasons they have not met with success. However, in view of the success that has been attained in other countries in carrying these fruits long distances by sea, there is reason to hope that the present difficulties may be surmounted.

The following table shows the area under orchards and fruit-gardens, exclusive of orangeries, together with the total value of each year's yield, since 1890:—

Year.	Area of productive fruit-gardens and orchards.	Area of fruit-gardens and orchards not bearing.	Total area cultivated for fruit-gardens and orchards.	Total value of the production of fruit-gardens and orchards.	Approximate average value per acre.
	acres.	acres.	acres.	£	£ s. d.
1890	16,081	6,274	22,355	213,934	13 6 0
1895	20,635	8,145	28,780	130,735	6 7 0
1900	25,766	5,503	31,269	270,081	10 10 0
1901	27,044	5,302	32,346	155,579	5 15 0
1902	27,161	4,216	31,377	173,535	6 8 0
1903	27,576	4,012	31,588	211,318	7 13 0
1904	26,196	3,740	29,936	162,670	6 4 0
1905	25,189	3,577	28,766	189,195	7 10 0
1906	24,708	3,714	28,422	230,135	9 6 0
1907	23,992	4,205	28,197	153,110	6 8 0
1908	23,170	4,100	27,270	231,370	10 0 0
1909	20,060	5,799	25,859	233,050	11 12 4

There has been no increase in the area under orchards and fruit-gardens of recent years. Since 1890 the increase has been 3,504 acres; but since 1896 there has been a marked decrease. One-third of the area under orchards is in the county of Cumberland, the actual acreage in 1909 being 8,560. From 1889 to 1892 the average production was valued at from £12 to £13 per acre, but during the last ten years the average has been only £7 13s. per acre.

The fruit-production of New South Wales, with the exception of oranges, is far behind local demands. The State is, therefore, obliged to import large quantities, the greater portion of which could be successfully grown within its own boundaries. Leaving out of consideration the large importations of tropical fruits from Fiji, the South Sea Islands, and Queensland, the introduction of fruit from abroad is still greatly in excess of the possibilities of local production.

The following statement shows the imports of fresh fruits, excluding bananas and pineapples, during each of the last three years, and the exports of locally-grown fruit. The exports are almost entirely to the other States and New Zealand, and the imports chiefly from Italy and the United States, Victoria, and Tasmania.

Fresh Fruits.	Imports.			Exports (domestic produce).		
	1907.	1908.	1909.	1907.	1908.	1909.
	centals.	centals.	centals.	centals.	centals.	centals.
Apples	166,442	208,293	174,596	34,432	33,657	42,065
Oranges and Lemons	25,685	22,691	22,562	205,966	94,273	112,665
Other	166,275	120,682	143,981	49,630	32,890	43,147

In addition to the above, there were large imports of jams and canned fruits and pulp. In 1909 the value of the net import of fruit commodities; jams, fresh fruits, preserved fruits, &c., was £555,000, a sum which is far too large, considering the State's natural advantages of soil and climate.

MARKET-GARDENS.

In 1909 there were in the State 3,808 holdings, comprising 10,254 acres, cultivated as market-gardens, the average size of each garden being 2·7 acres. The value of the production for the year was £311,580. More than one-third of the total area laid down for market-gardens is in the county of Cumberland. Until recent years the industry was almost entirely in the hands of the Chinese, but latterly it has received much attention from European farmers in the districts in the vicinity of the metropolis.

The subjoined statement gives the number and area of market gardens, and the value of the produce in various years since 1890:—

Year.	Market-gardens.	Area.	Value of production.	
			Total.	Average per acre.
	No.	acres.	£	£ s. d.
1890	*	5,098	192,597	37 15 7
1895	2,297	6,899	170,115	24 13 2
1900	2,266	7,764	189,448	24 8 0
1901	2,215	7,834	208,040	26 11 1
1902	2,283	8,263	218,612	26 9 1
1903	2,559	8,754	213,412	24 7 7
1904	2,783	8,827	225,400	25 10 8
1905	2,842	9,119	242,405	26 11 8
1906	3,437	9,550	250,905	26 5 5
1907†	3,324	10,052	262,786	26 2 10
1908†	3,462	10,331	298,740	28 18 0
1909†	3,808	10,254	311,580	30 7 9

* Not available. † Including green peas cultivated on farms.

One branch of gardening—tomato culture—has not received sufficient attention. As this cultivation entails light labour, and is particularly remunerative, the vegetable could be grown by persons unaccustomed to heavier labour on farms, and it is surprising that the industry should have been so long neglected. In 1909 there were 549 acres under cultivation for tomatoes, which yielded 68,260 cases, or 124 cases per acre.

MINOR CROPS.

In addition to the crops already specified, there are small areas under various kinds of products—as, for instance, pulse and gourd crops.

Pulse.—During the year 1909 there were 411 acres under crop for peas and beans, which gave a total yield of 12,522 bushels, being 30·5 bushels per acre.

These peas and beans were grown mainly as hard fodder for horses and pigs, and must not be confounded with the peas and beans cultivated in the kitchen and market gardens for table use as vegetables.

Gourd Crops.—The area devoted to pumpkins and melons during the year 1909 was 6,394 acres, and the yield 19,245 tons, being 3 tons per acre. The principal places of cultivation are the maize districts and the metropolitan county.

Pumpkins are grown for table use as vegetables, but are also used extensively as fodder for cattle and pigs. The number of acres under gourd-vines mentioned above is somewhat below the true figures, as crops of pumpkins and melons are sometimes raised in orchards and vineyards amongst the fruit-trees and vines, and particulars respecting the production are not returned.

Other branches of agriculture have hardly been considered, although, no doubt, as the rural population increases, their importance will gain recognition. There are indications that more attention is being paid to them. Little has been attempted in the cultivation of any of the following, although experiment has proved that they can all be raised in the State:—Olives, castor-oil plant, flax, ramie fibre, hops, silk, coffee, and cotton. The varieties of the soil and of climate are so diverse that almost any kind of produce can be raised, and there is every reason for hope for future extension.

The olive has been grown successfully in South Australia, and could be cultivated in districts with suitable temperature in New South Wales.

The castor-oil plant grows luxuriantly in the humid coastal districts.

A most valuable crop is flax, and more persistent efforts should be made to introduce it.

Hops are cultivated to a slight extent in the neighbourhood of Orange; other districts adapted for its cultivation are Armidale, Goulburn, and Cooma.

MACHINERY AND LABOUR.

The estimated value of the machinery in use in farming operations is £3,042,364, distributed as follows:—

Division.	Area farmed.	Value of machinery.	Value, per acre.
	acres.	£	£
Coastal Division	318,043	414,188	1·30
Tableland	387,008	488,685	1·26
Western Slopes	1,401,658	1,203,019	·86
Western Plains and Riverina	1,052,526	885,024	·84
Western Division	15,629	51,448	3·29
Total	3,174,864	3,042,364	·96

The following statement gives a comparative view of the machinery used and the labour employed in agricultural pursuits during the last six years:—

Year.	Area farmed.	Machinery.	Persons Employed.			Machinery, per acre.	Labour per acre.
			Males.	Females.	Total.		
	acres.	£				£	No.
1904 ...	2,672,973	2,459,346	63,111	5,742	68,853	·92	·022
1905 ...	2,838,081	2,557,262	62,419	5,008	67,427	·90	·024
1906 ...	2,824,211	2,645,980	63,448	5,715	69,163	·94	·021
1907 ...	2,570,137	2,599,156	57,327	5,385	62,712	1·01	·024
1908 ..	2,713,971	2,851,974	55,324	5,409	60,733	1·05	·022
1909 ...	3,174,864	3,042,364	59,541	4,770	64,311	·96	·020

The above table shows how little advance has been made in the relative extent of machinery and labour applied to each acre of land under crops in the last six years. In stating the number of persons employed in agricultural pursuits, it must be remarked that these figures are obtained

from returns supplied by the farmers; but in cases where agriculture is carried on conjointly with other rural industries, it is difficult to differentiate, and persons may be returned as engaged in agriculture in one year and in other rural occupations in another year. The decrease shown in agricultural labour is probably explainable in this manner. The labour employed in all rural industries will be discussed in a subsequent chapter.

IRRIGATION.

The provision of an adequate water supply for other than domestic purposes is essential to the well-being of all primary industries, and particularly in a country which is liable to dry seasons which affect extensive areas. Much of the area of the State receives an adequate and regular rainfall, but over a considerable extent of country all the factors exist which are requisite to success in agricultural pursuits, except a constant water supply. The recognition of the fact that the area suitable for cultivation might be largely extended by a comprehensive system of water conservation and irrigation has led the State to undertake various schemes in detached groups, which will constitute portion of the ultimate irrigation system necessary to serve the whole State. The following statement shows the extent of the work which has been successfully effected under the provisions of the Water and Drainage and other Acts as regards existing Artesian bores:—

Number of Bores.

Bores.	Flowing.	Pumping.	Total.	Total Depth.
For Public Watering-places, Artesian Wells, &c....	105	28	133	feet. 264,540
For Country Towns Water Supply	3	.....	3	4,352
For Improvement Leases	48	2	50	83,175
Total, Government Bores..	156	30	186	352,067
Private Bores	209	42	251	351,578

The average depth is 1,893 feet in the case of Government bores, and of private bores, 1,400 feet. The total area watered by artesian bores is estimated at 3,000,000 acres, which, though a large extent of country, yet, when related to the whole land surface of New South Wales, represents only 1.5 per cent. of the total area.

But the exploitation of the artesian supply by no means represents the extent of the efforts at water conservation. New South Wales possesses, outside the boundaries of the artesian supply, river basins eminently adapted for storage purposes. The most important work of this type is the scheme now being carried to completion to conserve and utilise the vast quantities of water which annually flow down the Murrumbidgee River. The estimated cost of this work is over one and a half million pounds, and the plan is to conserve the water by the erection of a huge storage dam at Barren Jack, then to divert the water to serve the land between the Murrumbidgee and Lachlan River valleys. The catchment area for this reservoir, which will hold 33,613 million cubic feet, is 5,000 square miles. The construction of a weir some 200 miles below the dam will divert the water to serve the land on each side of the river. An area of three million acres will be irrigated ultimately, but the land on the north side of the Murrumbidgee, to be immediately watered, represents one and a half million acres.

In addition to this extensive scheme, which is under construction, much preliminary work has been done in the way of surveys, observations, gaugings, and exploration, to discover the extent to which the waters of other rivers may be conserved. On the Lachlan River a gauging station has been established at Wyangala, where it is estimated that a dam 155 feet high would impound 12,000 million cubic feet of water; and there is another station at Canowindra, on the Belubula.

Under the Water Rights Act of 1902, administered by the Public Works Department, all rivers, creeks, and lakes are vested in the Minister, who has power to grant licenses for private schemes of conservation. Up to the end of June, 1910, 2,131 applications were made for licenses.

To utilise the water thus conserved through the efforts of the Government and by private enterprise, several irrigation areas have been devised. The Government has an irrigation farm at Yanco, and the most extensive private scheme is at North Yanco, where 60 miles of channel are supplied from an anabranch of the Murrumbidgee River. At the Yanco experiment farm the first irrigation was undertaken only in October, 1908, and satisfactory results are anticipated. During the year ended 31st March, 1910, there were 129 acres under cultivation, of which 61 acres were planted with grapes and other fruit-trees.

Other irrigation settlements have been established at Hay and at Wentworth. In the Wentworth irrigation area, 1,645 acres have been subdivided into 46 farms; 529 acres were under cultivation during 1909-10, including 283 acres devoted to fruit-trees, oranges, grapes, sultanas, and currants. In this area is instituted a dual scheme of irrigation and intense cultivation of small areas, and the results of the experiment will be regarded with interest, and of exceptional value from the educational standpoint.

The proposals for the further development of water conservation include the sinking of seven new bores in areas already investigated, in addition to the various works now under construction, which embrace bores in six districts, and the consequent reticulation work; the extension of the public watering-places, the drainage of swamp areas, and the development of shallow bores in the Pilliga Scrub.

EXPERIMENT FARMS.

With the combined objects of obtaining a thorough knowledge of local conditions and of affording an education in agriculture on scientific and local bases, the Government has established agricultural colleges, experimental farms, and farmers' experiment plots, and has engaged agricultural lecturers and experts to guide and assist the farmers.

The agricultural and experiment farms in operation during 1909 numbered fifteen, covering a total area of 14,644 acres, of which 4,052 acres were under cultivation during 1909, the areas for various crops being as follows:—

	acres.
Cereals and hay	1,953
Fruit-trees and vines	333
Green fodder	1,023
Sown grasses and forage plants	684
Root and other crops	109

Much of the remaining area allocated to these farms is cleared only partially; portion of it is under fallow, and portion ready for ploughing.

The Hawkesbury Agricultural College provides accommodation for resident students, and gives theoretical and practical instruction in a three-years' course, which embraces every department of agriculture. In

addition, experimental research work is conducted in connection with cereal and other crops, and with fertilisers, and soil culture, &c. Necessarily, all subsidiary branches of farm labour are taught, including blacksmithing, carpentering, sheep-killing, bee-keeping, and other allied occupations. Special courses of instruction are also provided, notably at the Farmers' Winter School and Public School Teachers' Summer School. During the year ended March, 1910, there were 188 regular students in attendance, and 1,360 acres out of the total of 3,551 acres attached to the College were under cultivation.

Experiment farms have been established in various districts of the State, and the experiments and education vary with the particular climatic conditions. Such farms have been established in the following centres:—Wagga, Wollongbar, Bathurst, Berry, Grafton, Coolabah, Cowra, Glen Innes, Pera Bore, Moree, Howlong, Raymond Terrace, Yanco, Nyngan, and Dural. The farms at Moree and Coolabah were closed in 1910, the operations of the latter being transferred to Nyngan. At Wagga farm, the specialties are the growing of seed wheats, and fruits for drying, and the breeding of dairy cattle (notably Jerseys) and swine. The area under cultivation is 993 acres out of 3,228 acres.

At Bathurst, particular attention has been devoted to the orchard, and to mixed farming and irrigation. A demonstration area of 180 acres has been set apart, the object of which is to show the profit, on commercial lines, accruing from the results of past experiments.

The Berry Stud Farm, as in the case of Wollongbar, on the North Coast, has offered education and assistance to dairy-farming.

At Howlong and at Raymond Terrace, viticultural stations are affording instruction and advice in regard to vine-growing.

At Yanco, preparations are being made by experimental irrigation work, for the advent of large numbers of settlers on the area adjacent to Barren Jack Reservoir, which, when completed, will serve to irrigate a large extent of territory in the vicinity.

At Moree and Pera Bore, experiments have been made with bore water in agriculture, and with methods of neutralising the chemical constituents in the water.

The value of plant and machinery on all these farms during 1909 was estimated at £9,926, being £2 8s. per acre under crop; 136 persons were employed, in addition to 280 students in attendance, making a total labour force of 416 persons, representing approximately one person to every 10 acres cultivated. The value of the produce was assessed at £22,715, but as these farms are for experimental purposes only, the estimated monetary value of the products does not by any means represent its whole value.

STATE ADVANCES TO SETTLERS.

To meet the demand for capital, and impelled by the necessity for affording assistance to settlers whose prospects had been affected by the prevalent drought conditions, the Government inaugurated a system in 1899, by which advances are made to settlers on the basis of the French *Crédit Foncier*, at rates of interest and of repayment which are intended to be available for the benefit of every settler offering adequate security. The original Act of 1899 received several amendments, till finally, in 1906, the powers of the Advances to Settlers Board have been transferred to the Commissioners of the Government Savings Bank of New South Wales, and the maximum and minimum advances are fixed at £2,000 and £50 respectively.

Up to 31st December, 1909, 8,456 advances, total £1,362,854, were made to settlers, averaging £161 per loan, of which 4,833, representing £566,102, have been repaid, leaving 3,623 advances current at that date, the average balance of principal being £220 per loan.

The operations of the bank, relating to advances to settlers, for the last three years, were as follow :—

Year.	No.	Total Amount.	Average.
<i>Advances made.</i>			
		£	£
1907	424	106,025	250
1908	822	273,292	332
1909	778	300,228	386
<i>Repayments.</i>			
1907	777	84,255	.....
1908	963	104,725	.....
1909	666	95,554	.....
<i>Balances Repayable.</i>			
1907	3,652	423,511	116
1908	3,511	592,078	169
1909	3,623	796,752	220

The Commissioners are empowered to make advances upon mortgages of land in fee-simple or of land held under conditional purchase or lease, settlement purchase or lease, or homestead grant or selection. The advances are made for the purposes of repaying existing encumbrances, or of purchasing land or in order to effect improvements, utilise resources, or build homes.

The conditions under which loans are repayable vary according to the circumstances of the individual case; the maximum loan to any one person is £2,000; the rate of interest ranges between 4½ and 5 per cent.; and the maximum period for repayment is thirty-one years.

It is clear that the system is intended to confer, and does afford material assistance to men who contemplate settling on the land, as well as to those already engaged in agriculture; but necessarily this system was not initiated to meet every instance in which farmers might require credit, usually in relatively small amounts, and for a comparatively short period.

To effect this object it seems necessary that a comprehensive system should be established in New South Wales, on the lines of a co-operative bank, or borrowers' association, with the sole object of obtaining cheap credit for its members, with adequate protection of their security on the plan of the co-operative loan organisations which have been introduced satisfactorily in Europe, and of which the best example exists in the Raiffeisen banks of Germany, which represent the latest stage in the evolution from the early Crédit Foncier system.

The history of this evolution ranges through Germany, France, Italy, Switzerland, and Austria-Hungary; the first stage in the evolution is found in the German Landschaften established in the middle eighteenth century, when, in 1769, Frederick the Great obliged all noblemen holding land in Silesia to unite to form a loan society, to cope with an enormous withdrawal of capital from agriculture. The whole property of the members was collectively liable for each loan made; and, passing the first stage, when the association merely brought intending borrowers in touch with possible lenders, later associations became true land banks, borrowing

money by the issue of debentures secured by mortgages and by the joint liability of members, and issuing loans on mortgage to the landed proprietors composing the membership.

In the middle nineteenth century, after inquiry into the German institutions then existing, a law was passed in France, in 1852, by which the *Crédit Foncier de France* was established. This is on the principle of a joint-stock company, the funds being constituted partly of share capital and partly by the proceeds of debentures, and moneys received on deposit. The money thus obtained is used for loans on real property, the reduction of existing encumbrances, and the general development of agriculture, but advances are also made to public bodies and departments. The loans are usually for long terms, with easy repayments and low interest rates, and shareholders benefit by any profits.

This system did not, however, fulfil all the needs of the community, and in 1861, *La Société du Crédit Agricole* was formed also on the lines of a joint-stock company, to provide cheap loans for the smaller class of agriculturists; the Government guaranteed a minimum interest of 4 per cent. for five years for shareholders. Debentures were issued, deposits received, and current accounts opened; but the society's business was mainly discounting, and partly lending. The endorsement of an agent of the society or of a joint-stock company or local association working under its auspices was required on all negotiable instruments drawn by agriculturists; and, by the addition of the society's signature, the borrower could deal with the Bank of France. As a loan institution the society made advances on single signatures of the borrower, secured by material pledges. In 1876 it ceased operations, having failed to confine its business to agricultural requirements.

In 1884, Belgium established *Comptoirs Agricoles* for the purpose of dealing with loan proposals as agencies of the general savings banks, the deposits in which are used by the National Bank for the development of commerce. This system also has failed to obtain a full measure of success, because it could not reach easily its intended clients, nor could it secure satisfactory agents.

Following these attempts on joint stock lines came institutions established on a co-operative basis, classed after their founders, as *Schulze-Delitzsch* societies and *Raiffeisen* societies. The former societies were established with the primary objects of relieving borrowers from usurious interest rates, and of mitigating the tendency to ask for State aid. The first society was established in 1850, and within forty years the aggregate loans of existing *Schulze-Delitzsch* societies reached £100,000,000.

The first beneficiaries under this system were urban artizans, but its assistance was soon extended to agriculturists, who now form the bulk of its membership. Originally, the bases of the system were unlimited liability and a substantial share capital; but the condition of unlimited liability has now ceased to be essential. Seven members, male or female, with one share each, may form a society, of which the operations are, in practice, usually confined to a definite area. The articles of association are in accordance with law, and the society is controlled by an elected administrative directorate. The law requires a compulsory audit periodically. The funds are constituted partly by shares and partly by capital obtained from ordinary banks by discount or deposit; debentures are not issued. Advances are now made to members only, credit is personal, based on surety, and no control is exercised in regard to the uses to which loans are put. The advances are of three types, being (a) advances on bills drawn by members and guaranteed by other members; (b) cash credits or overdrafts on the borrower's bond, with collateral security; and

(c) ordinary bills of exchange. The period of loan does not usually exceed the period for which deposits are made, but loans are renewable; repayment by instalments is not acceptable; interest rates are about 7 per cent.; dividends are allowed to members, assisting to encourage deposits. The system has achieved considerable success and an extensive influence, but as its business is not exclusively agricultural development, it does not represent a perfect rural bank.

In 1864 the first Credit Union was established by Raiffeisen. The basis was unlimited liability of members; the share principle was rejected as uselessly hampering rural development; but being made compulsory by law, the share values were made as low as possible, and only one share was allowed to each member. Operations are confined to a limited area, thus ensuring intimacy amongst the members. The specific objects include the supply of raw materials, the sale of products, purchase of commodities, implements, and machinery for members, and assistance towards land purchase. All adults may become members, all administrative services of the elected directorate are gratuitous. Funds are supplied by borrowed capital, the share capital being insignificant; interest is paid to lenders or depositors, ranging about $4\frac{1}{2}$ per cent.; loans are made to members, usually on personal security for any term, and sureties are required; mortgage and cash credits are granted, but in every case the solvency of the borrower must be assured, and the loans are granted for useful and productive purposes. The loans are usually small; interest is generally 5 per cent., and a commission is charged which, in the aggregate, covers cost of administration. Financially, societies of this type have achieved marked success. Unlike the Schulze-Delitzsch societies, no dividends are paid, except trifling rates on shares. Net profits form a reserve fund, which, when large, may be drawn upon for some object of general utility.

The societies are grouped in unions under a central union for all Germany, which also promotes life assurance and assurance against loss; central banks have been established to regulate the finances of the unions, and in recent years the State has made advances of Government money available to the central banks of both the Schulze-Delitzsch and the Raiffeisen systems.

Other banks have been established which unite the characteristics of both these systems, of which an example is found in the Austrian Raiffeisen unions and in the Luzzatti Popular banks and Wollemborg Agricultural Banks in Italy; thence the principles of co-operative agriculture have spread to other quarters of the world, and it remains for New South Wales to introduce the system to Australia.

PASTORAL INDUSTRY.

THE whole stock of the infant colony in 1788 consisted of 1 bull, 4 cows, 1 calf, 1 stallion, 3 mares, 3 foals, 29 sheep, 12 pigs, and a few goats. No systematic record of the arrival of live stock was kept in the early days of settlement; but it appears that in the period between Governor Phillip's landing and the year 1800 there were some slight importations, chiefly of sheep from India. The numbers of each class of stock at various periods up to 1850, prior to the separation of Victoria, were as follow:—

Year.	Horses.	Cattle.	Sheep.	Swine.
1788	7	6	29	12
1792	11	23	105	43
1796	57	227	1,531	1,869
1800	203	1,044	6,124	4,017
1825	6,142	134,519	237,622	39,006
1842	56,585	897,219	4,804,946	46,086
1850	132,437	1,738,965	13,059,324	61,631

In 1851 the severance of Victoria from the mother State reduced the number of stock considerably; the separation of Queensland at the close of 1859 involved a further reduction, and at the end of the latter year the numbers of each kind of live stock within the existing boundaries of New South Wales were 251,497 horses, 2,408,586 cattle, 6,119,163 sheep, and 180,662 pigs. The following table shows the number of stock at the end of each decennial period from 1861 to 1901 inclusive, and for each of the last five years:—

Year.	Horses.	Cattle.	Sheep.	Swine.
1861	233,220	2,271,923	5,615,054	146,091
1871	304,100	2,014,888	16,278,697	213,193
1881	398,577	2,597,348	36,591,946	213,916
1891	469,647	2,128,838	61,831,416	253,189
1901	486,716	2,047,454	41,857,099	265,730
1905	506,884	2,337,973	39,506,764	310,702
1906	537,762	2,549,944	44,132,421	243,370
1907	578,326	2,751,193	44,461,839	216,145
1908	591,045	2,955,934	43,370,797	215,825
1909	604,784	3,027,727	46,202,578	237,845

In addition to the live stock shown above, at the end of 1909, there were 57,877 goats, 1,482 camels, 33 donkeys, 97 mules, and 362 ostriches. Since 1891 the sheep have diminished in number to the extent of over 15 millions, and swine by over 15,000, but the other classes of stock show increases—

horses 135,000, and cattle 864,000. In order to indicate the districts in which the changes in the flocks and herds have occurred the following table has been prepared, showing the number of live stock in each district at the end of various years since 1896. The returns for years prior to 1896 were compiled on a different basis, so that it is impossible to make any comparison with them; but the figures given will be sufficient to show that the chief decrease in sheep has been in the Western districts, where the ravages of drought are felt most keenly. A striking feature of the table is the large increase both of dairy and ordinary cattle in the coastal district:—

District.	1896.	1901.	1906.	1909.
SHEEP—				
Coastal District	964,759	1,097,471	1,316,580	1,493,518
Table-lands	7,036,733	8,850,069	8,842,352	8,924,311
Western Slope	10,968,344	11,671,524	11,675,425	12,506,324
Western Plains and Riverina ..	18,541,961	14,578,523	15,998,936	16,662,356
Western Division	10,806,993	5,522,953	6,299,068	6,615,569
Unclassified .. .. .	.....	127,559	.....	.....
Total	48,318,790	41,857,099	44,132,421	46,202,578
ORDINARY CATTLE—				
Coastal District	612,797	667,282	836,055	1,029,491
Table-lands	541,493	500,974	502,227	580,926
Western Slope	403,294	305,789	393,230	455,504
Western Plains and Riverina ..	199,817	114,327	224,677	300,387
Western Division	68,579	41,247	93,985	95,041
Total	1,825,960	1,629,619	2,055,124	2,461,349
DAIRY COWS IN MILK—				
Coastal District	238,530	284,099	355,233	430,473
Table-lands	82,487	70,224	66,745	61,412
Western Slope	46,578	39,732	49,002	48,328
Western Plains and Riverina ..	26,372	19,790	21,178	23,385
Western Division	6,216	3,990	2,657	2,780
Total	400,183	417,835	494,820	566,373
HORSES—				
Coastal District	160,285	160,704	171,485	187,763
Table-lands	115,314	112,294	110,077	115,254
Western Slope	108,493	110,845	130,947	157,064
Western Plains and Riverina ..	85,622	77,650	97,009	113,823
Western Division	40,922	25,223	23,244	30,880
Total	510,636	486,716	537,762	604,784

SHEEP.

The suitability of the land for grazing was undoubtedly the means of inducing the early colonists to enter upon pastoral pursuits, and the relative ease with which operations could be conducted, in comparison with the difficulties attendant upon other primary industries, confirmed their choice.

In the year 1795 Captain Macarthur, one of the first promoters of sheep-breeding in New South Wales, had accumulated a flock of a thousand sheep; but, not satisfied with the natural increase of his flocks, he sought also to improve the quality of their fleeces. By good fortune in 1797 Captain Waterhouse arrived from the Cape of Good Hope with a number of very fine Spanish-bred sheep, which he sold to various stockowners. With the advantage of this superior stock, Macarthur gradually improved his strain, and in a few years obtained fleeces of very fine texture.

Prior to the nineteenth century the production of the finest wool had been fostered chiefly in Spain, so that woollen manufactures were necessarily somewhat restricted, and it was at this favourable period that Macarthur arrived in England with specimens of the wool obtained from his finest sheep, proving conclusively the capabilities of Australia as a wool-producing country.

In this way he established a small trade, which, as Australian wool rose in public estimation, gradually increased until it has reached its present enormous dimensions; so that, although not the first to introduce merino sheep into Australia, there is no doubt that to him is due the credit of having been the first to prove that the production of fine wool could be made a profitable industry in this country.

As might have been anticipated, natural conditions in Australia have somewhat varied the character of the Spanish fleece. The wool has become softer and more elastic, and while diminishing in density it has gained in length, so that the weight of the fleece has increased. The quality of the wool, on the whole, has improved under the influence of the climate, and Australian wool is now probably the best in the world.

The following table shows the number of sheep at the close of various years, and illustrates the progress of sheep-breeding in New South Wales:—

Year.	Sheep.	Year.	Sheep.	Year.	Sheep.
1861	5,615,054	1891	61,831,416	1905	39,506,764
1866	11,562,155	1896	48,318,790	1906	44,132,421
1871	16,278,697	1901	41,857,099	1907	44,461,839
1876	25,269,755	1902	26,649,424	1908	43,370,797
1881	36,591,946	1903	28,656,501	1909	46,202,578
1886	39,169,304	1904	34,526,894		

Divided into five periods, the rates of increase are—

1861-71	annual increase	11.2	per cent.
1871-81	„ „	8.4	„
1881-91	„ „	5.4	„
1891-1901	„ decrease	4.0	„
1901-1909	„ increase	1.24	„

Considering the unimproved condition of the pasturage over a great portion of its area, it was apparent in 1891 that the State was overstocked, and graziers restricted the natural increase of their flocks by breeding only from the better-class ewes. In addition, the following season proved unfavourable, so that during the year there was a large decrease in the number of sheep. The adverse season of 1892 was, unfortunately, the forerunner of many others, so that with the exception of 1900, the whole of the years up to 1902 were distinctly unfavourable to the pastoral industry. The climax was reached in 1902, which was particularly disastrous, as the number of sheep fell from 41,857,099 at the beginning of the year to 26,649,424 at its close, when the total flocks were over 35 millions less than in 1891.

The decrease in the total was accompanied by great changes in the sizes of individual flocks, and these changes may be traced in the following table, which gives an approximate classification of the flocks, for various years from 1891 to 1909. In the former year there were only 13,187 holdings, but in 1909 the number had increased to 24,501, although the sheep had decreased by nearly 16 millions. It is significant that while in 1891 there were 73 holdings which each carried over 100,000 sheep, the number of such in 1901 was 12, and in 1909 only 10. The sheep in flocks of over 20,000 comprised 62 per cent. of the total in 1891, but only 32 per cent. in 1909. The greatest change has occurred since 1894, when a very large number of sheep perished,

and pastoralists realised that the best method of meeting droughty seasons lay in the subdivision of their large flocks :—

Year.	Size of Flocks.								Total.
	1 to 1,000.	1,001 to 2,000.	2,001 to 5,000.	5,001 to 10,000.	10,001 to 20,000.	20,001 to 50,000.	50,001 to 100,000.	100,001 and over.	
NUMBER OF SHEEP.									
1891	2,794,751	2,979,168	5,498,942	4,943,221	7,056,580	15,553,774	12,617,206	10,392,774	61,831,416
1894	2,863,963	3,050,107	5,264,700	5,114,109	6,814,167	15,125,070	10,366,501	8,348,653	56,977,270
1897	3,169,977	2,710,546	4,511,676	4,625,398	6,230,663	12,468,278	6,972,298	3,264,061	43,952,897
1900	3,471,775	3,266,864	4,725,271	4,824,604	6,206,402	10,636,291	4,564,309	2,066,475	40,020,506*
1901	3,797,114	3,560,849	5,519,008	5,210,117	6,666,429	10,552,373	4,835,547	1,688,103	41,857,099*
1902	3,988,724	2,530,865	3,867,402	3,862,638	5,329,081	5,039,100	1,297,333	684,331	26,649,424
1903	3,580,943	2,649,465	3,956,302	3,770,657	5,201,133	7,120,873	1,489,395	706,688	28,656,501*
1904	3,808,700	3,158,219	4,722,130	4,307,553	6,004,591	8,750,595	3,096,192	678,909	34,526,894
1905	4,066,162	3,737,648	5,746,793	4,580,497	6,522,915	10,001,922	3,769,240	1,081,587	39,506,764
1906	4,397,818	4,327,447	6,715,317	5,287,191	6,966,647	10,637,410	4,409,600	1,390,991	44,132,421
1907	4,712,734	4,587,219	7,245,911	5,337,076	7,388,940	9,392,069	4,359,321	938,569	44,461,839
1908	4,846,637	4,616,175	7,613,697	5,657,418	6,852,672	8,813,625	3,747,775	1,222,798	43,370,797
1909	4,968,081	4,903,584	8,258,996	6,062,339	7,403,259	9,483,248	3,932,843	1,190,228	46,202,573

* Includes sheep in unclassified flocks, 208,515 in 1900; 127,559 in 1901; and 181,045 in 1903.

NUMBER OF HOLDINGS.

1891	7,606	1,954	1,696	686	495	491	186	73	13,187
1894	8,402	2,013	1,633	716	441	473	148	60	18,891
1897	9,376	1,767	1,383	651	436	406	104	21	14,144
1900	10,646	2,152	1,462	676	431	349	67	14	15,797
1901	11,800	2,351	1,722	729	465	344	76	12	17,499
1902	14,074	1,715	1,186	534	371	163	20	6	18,074
1903	13,154	1,791	1,263	528	368	238	23	6	17,361
1904	12,732	2,146	1,498	601	429	296	43	5	17,755
1905	13,089	2,560	1,816	638	464	338	57	7	18,949
1906	13,894	2,925	2,127	757	484	357	69	11	20,624
1907	15,923	3,148	2,384	835	520	320	66	7	23,173
1908	16,641	3,177	2,431	796	485	295	58	10	23,893
1909	16,737	3,341	2,657	857	523	315	61	10	24,501

After allowing for the causes which naturally impede the increase, such as the demands of the meat supply, the requirements of the neighbouring States, and the losses occurring from causes other than drought, it is found that the rate of annual increase has been as high as 20 per cent., so that it is possible for the flocks of New South Wales to double themselves within four years, and actual experience shows that this rate of increase occurred in 1904 and in several of the earlier years. During the period of five years from 1861 to 1866 there was an increase of 100 per cent.; and the flocks of the State were again doubled in the eight years from 1866 to 1874, and in the thirteen years from 1874 to 1887.

The export and import of sheep during the last ten years is shown below. The figures do not exactly represent the trade in sheep, being somewhat in excess of the truth, since sheep are often transferred from one State to another for the convenience of station-holders, for better pasturage, and for business purposes :—

Year.	Exported.	Imported.	Year.	Exported.	Imported.
	No.	No.		No.	No.
1900	754,849	656,699	1905	1,619,842	798,026
1901	1,237,875	413,409	1906	1,951,183	1,138,620
1902	1,700,164	360,306	1907	2,475,210	1,569,767
1903	761,546	1,521,278	1908	1,849,416	1,539,481
1904	883,156	662,691	1909	1,866,527	1,592,527

Until recent years the demand for sheep for local consumption was so small compared with the supply that it did not appreciably affect the increase of the flocks of the State. This, however, is not now the case; the annual demand for food consumption within the State is nearly 8 per cent. of the number of sheep depastured—equal to about five-eighths of the cast. The "cast" implies the number of sheep which, from breeding or wool-growing considerations, it is more profitable to kill than to feed. Expressed as a percentage of the whole of the sheep depastured, the "cast" is a variable quantity, which, however, may be taken approximately as $11\frac{1}{2}$ per cent. The number required for export in a frozen or preserved state, and for tallow, brings up the total killed per annum to nearly 14 per cent. of the entire flocks.

The following table gives the number of sheep in each State of Australia at the end of 1909, together with the proportion of the total owned in each:—

State.	Sheep.	Proportion owned in each State.
	No.	per cent.
New South Wales	46,202,578	50·40
Victoria	12,937,983	14·11
Queensland	19,593,791	21·37
South Australia	6,475,431	7·07
Western Australia	4,731,737	5·16
Tasmania	1,734,761	1·89
Australia... ..	91,676,281	100·00

The introduction of sheep and cattle into the State was forbidden for many years, lest the flocks and herds might be contaminated by scab and various diseases prevalent in other countries; but these restrictions were removed at the beginning of the year 1888, and pure-bred sheep are now imported from the United Kingdom, the United States, and Germany. So far, the principal breed imported has been the merino; but Lincoln, South Downs, Vermont, Shropshire, and other well-known breeds have been introduced. It is, however, to Tasmania that pastoralists chiefly look for their stud stock, several breeders in that State having made a speciality of raising merinos from the finest strains procurable in the world. The stud stock bred in the island State possess generally a fleece of strong character—an essential feature for the maintenance of weight and quality in those districts of New South Wales where the natural tendency is towards extreme fineness. The sheep imported during 1909 for breeding purposes numbered 10,682, valued at £61,869, of which 3,825, worth £24,451, came from Tasmania.

The breeds of sheep in New South Wales are the Merino, Lincoln, Leicester Downs, and Romney Marsh, and crosses of the long-wooled breeds, principally with the merino. In addition, the Suffolk Downs sheep, which appear to be pre-eminently adapted for farming purposes, and for the production of a weighty lamb for the export trade, were introduced into the New England district during 1904. At the close of 1909, the respective numbers of merino, and cross-breeds were as shown below, the figures including only those in flocks of 100 and over.

Class of Sheep.	Rams.	Ewes.	Wethers.	Lams.	Total.
Merino	550,151	19,626,422	10,440,995	8,629,096	39,246,664
Cross-breeds	101,010	2,056,777	1,249,592	1,490,528	4,897,907
Total	651,161	21,683,199	11,690,587	10,119,624	44,144,571

Of the coarse-woolled sheep the largest proportion are Lincolns and their crosses with merino. The proportion of English and cross-bred sheep has increased considerably. Twenty-six years ago the proportion of coarse-woolled and cross-breds was only $3\frac{1}{2}$ per cent., and for fully ten years after it stood at about $2\frac{1}{2}$ per cent. In 1893 the proportion rose to 4.3 per cent., and with the development of the meat export trade it has now advanced to over 11 per cent.

The climate of New South Wales is so mild that there is no necessity for housing stock during the winter months, except on the highlands. The sheep are kept either in paddocks or under the care of shepherds, though on some stations they are both shepherded and paddocked.

The advantages of the paddock system are numerous, and are now fully recognised by stockowners. Sheep kept in paddocks thrive well, and are less liable to foot-rot and other diseases; they grow a better fleece and the wool is sounder and cleaner; the sheep increase in size and live longer; in addition, the expenses of the station are less than if worked under any other system.

It has been found that the percentage of lambing is higher among sheep which are paddocked. The percentage of lambs in Australia is, however, far lower than that experienced in the United Kingdom, where the ratio on account of twin lambs has been known to exceed 160 per cent., and over a series of years, amongst the Suffolk flocks, considerably exceeds 130 per cent., which result is doubtless due to the much greater care bestowed on English sheep at the lambing season.

During the year 1909, 12,207,969 lambs were dropped, and 11,054,605 marked. The total increase of sheep in the State was 2,831,781, the details relating to which are summarised below:—

Sheep on 31st December, 1908	...	...	...	...	...	43,370,797
Lambs marked during 1909	...	...	...	...	...	11,054,605
Sheep imported during 1909	...	...	...	...	...	1,592,527

56,017,929

Killed for local consumption (excluding stations, &c.)	...	1,943,271
„ for food on stations, &c.	...	1,289,452
„ for meat preserving...	...	1,061,276
„ for freezing for export	...	1,589,138
„ for boiling-down	...	76,848
Lambs killed for local consumption	...	430,501

Total killed, 1909	...	6,390,486
Exported during 1909	...	1,865,527
Loss by ordinary mortality, and missing	...	1,559,338

Total deduction ... 9,815,351

Sheep on 31st December, 1909 ... 46,202,578

Increase on previous year ... 2,831,781

WOOL.

The wool-clip is the most important item of production of New South Wales, and the prosperity of the State very largely depends upon the wool market. The following table shows the export trade in New South Wales wool in quinquennial periods since 1860, and illustrates the growth of this important industry during the fifty years. The weights given represent the actual exports, washed and greasy wool being taken together:—

Period.	Quantity.	Total Value.	Period.	Quantity.	Total Value.
	lb.	£		lb.	£
1860-1864	95,792,401	8,635,588	1895-1899	1,282,457,338	44,108,894
1865-1869	172,503,856	12,362,527	1900-1904	1,071,168,177	41,765,526
1870-1874	301,441,632	19,778,734	1905	266,359,306	12,362,515
1875-1879	525,964,323	28,687,368	1906	291,183,294	14,186,562
1880-1884	802,842,533	37,175,364	1907	332,363,433	17,241,213
1885-1889	1,056,290,069	42,896,802	1908	319,248,070	13,526,466
1890-1894	1,530,993,123	48,925,721	1909	350,869,237	14,656,977

These figures do not show the production clearly; nor can the fluctuations in the market value be ascertained from them, as the relative quantities of greasy and washed wool vary each year. In order to indicate clearly the production, washed wool should be stated as in the grease. This has been done for the purposes of the following table, and, adding to the exports already shown the quantity of wool used locally in woollen mills, the total production, stated as in the grease, was as follows:—

Period.	New South Wales Wool.—Quantity.			Value.		
	Exported.	Used locally.	Total production.	Exported.	Used locally.	Total.
	lb.	lb.	lb.	£	£	£
1876-1880	713,518,500	4,878,500	718,397,000	31,076,350	222,248	31,298,598
1881-1885	939,605,700	4,208,300	943,814,000	40,381,381	181,711	40,563,092
1886-1890	1,290,919,900	3,861,100	1,294,781,000	44,641,559	130,821	44,772,380
1891-1895	1,808,007,600	5,622,400	1,813,630,000	48,893,015	131,565	49,024,580
1896-1900	1,401,170,000	7,070,000	1,408,240,000	42,782,417	201,276	42,983,693
1901-1905	1,295,317,300	5,466,700	1,300,784,000	46,495,828	223,303	46,719,131
1906	324,605,600	835,400	325,441,000	14,186,562	26,637	14,213,199
1907	366,501,900	944,100	367,446,000	17,241,213	26,490	17,267,703
1908	337,128,954	1,000,046	338,129,000	13,526,466	29,282	13,555,748
1909	369,734,800	1,073,200	370,808,000	14,656,977	33,330	14,690,307

The values given in this table represent the export prices free on board, and, consequently, differ from those on a later page, which show the values at the place of production.

No distinction was made prior to 1876 between washed and greasy wool, so that any attempt to estimate the production is surrounded with difficulty. From the information available, however, it would appear that the production in 1861 was 19,254,800 lb., and in 1871 the weight in grease was 74,401,300 lb. An estimate of the production for the intervening years is rendered impossible because in several instances the greater portion of the wool clip was held over for a considerable period, awaiting an opportunity for shipment.

The above figures at once show how greatly the prosperity of the State is affected by fluctuations in the market value of its staple export, for, taking the average annual export during the past five years at 339,000,000 lb., a rise of 1d. per lb. in the market price means an addition of £1,410,000 to the wealth of the people.

As the season for exporting wool does not fall wholly within the calendar year, the exports for any year consist partly of that season's clip and partly of the previous clip. The following table shows the total number of sheep shorn during each year since 1891:—

Year.	Sheep and Lambs shorn.	Year.	Sheep and Lambs shorn.	Year.	Sheep and Lambs shorn.
1891	57,702,702	1898	41,220,440	1905	37,145,686
1892	55,602,188	1899	34,569,924	1906	41,704,814
1893	54,090,109	1900	38,400,241	1907	40,338,700
1894	54,234,997	1901	40,417,263	1908	41,912,546
1895	45,695,657	1902	27,639,804	1909	43,356,535
1896	45,997,583	1903	26,994,870		
1897	42,429,750	1904	31,804,772		

The largest number was shorn in 1891, when 14,346,167 more sheep were shorn than in 1909. Although the number has since decreased the weight of the fleece has increased.

Of late years considerable attention has been given to the question of breeding, and the result is seen in the steady improvement in the weight of fleeces. In spite of the bad seasons experienced, the wool clips have been very good, and notwithstanding the greatly diminished flocks, the production of wool has not by any means decreased proportionately. The improvement in the weight of fleece will be apparent from a consideration of the following table:—

Period.	Average number of Sheep depastured annually.	Average annual production of Wool.	Average yield of Wool per Sheep.
	No.	lb.	lb.
1881-85	36,020,700	188,762,800	5.24
1886-90	47,746,200	258,956,200	5.42
1891-95	56,297,400	362,726,000	6.44
1896-1900	41,949,300	281,648,000	6.71
1901-05	34,239,300	260,517,000	7.61
1906-09	44,541,900	350,456,000	7.87

From these figures it appears that the average weight during the last four years has been nearly 8 lb. A striking proof of the increased weight of the fleece is afforded by a comparison of the figures relating to the periods ending with 1890 and 1909. In the earlier period the sheep numbered 3,204,000 more, yet the average annual production of wool was 91,500,000 lb. less than that of the later term.

Formerly almost all the wool was shipped on the grower's account and sold in London, but of late years over 80 per cent. has been sold in the local markets, as purchasers have realised the advantages of buying on the spot. The attached table exhibits the growing tendency to operate in Sydney:—

Seasons.	Total deep-sea exports (from Sydney and Newcastle).	Sydney Wool Sales.		
		Offered.	Sold at auction and privately.	Proportion of deep-sea exports sold in Sydney.
	bales.	bales.	bales.	per cent.
1887-88--1889-90	1,318,351	764,520	580,000	43.99
1890-91--1892-93	1,823,085	1,093,766	886,541	48.63
1893-94--1895-96	2,158,220	1,382,517	1,241,858	57.54
1896-97--1898-99	1,971,513	1,318,579	1,294,373	65.65
1899-1900--1901-02	1,766,922	1,330,747	1,309,915	74.14
1902-03--1904-05	1,549,598	1,232,819	1,252,817	80.85
1905-06--1907-08	2,356,811	1,969,061	1,939,916	82.31
1908-09--1909-10	1,846,825	1,475,604	1,574,908	85.28

Of the wool sold in Sydney during the last season, approximately 644,322 bales were purchased for the Continent of Europe, 99,676 bales for the English trade and for London on speculative account, 25,265 bales for America, 17,577 bales for Japan, China, and India, and 31,490 bales by local scourers. The average prices per bale realised in Sydney and in London during the last eight years are shown in the following table:—

Year.	Average Prices per Bale realised.					
	In Sydney.			In London.		
	£	s.	d.	£	s.	d.
1902-3	12	8	8	13	2	6
1903-4	12	17	1	13	10	0
1904-5	12	17	1	14	10	0
1905-6	13	19	6	15	15	0
1906-7	14	3	0	17	0	0
1907-8	13	9	0	16	10	0
1908-9	11	15	10	13	5	0
1909-10	13	14	4	15	0	0

In comparing the prices of the Sydney and London markets, it should be noted that in the former the season ends with June and in the latter with December, also that a much larger proportion of the lower qualities of wool, such as pieces, bellies, locks, &c., are sold in Sydney. As freight and other charges amount to 25s. or 30s. per bale, it is evident that the Sydney market is the more favourable to producers.

The prices realised for the different descriptions of wool at the Sydney wool sales during the last two seasons are given below:—

Description.	Superior.		Good.		Medium.		Inferior.	
	1908-9.	1909-10.	1908-9.	1909-10.	1908-9.	1909-10.	1908-9.	1909-10.
	per lb.	per lb.	per lb.	per lb.	per lb.	per lb.	per lb.	per lb.
Greasy—	d.	d.	d.	d.	d.	d.	d.	d.
Fleece ..	12 to 15½	13 to 18	9½ to 11½	10½ to 12½	8½ to 9	8½ to 10	6½ to 8	6½ to 8½
Pieces ..	10 .. 12	10½ .. 12	8½ .. 9½	9 .. 10½	7 .. 8½	7½ .. 8½	5½ .. 6½	6½ .. 7½
Bellies ..	7½ .. 9½	8 .. 10	6 .. 7½	6½ .. 7½	4½ .. 5½	5½ .. 6½	3½ .. 4½	4 .. 5
Lambs ..	11 .. 16	12 .. 16½	8½ .. 10½	9 .. 11½	6½ .. 8½	7½ .. 8½	4 .. 6½	5 .. 7½
Crossbred—								
Fine ..	10 .. 12½	12 .. 18½	8 .. 9½	10½ .. 11½	6 .. 7½	9 .. 10½	4½ .. 5½	7½ .. 8½
Coarse ..	7½ .. 8½	8½ .. 10	6½ .. 7½	7½ .. 8½	5½ .. 6½	6 .. 7	4 .. 5	4½ .. 5½
Scoured—								
Fleece ..	20 .. 23½	21½ .. 25½	18½ .. 19½	19½ .. 21½	17 .. 18½	17½ .. 19½	15 .. 16½	6 .. 17
Pieces ..	18 .. 21	18½ .. 22½	16½ .. 17½	16½ .. 18½	14½ .. 16½	14½ .. 16½	13 .. 14½	13 .. 14½
Bellies ..	15 .. 18	16 .. 21½	14½ .. 15½	15½ .. 17½	11½ .. 12½	12 .. 13½	9½ .. 11½	10½ .. 11½
Locks ..	10 .. 15	11½ .. 18½	9 .. 9½	10½ .. 11½	7½ .. 8½	8½ .. 10	6 .. 7½	17½ .. 8½

In order to illustrate the fluctuations in value, the following table has been compiled, which gives a fairly correct idea of the average value realised for greasy wool in the London market at each of the principal sales during the last ten years:—

Year.	1st Series.	2nd Series.	3rd Series.	4th Series.	5th Series.	6th Series.
	per lb.	per lb.	per lb.	per lb.	per lb.	per lb.
	d.	d.	d.	d.	d.	d.
1901	8½	8	8½	8½	9½	...
1902	10½	10½	11½	11½	12	12½
1903	12½	12	11½	11	11	10½
1904	11.	10	10½	11	11½	12
1905	12	11½	12½	12½	12½	12½
1906	12	12½	12½	12½	12	12½
1907	12½	12½	12½	12½	12½	11½
1908	11½	10	9½	10½	10½	11½
1909	11½	11½	12	12	12½	12½
1910	12½	12½	12½	12½	12½	12½

During the period covered by the table, Sydney-shipped greasy wool realised 12 $\frac{3}{4}$ d. to 8d. The maximum prices were realised during 1907, when the sales twice closed at 12 $\frac{3}{4}$ d. per lb., and also in 1910. The 1901 sales opened at 8 $\frac{1}{4}$ d., and the prices rose gradually to 9 $\frac{1}{2}$ d. at the close, and in the succeeding year to 12 $\frac{3}{4}$ d. In 1903 there was a gradual fall to 10 $\frac{1}{2}$ d., but at the last sales in 1904 prices again reached 12d. This value was more than maintained during the next three years. During 1908 the value fell to 9 $\frac{3}{4}$ d., but rose to 11 $\frac{1}{4}$ d. at the close of the year. In 1909 prices opened at 11 $\frac{1}{2}$ d. and gradually rose to 12 $\frac{3}{4}$ d. in 1910, finishing at the last sales at 12 $\frac{3}{4}$ d.

CATTLE.

Though still a very important industry, cattle-rearing does not now occupy so prominent a position as formerly. The number of cattle returned at the close of various years since 1861 as per the subjoined table, shows that there was a great decline in the total from 1876 to 1886, that the number steadily increased from 1886 to 1896, when it stood at 2,226,163, and then owing to unfavourable seasons the numbers decreased until in 1902 the total was only 1,741,226. Since 1902 the number has steadily increased, and in 1909 reached a total of 3,027,727.

Year.	Cattle.	Year.	Cattle.	Year.	Cattle.
1861	2,271,923	1891	2,128,838	1904	2,149,129
1866	1,771,809	1896	2,226,163	1905	2,337,973
1871	2,014,888	1901	2,047,454	1906	2,549,944
1876	3,131,013	1902	1,741,226	1907	2,751,193
1881	2,597,348	1903	1,880,578	1908	2,955,934
1886	1,367,844			1909	3,027,727

The principal breeds of cattle now in the State are the Durham or Shorthorns, Hereford, Devon, Black-polled Ayrshire, Alderney, Jersey, and crosses from these various breeds. At the close of the year 1909 the numbers of each breed, as far as could be ascertained, were:—

Breed of Cattle.	Pure and Stud.	Ordinary.	Total.
	No.	No.	No.
Shorthorn	82,080	599,068	681,148
Hereford	38,760	165,785	204,545
Devon	14,194	38,173	52,367
Black-polled	2,168	15,484	17,652
Red-polled	271	1,170	1,441
Ayrshire	9,222	60,315	69,537
Alderney	1,506	4,301	5,807
Holstein	639	2,681	3,320
Jersey	13,410	57,217	70,627
Guernsey	468	5,727	6,195
Brittany	10	290	300
Highland	27	—	27
Red Lincoln	9	—	9
Total	162,764	950,211	1,112,975
Crosses (first crosses)—			
Shorthorn—Hereford ... ..	.....	304,514	304,514
" —Devon ... ..	.....	169,173	169,173
Hereford — " ... ..	.....	66,718	66,718
Ayrshire—Shorthorn ... ..	.....	209,165	209,165
Alderney — " ... ..	.....	700	700
Black-polled— " ... ..	.....	31,876	31,876
Red-polled— " ... ..	.....	130	130
Jersey— " ... ..	.....	73,013	73,013
Jersey—Ayrshire ... ..	.....	524	524
Holstein—Shorthorn ... ..	.....	120	120
Unknown ... ..	.....	677,392	677,392
Total ... ..	.....	1,533,325	1,533,325
Total—All Breeds	162,764	2,483,536	2,646,300

There were in addition, 381,427 head not classified, which were for the most part in the towns.

There has been an appreciable increase in the number of milking cattle, many of the farmers in the coastal districts having turned their attention to dairying, with very satisfactory results. The number of milch cows at the close of the year 1909 was 566,378.

The breed of cattle throughout the State is steadily improving—a result due to the introduction of good stud stock; to greater attention and care exercised in selection and breeding, more particularly for dairying purposes; and to culling and keeping in paddocks. In order to encourage and assist dairy farmers in improving breeds the Government have imported some high-class stud bulls from England; there are now thirty-three of these bulls.

Importations from Europe and America were discontinued for many years owing to the natural dread of the stockowners lest their herds should contract diseases which have devastated the cattle of other countries. The prohibition was removed in 1888, and cattle are now admitted after quarantine; the number so admitted in 1909 was eight—four bulls and four cows, and in addition, a number of stud cattle were imported from the other States, principally for dairying purposes.

The breeding cows in 1909 numbered 726,892. Australian cattle, probably because they live in a more natural state, are, on the whole, remarkably free from milk-fever and other complaints attendant on calving.

HORSES.

At an early period the stock of the country was enriched by the importation of some excellent thoroughbred Arabians from India, so that Australian horses have acquired a high reputation. The number in the State steadily increased from 1883 to 1894, when it stood at 518,181; but, owing to the drought, the total in 1895 fell to 499,943. In 1896 there was an increase to 510,636, attributed to increased settlement, more breeding, and fewer sales for export. By successive decrements the number of horses had fallen in 1902 to 450,125; since that year there has been a substantial increase, and the number at the end of 1909 reached over six-hundred thousand.

The following table shows the number of horses at the end of various years since 1860:—

Year.	Horses.	Year.	Horses.	Year.	Horses.
1861	233,220	1891	469,647 ✓	1904	482,663
1866	274,437	1896	510,636	1905	506,884
1871	304,100	1901	486,716	1906	537,762
1876	366,703	1902	450,125	1907	578,326
1881	398,577	1903	458,014	1908	591,045
1886	361,663			1909	604,784

For purposes of classification the horses have been divided into draught, light-harness, and saddle horses, and the number of each particular kind, so far as could be ascertained from returns collected by the Stock Department, was as follows:—

Class.	Thoroughbred.	Ordinary.	Total.
Draught	27,045	153,993	181,038
Light-harness	15,777	123,447	139,224
Saddle	29,739	166,692	196,431
Total... ..	72,561	444,132	516,693

Returns relating to the remaining 88,091 animals were not received.

New South Wales is specially suitable for the breeding of saddle and light-harness horses, and it is doubtful whether in these particular classes the Australian horses are anywhere surpassed. On many of the large holdings thoroughbred sires are kept, and the progeny combine speed with great powers of endurance. Fed only on the ordinary herbage of the country, these animals constantly perform long journeys across difficult country, and become hardy and sure-footed to a high degree. It is the possession of these qualities which gives them great value as army remounts.

The approximate number of animals fit for market is as follows:—

Draught	---	...	...	---	---	---	27,401
Light-harness	...	---	---	---	---	---	24,800
Saddle	---	---	---	---	---	---	32,402
Total	---	---	---	---	---	---	84,603

Of these it is estimated that about 24,795 are suitable for the Indian and other markets.

There is a considerable export trade annually to countries outside Australasia, the number in 1909 being 1,528, valued at £45,051. The total sent from the State during the year numbered 10,044, with a value of £373,309. Little notice need be given to the exports to other States of the Commonwealth and to New Zealand, as the great majority of the animals are racehorses journeying to and fro to fulfil engagements. The following table shows the export trade since 1900:—

Year.	Country to which Exported—						Total.
	Australian States.	New Zealand.	India.	South Africa.	Japan.	Other Countries.	
HORSES—NUMBER.							
1900	11,395	199	1,688	7,714	.....	1,983	22,979
1901	11,282	235	998	6,300	2	943	19,760
1902	9,437	74	834	2,918	.....	664	13,927
1903	7,120	398	1,249	145	1	1,292	10,205
1904	10,181	138	1,771	169	66	1,275	13,600
1905	8,109	123	1,922	8	1,631	1,760	13,553
1906	7,229	61	1,311	49	43	971	9,664
1907	6,777	29	873	11	141	1,218	9,049
1908	8,664	45	1,535	13	187	1,117	11,561
1909	8,489	27	821	1	1	705	10,044
VALUE.							
1900	£ 183,705	£ 4,376	£ 18,521	£ 124,485	.....	£ 57,578	£ 388,665
1901	205,619	6,398	17,076	81,204	100	19,873	330,270
1902	191,163	1,852	15,044	38,116	.....	15,566	261,741
1903	210,437	11,849	21,309	7,775	15	31,889	283,274
1904	248,130	8,040	32,074	3,727	7,975	32,235	332,181
1905	229,318	9,688	42,774	1,780	26,495	44,227	354,282
1906	239,516	7,272	34,859	1,721	1,918	29,220	314,506
1907	236,242	3,141	20,255	524	8,585	36,360	305,107
1908	301,273	2,556	32,606	841	10,634	30,546	378,456
1909	325,836	2,422	20,123	100	60	24,768	373,309

For many years India has offered the best market for horses. The demand for horses in that country is considerable, and Australia is a natural market from which supplies are derived. Since 1904 there have also been some large consignments to Japan, but the trade shows great fluctuations.

Of the exports to other countries, nearly all go to the Straits Settlements, Java, Fiji, or other islands in the Pacific.

With a view to improving the breed of horses, the principal Agricultural Societies have recently decided that all stallions entered as such for prizes at agricultural shows, shall be subject to veterinary examination with a view to detecting hereditary unsoundness. Moreover a number of people vitally interested in this industry are in favour of an Act of Parliament, insisting on the examination of all stallions used for breeding purposes, and forbidding the use of any animals which have not obtained the necessary certificate. Recognising the importance of improving the breed, and of further developing the industry, the Government has lately established a Chair of Veterinary Science at the Sydney University.

VALUE OF PASTORAL PRODUCTION.

The grazing industry constitutes the greatest source of wealth in the State, consequently information relating to pastoral returns and income is most desirable. But unfortunately it is not possible to ascertain with precision the values of land occupied for pastoral purposes, nor can the worth of the improvements be estimated.

From the nature of the industry, it is difficult to arrive at a correct estimate of the return from pastoral pursuits as at the base of production; but taking the Sydney prices as a standard, and making due allowance for incidental charges, such as agistment, railway carriage or freight, and commission, the value in 1909 would appear as £19,040,000. The returns received from the different kinds of stock are shown in the following table, for various years since 1891:—

Year.	Annual Value of Pastoral Production.					
	Sheep for Food.	Wool.	Cattle.	Horses.	Total.	Per Head of Population.
	£	£	£	£	£	£ s. d.
1891	2,367,000	9,996,000	1,535,000	827,000	14,725,000	12 17 10
1896	1,745,000	8,619,000	990,000	420,000	11,774,000	9 5 4
1901	2,071,000	8,425,000	1,374,000	682,000	12,552,000	9 3 6
1902	1,446,000	7,152,000	1,322,000	811,000	10,731,000	7 13 10
1903	2,327,000	8,361,000	1,339,000	750,000	12,777,000	9 0 0
1904	2,206,000	9,133,000	1,347,000	687,000	13,373,000	9 4 11
1905	2,753,000	12,103,000	1,533,000	724,000	17,113,000	11 11 6
1906	3,514,000	13,792,000	1,592,000	845,000	19,743,000	13 0 9
1907	3,222,000	16,459,000	1,574,000	1,026,000	22,281,000	14 6 7
1908	3,034,000	12,680,000	2,032,000	1,100,000	18,846,000	11 17 3
1909	2,742,000	13,128,000	1,878,000	1,292,000	19,040,000	11 14 5

The value of production in 1907 was the highest on record, although the number of stock depastured was not nearly so great as in some of the earlier years, and it is satisfactory to note the rapid recovery which has been made since 1902. The improved position has been attained through the

advancement in prices of pastoral products, especially of wool, which fortunately has been concurrent with a greatly increased production.

In order to exhibit clearly the extent of the variation in the prices of pastoral products, the following table has been prepared, showing the price-level in each year since 1901. The figures are calculated on the average prices of exports to the United Kingdom free on board ship at Sydney. The prices of 1901, represented by the number 1,000, are taken as a basis.

Article.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
Wool—greasy ...	1,111	1,233	1,200	1,300	1,433	1,553	1,272	1,200
„ scoured ...	1,258	1,396	1,415	1,396	1,509	1,585	1,258	1,245
Tallow ...	1,170	1,045	910	937	1,031	1,303	1,176	1,135
Leather ...	1,017	1,067	983	1,078	1,183	1,150	1,017	972
Frozen Beef ...	1,000	1,000	813	1,000	875	1,010	1,008	1,250
„ Mutton ...	1,000	1,000	1,214	1,031	1,125	1,055	1,021	1,063
Skins—Hides ...	1,000	1,013	1,092	1,250	1,375	1,316	1,053	950
„ Sheep, with wool ...	1,209	1,246	1,266	1,541	2,000	1,863	1,175	1,279
All articles ...	1,096	1,125	1,112	1,192	1,316	1,354	1,122	1,137

MEAT SUPPLY.

Slaughtering for food is permitted only in places licensed for the purpose, such establishments being very numerous. In the metropolitan district there are 55, and in the country districts, 1,194 slaughter-yards, employing respectively 573 and 4,720 men; in all 1,249 establishments and 5,293 men.

The consumption of meat cannot be stated separately for the metropolitan and country districts, as several of the large country slaughter-yards supply the metropolitan market. For New South Wales generally, it is estimated that the average annual consumption of mutton per inhabitant is about 97 lb., of beef 139 lb., and of pork and bacon 11 lb., making a total consumption of 247 lb.

The following table shows the number of stock slaughtered during 1909:—

Stock.	Number slaughtered in 1909.		
	Metropolitan.	Country.	Total.
Sheep ...	2,226,527	3,733,458	5,959,985
Lambs ...	96,694	333,807	430,501
Bullocks ...	76,465	166,685	243,150
Cows ...	25,257	103,448	128,705
Calves ...	29,195	10,826	40,021
Swine ...	95,097	107,206	202,303

These figures represent the stock killed for all purposes. Of the sheep and lambs, 3,663,224, including 1,289,452 killed on stations and farms, represent the local consumption; 1,061,276 sheep were required by meat-preserving establishments; 1,589,138 for freezing for export; and 76,848 were boiled down for tallow. All the cattle killed, except 18,468 treated in the meat-preserving works and 2,482 exported frozen, were required for local consumption; and of the swine, 111,781 were cured as bacon, and 90,522 killed for ordinary consumption.

The following table shows the slaughter of stock in the various establishments for ten years:—

Year.	Establishments.	Hands Employed.	Sheep.	Lambs.	Cattle.			Swine.
					Bullocks.	Cows.	Calves.	
1900	1,770	4,853	4,197,026	162,487	239,038	139,113	21,841	227,379
1901	1,642	4,675	4,372,016	147,117	202,795	113,374	19,654	243,311
1902	1,548	3,685	4,502,513	133,337	164,916	99,450	23,765	238,352
1903	1,702	3,991	3,180,408	96,712	157,173	103,471	14,555	178,157
1904	1,593	3,961	2,927,078	131,458	211,839	72,778	14,472	232,955
1905	1,563	4,570	3,959,577	324,054	236,306	64,833	19,713	239,096
1906	1,522	4,391	4,229,407	252,648	237,722	94,955	26,200	281,650
1907	1,352	4,553	4,882,206	302,851	242,261	109,263	28,518	238,488
1908	1,216	4,056	4,840,367	361,125	233,006	114,689	28,879	210,319
1909	1,249	5,293	5,959,985	430,501	243,150	123,705	40,021	292,303

The prices of stock show great variation in the course of a year. In cross-bred sheep the average monthly values at the Homebush sale-yards during 1909 ranged from 5s. 6d. paid for medium wethers, during December, to 20s. 9d. paid in September for extra prime wethers, while in merino sheep the highest value reached was 21s. 0d. and the lowest 5s. 6d. The prices of sheep vary not only with the class and condition of the animal and the number on the market, but also in accordance with the season and the growth of the fleece. The average values of good cross-bred wethers and ewes during 1909 were 11s. 0d. and 9s. 0d. respectively: merinos were practically equal to cross-breds in value. Good lambs were worth about 8s. 4d. throughout the year. In cattle, the prices ranged from £13 1s. paid in September for extra prime bullocks to £2 19s. 3d. in January for medium cows. The general average for good bullocks was about £7 12s. 1d., and for good cows about £5 2s. 8d. Best beef averaged about 26s. 3d. per 100 lb. Porkers brought an average price of 35s. 9d. during the year, while baconers realised an average of 59s. 10d., going up to 66s. 6d. in February.

THE MEAT EXPORT TRADE.

The table below shows the growth of the export trade in New South Wales meat since 1891. The export of frozen meat varies, of course, with the seasons. In regard to mutton, the State is rather at a disadvantage, as the qualities of the merino as a food are not greatly appreciated in the English market. It has been proved, however, that a great expanse of country is suited to the breeding of large-carcass sheep, and pastoralists have lately turned their attention in this direction, with a view to securing a larger share in the meat trade of the United Kingdom:—

Year.	Frozen or Chilled Meat.				Preserved Meat.	
	Beef.	Mutton.	Total Weight.	Total Value.	Weight.	Value.
1891-1895	quarters.	carcasses.	cwt.	£	lb.	£
1896-1900	204,211	5,442,044	1,495,893	986,760	67,062,284	867,028
1901-1903	91,780	1,808,613	2,635,587	1,822,139	64,606,006	1,000,153
		cwt.	875,166	1,041,768	27,992,773	600,433
1904	4,201	207,721	211,922	290,065	7,251,911	135,073
1905	19,580	463,567	483,147	641,216	9,634,636	199,224
1906	33,158	512,799	545,957	655,122	5,944,333	132,729
1907	18,971	553,558	572,529	712,738	7,120,597	142,467
1908	7,100	415,712	422,812	557,717	8,107,565	167,105
1909	9,488	518,795	528,283	578,566	16,237,004	277,198

The following statement, compiled from the British trade returns, shows the imports of frozen mutton into the United Kingdom during the past seven years, and also the quantity imported from New South Wales.—

Year.	Total Imports.		Imports from New South Wales.	
	Quantity.	Value.	Quantity.	Value.
	cwt.	£	cwt.	£
1903	4,016,622	7,826,062	37,502	73,406
1904	3,494,782	6,861,531	67,200	130,839
1905	3,811,069	7,336,490	244,033	470,482
1906	4,082,756	7,645,935	341,963	609,275
1907	4,578,523	8,687,407	391,500	723,148
1908	4,335,771	8,140,029	315,998	564,326
1909	4,761,838	7,839,195	448,011	715,764

Below is given a statement of the average wholesale prices obtained during the past ten years for English and frozen mutton sold in London. From an examination of the figures, it would seem that the class of people requiring locally-grown mutton in England is quite distinct from that using frozen mutton :—

Year.	Best English.	New Zealand.	Australian.	River Plate.	Year.	Best English.	New Zealand.	Australian.	River Plate.
	d.	d.	d.	d.		d.	d.	d.	d.
1900	7 $\frac{3}{4}$	4	3 $\frac{1}{2}$	3 $\frac{1}{2}$	1905	7 $\frac{1}{2}$	4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$
1901	7	3 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{4}$	1906	7 $\frac{1}{2}$	4	3 $\frac{3}{8}$	3 $\frac{1}{2}$
1902	7	4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$	1907	7 $\frac{1}{2}$	4 $\frac{3}{8}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$
1903	7 $\frac{1}{2}$	4	3 $\frac{1}{2}$	3 $\frac{1}{2}$	1908	7 $\frac{3}{8}$	4 $\frac{1}{2}$	3 $\frac{1}{2}$	3 $\frac{1}{2}$
1904	7 $\frac{1}{4}$	4 $\frac{1}{2}$	4	3 $\frac{3}{4}$	1909	6 $\frac{3}{8}$	3 $\frac{1}{2}$	3	3 $\frac{1}{8}$

In addition to the export of frozen beef and mutton, there has grown up in the last few years a considerable trade in frozen rabbits and hares, details of which appear in the chapter on "Dairying and Minor Industries."

OTHER PASTORAL PRODUCTS AND BY-PRODUCTS.

The minor products arising from pastoral occupations include tallow, edible fat and lard, skins and hides, furs, horns, hoofs, bones, and hair. Some of these are more specially discussed in the chapter on manufactories and works, and need only brief mention here.

The production of tallow has declined considerably since 1897, consequent on the decrease in the number of live stock depastured, and the falling-off in the market value of the article. In earlier years the production was much greater than for any of the years shown hereunder, for in each of the years 1894 and 1895 it reached nearly 54,000 tons :—

Year.	Estimated Quantity of Tallow.		
	Produced.	Locally consumed.	Exported.
	tons.	tons.	tons.
1900	22,221	6,768	15,453
1901	22,536	6,206	16,330
1902	12,559	4,884	7,675
1903	11,760	5,710	6,050
1904	17,654	5,897	11,757
1905	24,758	5,681	19,077
1906	24,396	5,838	18,558
1907	24,527	5,788	18,739
1908	21,665	5,881	15,784
1909	32,056	5,860	26,196

For many years the exports of skins and hides have reached a large value, while recently there has been a considerable export of rabbit and hare skins. The following table shows the value of skins exported during the last ten years :—

Year.	Value of Skins and Hides exported.					
	Cattle.	Horse.	Sheep.	Rabbit and Hare.	Other.	Total.
	£	£	£	£	£	£
1900	90,861	248	146,540	4,182	118,882	360,713
1901	158,953	170	202,407	13,291	199,954	574,775
1902	108,152	2,854	344,399	38,094	330,597	824,096
1903	85,332	2,200	242,307	38,233	193,524	561,596
1904	113,977	*.....	160,425	105,952	82,224	462,578
1905	187,517	1,391	361,212	162,783	133,006	845,909
1906	171,868	428	405,340	316,929	144,562	1,039,127
1907	203,081	1,932	534,332	241,099	164,448	1,144,892
1908	242,405	3,066	378,162	163,457	229,891	1,016,981
1909	289,153	2,145	495,042	220,748	423,653	1,430,741

* Included with cattle skins.

The other products of the pastoral industry are of minor importance, as leather is classified as a product of the manufacturing industry. The values of the exports of minor products for the last ten years were as follow :—

Year.	Value of Minor Products Exported.					
	Hoofs, Horns, and Bones.	Hair.	Edible Fat—Lard.	Glue Pieces—Sinews.	Furs.	Total.
	£	£	£	£	£	£
1900	20,128	8,155	630	10,346	2,465	41,724
1901	14,947	11,420	1,049	6,047	1,441	34,904
1902	12,713	8,226	657	5,054	909	27,559
1903	10,567	7,387	2,601	7,424	917	28,896
1904	14,856	9,655	4,340	6,538	1,979	37,368
1905	15,559	12,102	4,509	5,484	3,645	41,299
1906	15,374	15,543	4,489	8,119	4,637	48,162
1907	13,174	11,325	3,923	10,510	1,757	40,689
1908	17,904	13,204	5,441	8,678	1,338	46,565
1909	15,184	17,275	5,731	6,328	1,566	46,084

NOXIOUS ANIMALS.

The only large carnivorous animal in Australia at all dangerous to stock is the dingo, or native dog; but graminivorous animals, such as kangaroos, wallabies, hares, and rabbits, are deemed by the settlers equally noxious. The rabbits are the greatest pests; at one period over 100 million acres were infested with them, and 25 million rabbits were destroyed in one year.

Rabbits first found their way into this State from Victoria, where some were liberated about fifty years ago in the Geelong district. Their presence first attracted serious attention in 1881, when complaints were heard in the south-west of this country of the damage done. They multiplied so rapidly that, in 1882, they were to be met on most of the holdings having frontages to the Murray. Attempts to cope with them under the Pastures and Stock Protection Act were ineffectual, and the "Rabbit Nuisance Act" was passed. This Act provided for the compulsory destruction of rabbits by the occupiers of the land, who were to receive a subsidy from a fund raised by an annual tax upon stockowners, but the fund soon proved inadequate, and from the 1st May, 1883, to the 30th June, 1890, when the Act was repealed, it was supplemented by £503,786 from the Consolidated Revenue. The tax upon stockowners yielded £831,457, and landowners and occupiers contributed £207,864, so that the total cost during the whole period exceeded £1,543,000.

The Rabbit Act of 1890 repealed the 1883 Act and those provisions of the Pastures and Stock Protection Act relating to rabbits. It also provided, as occasion required, for the proclamation of Land Districts as "infested," and for the construction of rabbit-proof fences. From the 1st July, 1890, to the 30th April, 1902, the State expenditure under this Act was £41,620, nearly all of which has been devoted to the erection of rabbit-proof netting. From May, 1902, to December, 1903, the expenditure was £10,548.

Under the Pastures Protection Act of 1902 the State was divided into districts, the protection of the pastures being supervised by a board elected in each district by the stockowners. The Pastures Protection Boards are empowered to levy a rate upon the stock, and to erect rabbit-proof fences on any land, take measures to ensure the destruction of all noxious animals and pay rewards of all such destruction. The State expenditure on rabbit extermination since the establishment of the Boards has consisted mainly of payments to the Railway Commissioners for the maintenance of rabbit-proof fences, amounting to £7,591 to the end of June, 1910.

In order to prevent the spread of the pest, and also with a view of assisting in its destruction, fences have been erected by the Government of the State at numerous places. The longest of these traverses the western side of the railway line from Bourke, *via* Blayney and Murrumburrah, to Corowa, in the extreme south of the State, a distance of 612 miles, the Railway Commissioners undertaking the work of supervision. On the border between New South Wales and South Australia there is a fence which extends from the Murray northwards, a distance of about 350 miles. On the Queensland border a rabbit-proof fence has been erected between Barrington and the river Darling, at Bourke, a distance of 84 miles; while another has been erected at the joint expense of the Governments of Queensland and New South Wales, from Mungindi to the Namoi River, a distance of about 115 miles. The total length of rabbit-proof fences erected by the State up to 31st December, 1909, was, approximately, 1,332 miles, at a cost of £69,888; by private persons, 76,605 miles, at a cost of £4,343,377; and by Pastures Boards, 91 miles, at a cost of £2,860.

The chief means adopted for the destruction of the pest are poisoning and trapping, but it has long been recognised that these methods are inadequate to cope with the evil. In 1906 Dr. Danysz, an eminent French scientist, claimed to have discovered a disease which was fatal to rabbits and easily propagated amongst them, while proving harmless to other animals or to birds. A liberal offer was made by the pastoralists of the State for the introduction of the disease, and the use of Broughton Island, near Newcastle, was granted by the New South Wales Government for the purpose of experiments with animals and birds, under the supervision of a medical officer of the Health Department. The experiments were continued during

1907, and in November of that year the Supervising Medical Officer reported that although the microbe used could be made to infect small animals, there was no reason to apprehend danger from its practical use, but the efficacy of the virus as a destroyer of rabbits had not been demonstrated.

Although the rabbit has a commercial value both as a food and for the sake of its skin, the return furnished is but a poor compensation for its enormous inroads upon pastures.

WATER CONSERVATION AND PUBLIC WATERING PLACES.

The necessity of providing a constant water supply for domestic use, and also for stock in the dry portions of the interior of the State, induced the Government to devote certain funds to the purpose of bringing to the surface such supplies as might be obtained from the underground sources which exist in the tertiary drifts and the cretaceous beds which extend under an immense portion of the area of the State.

The probability of the existence of underground water had long been a subject of earnest discussion, but doubts were set at rest in 1879 by the discovery of an artesian supply of water on the Kallara run, at a depth of 140 feet. The Government then undertook the work of searching for water, and since the year 1884 the sinking of artesian wells has been conducted in a systematic manner, under the direction of specially-trained officers.

The deepest bore is that at Dolgelly, on the road from Moree to Boggabilla, where boring has been carried to a depth of 4,086 feet; this well yields a supply of 637,124 gallons per diem. The largest measured flow obtained from Government bores is from the Boomi, near Moree; the depth of this well is 4,008 feet, and the flow 1,133,300 gallons per diem. The State flowing bores yield over 68,587,000 gallons of water per day, and in addition there are pumping bores which supply 459,600 gallons per day; but in many cases the flow is estimated only, and in others no data are available.

Watering places are established on all the main stock routes of the State, and consist of tanks, dams, wells, and artesian bores. At the close of 1909 there were 428 tanks and dams or reservoirs, 94 wells, and 69 artesian bores. Except at those dams and reservoirs which are of large extent and capacity, stock are not allowed direct access to the tanks, but are watered at troughs which are filled by means of service reservoirs, into which the supply is raised by various methods—steam, horse, or wind power. From the wells the water is mostly drawn by whims and self-acting buckets.

The "Artesian Wells Act of 1897" provides that any occupier of land, or any group of occupiers, may petition the Minister to construct an artesian well, and the necessary distributing channels. The petitioners are required to transfer to the Crown an area, not exceeding 40 acres, embracing the site for the bore, and to pay such charges as may be assessed by the Land Board, which shall not exceed the yearly value to each occupier of the direct benefit accruing to his land from the supply of water, but such charges must not exceed 6 per cent. per annum on the cost of the works. Provision is also made for the Minister to take the initiatory steps when a group of settlers are not in agreement; it is enacted that a two-thirds majority, occupying two-thirds of the area affected, shall rule, and that the minority must come into the scheme and pay proportionately with the others under the provisions of this Act. Thirteen bores watering an area of 381,230 acres have been sunk.

Much has been done in the way of artesian boring by private enterprise. As far as can be ascertained, 271 private bores have been undertaken in New South Wales, of which 20 were failures, and 2 are in progress. Information concerning the daily flow is not available, as in many cases this has

not been gauged at all, whilst in the others the measurements cannot be regarded as reliable.

The "Water and Drainage Act of 1902" authorises the construction by the Government of works for affording supplies of water, for irrigation or stock purposes, and for draining swamp lands. The works are administered by Trusts constituted under the Act. The trustees make an assessment to cover maintenance, 4 per cent. interest and 2 per cent. sinking fund, and to liquidate the capital cost of the work at the end of twenty-eight years. Under this Act trusts for the supply of water for stock purposes and irrigation have been constituted in connection with 46 artesian wells and 5 other schemes, embracing an area of 3,500,000 acres. Eighteen trusts have been constituted for the purpose of draining swamp lands, of an aggregate area of 81,533 acres.

DAIRYING INDUSTRY.

DAIRY FARMING.

THE dairying industry has advanced considerably during recent years, and is now a very important factor in the wealth and prosperity of the State. At an early period in colonial history the first dairy farm for the manufacture of butter was established on the Nepean River. At a more recent period, dairying as a profitable pursuit was conducted mainly on the South Coast, in the Shoalhaven and Illawarra districts. For many years its progress was slow, and it was not until the introduction of the creamery and factory system that any great development occurred. With the manufacture of butter by machinery, and the perfection of the cold-storage system, the real business of dairying may be said to have begun.

The first creamery and factory were established in the South Coast district, and for some years dairying was confined mainly to this district; but eventually it was firmly established in the North Coast, especially on the Clarence and Richmond Rivers, which may now be regarded as the centre of the industry. Expansion has taken place to a smaller extent on the rivers between the Clarence and Hunter, and as a whole, the advantages of the northern coastal rivers have induced a large migration from the South Coast district.

A glance at the following figures will show the great strides made by the North Coast district, and the rapidity with which it has outstripped the South in regard to production.

Year.	Dairy Cows in Milk at end of year.	Total yield of Milk.	Butter made.	Cheese made.	Bacon and Hams cured.
North Coast.					
	No.	gallons.	lb.	lb.	lb.
1899	145,583	.....	15,020,490	22,680	2,115,216
1909	321,394	123,272,963	44,594,248	125,019	3,657,432
South Coast.					
1899	123,641	.....	13,351,904	2,179,073	2,903,973
1909	109,079	39,946,519	8,711,603	4,161,745	4,572,931

In this table the North Coast includes the North Coast, Hunter, and Manning districts, while the South Coast includes the South Coast and the county of Cumberland. It will be seen that, except in cheese-making and bacon, the north is far in advance of the south; but with regard to the figures relating to butter, it should be borne in mind that a large proportion of the milk from the South Coast furnishes the supply of the metropolis. The quantity of milk for each purpose in the two districts during 1909 was:—

	North Coast.	South Coast.
	gallons.	gallons.
Used on farms for making—		
Butter	2,670,254	2,372,344
Cheese	71,939	1,964,203
Separated, or sent to creamery or factory ...	114,176,925	24,600,538
Balance sold for other purposes	6,353,845	11,009,434
	123,272,963	39,946,519

The quantity of milk used for making butter on farms was 2,670,254 and 2,372,344 gallons respectively in each district, while 114,176,925 and 24,600,538 gallons were either separated or sent to the creamery or

factory. Of the latter portion, 819,271 and 5,039,443 gallons respectively were treated for cheese, sweet cream, condensed milk, and for the metropolitan market, so that 116,027,908 and 21,933,439 gallons were used for making butter. Comparing these figures with the production of butter, it is found that, during 1909, 100 gallons in the north yielded 38.43 lb. of butter, and in the south 39.72; so that it would appear that the milk in the southern district, on account of the dry season experienced, contained a slightly higher proportion of butter-fat.

Although dairying is confined mainly to the coastal regions, where grass is available for food throughout the year, it is also actively pursued in the more favoured parts of the non-coastal regions for the purpose of supplying local wants, and already in places remote from the metropolis well-equipped factories have been established. In these localities the industry is generally carried on in conjunction with wheat-farming and sheep-raising, and sufficient fodder must be grown to carry the cattle through the winter months.

Most of the native grasses of the State are particularly suitable for dairy cattle, as they possess milk-producing as well as fattening qualities, and these are supplemented in winter by fodder, such as maize, barley, oats, rye, lucerne, and the brown variety of sorghum or planter's friend. Ensilage is also used as food, but not so generally as it should be, and the quantity made varies considerably in each year. In the year 1905, only 9,321 tons were made; in 1906, 11,849 tons; in 1907, 12,856 tons; in 1908, 27,468 tons; and in 1909, 34,847 tons. The area of land devoted to sown grasses has been largely extended during the last few years, and in March, 1910, it amounted to about 889,000 acres. The produce of this land is principally used as food for dairy cattle, and as the area is still below the present requirements, an extension of this form of cultivation may be anticipated. The number of dairy cows in milk, and the area under sown grasses in each district of the State during 1909 were as follows:—

District.	Dairy Cows in Milk.	Area under Sown Grasses.
Coastal Division—	No.	acres.
North Coast	210,770	596,568
Hunter and Manning	110,624	68,983
County of Cumberland	20,073	2,724
South Coast	89,006	174,912
Total	430,473	843,187
Tableland Division—		
Northern Tableland	25,362	13,270
Central „	21,909	7,045
Southern „	14,141	3,333
Total	61,412	23,648
Western Slopes—		
North-western Slope	17,234	4,329
Central-western „	9,205	977
South-western „	21,889	8,515
Total	48,328	13,821
Western Plains and Riverina—		
North-western Plain	3,936	22
Central-western „	5,014	1,093
Riverina	14,435	7,063
Total	23,385	8,178
Western Division	2,780	103
Total, All Districts	566,378	888,937

The number of dairy cows shows a considerable increase since 1902, although several of the seasons were unfavourable; and, still more important, there has been also an increase in their average yield of milk. This will be apparent from the following figures :—

Year.	Dairy Cows in Milk at end of year.	Production of Milk.	Average Yield per Cow.
	No.	gallons.	gallons.
1901	417,835	122,750,500	294
1902	351,287	105,742,900	301
1903	362,429	129,966,100	359
1904	424,936	158,650,800	373
1905	442,950	162,918,600	368
1906	494,820	185,941,230	376
1907	506,395	183,303,474	362
1908	527,843	188,518,562	357
1909	566,378	201,183,337	355

It would be more accurate to base the average yield on the mean number of cows in milk during the year. Owing, however, to the great difficulty in ascertaining that number, which depends not only on the actual number of cows, but on the length of time during which they were in milk, the average has been deduced as above, and probably is as accurate as can be obtained. It is evident that there has been a substantial increase in the average yield since the first year quoted; the figures for 1908 and 1909 are not so high as in the previous five years, as the seasons were not favourable in many dairying districts.

The following statement shows the purposes for which the milk, 201,183,337 gallons, produced in 1909 was treated :—

	Gallons.
Used on farms for butter	14,990,757
" " cheese	2,065,324
Separated on farms	147,160,744
Sent to butter factories or separating stations for butter	2,202,239
" " " " " sweet cream	83,696
" " " " " cheese factories	2,958,248
" " " " " condensers... ..	677,799
Treated at factories for metropolitan market	2,633,967
Balance sold or otherwise treated	28,310,563
Total	201,183,337

Almost as important as the average yield of milk is the percentage of butter-fat, and it is satisfactory to note that this also has shown an improvement since 1902, the first year for which the proportion can be ascertained. In order to show the improvement in this respect, the following table has been prepared, showing the quantity of butter made and the milk used for that purpose during each of the last eight years, distinguishing between the milk treated on farms and in factories :—

Year.	On Farms.		In Factories.		Total.	
	Milk used.	Butter made.	Milk used.	Butter made.	Milk used.	Butter made.
	gallons.	lb.	gallons.	lb.	gallons.	lb.
1902	9,914,454	3,417,502	66,924,976	26,533,475	76,839,430	29,950,977
1903	11,859,529	4,094,150	87,189,710	34,632,957	99,049,239	38,727,107
1904	12,791,709	4,530,771	117,698,450	49,060,472	130,490,159	53,591,243
1905	13,640,534	4,576,076	116,723,796	48,464,174	130,364,330	53,040,250
1906	14,288,379	4,636,642	141,760,969	54,304,495	156,049,348	58,941,137
1907	12,750,602	4,128,256	140,357,812	55,913,193	153,108,414	60,041,449
1908	12,876,805	4,329,241	141,996,126	57,051,635	154,872,931	61,380,876
1909	14,562,520	4,840,049	149,891,220	58,025,559	164,453,740	62,865,608

Comparing the quantity of milk used with the butter produced during the past two years, it is found that the proportion of butter-fat decreased during 1909, owing to the lessened output of the South Coast, and 100 gallons of milk yielded 1·4 lb. of butter less than in 1908:—

Year.	Quantity of butter per 100 gallons of milk treated.		
	On Farms.	In Factories.	On Farms and in Factories.
	lb.	lb.	lb.
1902	34·5	39·6	39·0
1903	34·5	39·7	39·1
1904	35·4	41·7	41·1
1905	34·0	41·5	40·7
1906	32·0	38·0	37·8
1907	32·4	39·8	39·2
1908	33·6	40·2	39·6
1909	33·2	38·7	38·2

As already stated, it was the manufacture of butter by machinery which made the dairying industry really important, and it is to the introduction of the factory system in convenient centres that it owes its present development. When the factory system was introduced, the processes of cream separation and butter making were carried on together. This arrangement was improved by the establishment of public "creameries" or separating stations, where the cream is separated and then sent to the factories. In the last few years there has been another great change, and most of the farmers now treat the milk in their own dairies by means of hand separators. The subjoined table shows to what extent this system has been adopted since 1902, the first year for which the information is available:—

Year.	Milk Separated for making Butter.			
	On Farms.		In Public Separating Stations.	Total.
	By hand, &c.	By steam, &c.		
	gallons.	gallons.	gallons.	gallons.
1902	54,124,023	6,319,687	16,395,720	76,839,430
1903	76,419,864	5,771,930	16,857,395	99,049,239
1904	108,029,663	6,184,480	16,276,016	130,490,159
1905	103,438,591	7,577,972	19,347,767	130,364,330
1906	140,859,572	5,999,445	9,290,331	156,049,348
1907	142,843,911	3,775,899	6,488,604	153,108,414
1908	145,623,868	5,352,269	3,896,794	154,872,931
1909	156,189,009	5,962,492	2,302,239	164,453,740

Most of the factories dealing with dairy produce are established on the co-operative principle, which has steadily gained favour, until in 1909 three-fourths of the factory butter was made in these establishments. The following figures showing a comparison of the co-operative and proprietary factories are exclusive of butter, 179,536 lb., and cheese, 499,049 lb., made in factories worked in conjunction with farms:—

	Butter Factories.		Cheese Factories.	
	No.	Output.	No.	Output.
		lb.		lb.
Co-operative ...	68	43,914,116	8	853,420
Proprietary ...	62	13,931,907	22	1,895,686
Total ...	130	57,846,023	30	2,749,106

During the past thirteen years the total value of the machinery has increased from £224,526 to £286,517. During this period the quantity of butter has increased from 29,409,966 lb. to 62,685,608 lb. The production in each district during 1909 is shown in the following table:—

District.	Butter made.	District.	Butter made.
Coastal Division—	lb.	Western Slopes Division—	lb.
North Coast	31,947,380	North-western Slope ...	1,205,679
Hunter and Manning ...	12,646,868	Central-western „ ...	587,042
County of Cumberland...	666,136	South-western „ ...	2,234,943
South Coast	8,045,467	Total	4,027,664
Total	53,305,851	Western Plains & Riverina—	
		North-western Plains...	80,602
Tableland Division—		Central-western „ ...	157,701
Northern Tableland ...	2,063,858	Riverina... ..	804,435
Central „	1,580,331	Total	1,042,738
Southern „	805,174	Western Division	39,992
Total	4,449,363	Total, All Districts ...	62,865,608

Prior to 1890 there was a considerable import of butter to meet local requirements, but from that year an export trade was commenced, the surplus increasing from 281,341 lb. in 1890 to 21,987,103 lb. in 1909. The following table shows the comparative figures of production:—

Year.	Butter made—			Excess of Exports over Imports.	Apparent local consumption of Butter.
	In Factories.	On Farms.	Total		
	lb.	lb.	lb.	lb.	lb.
1900	37,056,317	4,423,477	41,479,794	8,487,534	32,992,260
1901	34,282,214	4,774,664	39,056,878	8,643,071	30,413,807
1902	26,533,475	3,417,502	29,950,977	*1,779,583	31,730,560
1903	34,632,957	4,094,150	38,727,107	7,625,069	31,102,038
1904	49,060,472	4,530,771	53,591,243	20,513,307	33,077,936
1905	48,464,174	4,576,076	53,040,250	13,841,514	39,198,736
1906	54,304,495	4,636,642	58,941,137	22,250,668	36,690,469
1907	55,913,193	4,128,256	60,041,449	18,923,638	41,117,811
1908	57,051,635	4,329,241	61,380,876	22,042,265	39,338,611
1909	58,025,559	4,840,049	62,865,608	21,987,103	40,878,505

* Excess of Imports.

The proportion of factory-made butter in the total production has increased from 72 in 1895 to 92 per cent. in 1909; and naturally, for not only is less milk required to produce a certain quantity of butter, but the price is also from ½d. to 1d. per lb. higher than for butter made on farms.

The export trade has grown rapidly, and is carried on almost entirely with the United Kingdom, whose immense population presents a ready market for all products of the dairying industry. The imports of butter into the United Kingdom during the last five years are shown hereunder:—

Year.	Imports of Butter from New South Wales.	Proportion of English Imported Butter.
	cwt.	per cent.
1905	163,531	4.06
1906	180,655	4.17
1907	195,289	4.64
1908	138,953	3.30
1909	132,708	3.27

Butter from this State has attracted attention in London only in recent years; the great import and established reputation of the Swedish or Danish article had practically controlled the market. But the position is changing, so that 38 per cent. of all butter imported into the United Kingdom during the winter months of 1909-10 was of Australian origin, and on many occasions Australian creamery butter has commanded a higher value than Danish. The prices per cwt. for New South Wales butter in London during the last four seasons were as shown below:—

Month during which Sales were effected in London.	1906-1907.		1907-1908.		1908-1909.		1909-1910.	
	Top.	Bottom.	Top.	Bottom.	Top.	Bottom.	Top.	Bottom.
	1906.		1907.		1908.		1909.	
	s.	s.	s.	s.	s.	s.	s.	s.
August	112	106	100	95	*	*	*	*
September	114	111	98	96	*	*	120	104
October... ..	119	113	119	112	121	117	120	106
November... ..	117	111	119	112	118	115	114	113
December	109	106	120	114	107	105	110	108
	1907.		1908.		1909.		1910.	
January	104	96	122	115	108	106	122	110
February	101	96	136	126	106	104	117	113
March	100	97	117	109	105	103	122	118
April	98	91	111	105	98	96	116	114
May	97	90	110	103	98	96	106	102
June	96	91	106	97	98	96	103	100
July	97	93	109	104	106	104	102	100

*No quotations.

The experience of the export trade shows that butter should be made, salted and coloured to suit the taste of the particular market for which it is intended. So long as the present standard is maintained, no doubt the product of the State will continue in its present demand, and there is no reason why further improvement should not be made by greater attention to detail.

In earlier years the difficulty in securing ocean freights during the export season constituted a severe drawback, but the trade has assumed such important dimensions that it is now the subject of keen competition among shipping companies, with consequent reduction in charges.

The freight on butter forwarded by mail steamers from Sydney to London during the seasons 1900-1 to 1904-5, was 3s. 6d. per box of 56 lb., while other steamers accepted shipments at rates varying from $\frac{3}{16}$ d. to $\frac{3}{8}$ d. per lb. For the season 1905-6 mail steamers contracted to accept 1s. 10d. per box, while other steamers charged $\frac{3}{8}$ d. per lb., or 1s. 9d. per box. Since the 1st January, 1908, the rates have been 2s. 6d. per box by mail steamers, and 2s. per box by all other steamers, including the cargo boats of the Peninsular and Oriental Company.

The advance in cheese-making has not been commensurate with the expansion of the butter trade; in 1909 the quantity of cheese made was only 19 per cent. more than in 1896, but the production of butter had increased by 143 per cent. The demand for cheese is much more limited but as the production does not meet the requirements of the local market, it is evident that the manufacture of butter has been found more profitable. It is certain that the manufacture of cheese will never command the same attention as butter, owing to its great disadvantages as an article of export. Cheese matures quickly, and, unlike butter, cannot be frozen; and it decreases in value after a certain period. Moreover, it has

only half the money value of butter, while the cost of freight is practically the same; so that it is not surprising that even where cheese can be produced in New South Wales under excellent conditions, its manufacture is not being greatly extended.

The following table shows the manufacture of cheese in districts during the years 1908 and 1909 :—

District.	Cheese.	
	1908.	1909.
Coastal Division—	lb.	lb.
North Coast	115,355	123,369
Hunter and Manning	12,821	1,650
County of Cumberland	12,907	40,262
South Coast	4,146,192	4,121,483
Total	4,287,275	4,286,764
Tableland Division—		
Northern Tableland	173,790	161,685
Central "	40,613	39,249
Southern "	11,232	9,486
Total	225,635	210,420
Western Slopes Division—		
North-western Slope	18,002	15,980
Central-western " ... ..	.....	.....
South-western "	232,448	261,208
Total	250,450	277,188
Western Plains and Riverina Division ... ..	.....	896
Western Division ... ..	.....	.....
Total, All Districts	4,763,360	4,775,268

It will be seen that cheese-making is practically confined to the South Coast; in fact, the quantity made in other parts of the State is becoming smaller each year. The South Coast production was equivalent to 90 per cent. of the total in all divisions.

Although the manufacture of cheese for export has many disadvantages, it is evident that these must apply to a similar extent in other countries, and it is, therefore, notable to find there is a large import into this State. The following table shows, for each year of the last decennial period, the local production and the total consumption of cheese :—

Year.	Production of Cheese.			Excess of Imports over Exports.	Apparent local consumption of Cheese.
	In Factories.	On Farms.	Total.		
	lb.	lb.	lb.	lb.	lb.
1900	2,322,663	1,236,160	3,558,823	1,503,526	5,062,349
1901	2,428,599	1,410,236	3,838,835	1,771,247	5,610,082
1902	2,691,439	1,456,599	4,148,038	873,627	5,021,665
1903	3,340,510	1,407,666	4,748,176	811,745	5,559,921
1904	2,677,830	1,545,791	4,223,621	496,595	4,720,216
1905	2,997,982	1,627,998	4,625,980	414,972	5,040,952
1906	3,459,641	1,929,704	5,389,345	*77,700	5,311,645
1907	3,261,894	1,324,063	4,586,857	540,041	5,126,898
1908	3,260,389	1,502,971	4,763,360	783,719	5,547,079
1909	3,248,515	1,526,753	4,775,268	692,020	5,467,288

* Excess of Exports.

In addition to butter and cheese, there are other milk products which might receive more attention than at present. The manufacture of condensed milk is an instance, as the annual import during the last nine years has averaged 5,357,500 lb., with a value of £98,900. At present there are three factories in the State, situated at Bomaderry, Belford, and Pitt Town. A somewhat similar product, known as concentrated milk, is also being manufactured at the Bomaderry and Belford factories. This article will keep for months in cool chambers, and is used principally on ocean-going steamers. Being without sugar, it has all the richness and flavour of fresh milk, and consequently is more useful than condensed milk, which is not palatable to many people. The total quantity of milk used in the manufacture of the two products in 1909 was 677,799 gallons, and the output of the articles aggregated 2,400,687 lb., valued at £34,851.

SWINE.

The breeding of swine, which is usually carried on in conjunction with dairy-farming, has been very much neglected in New South Wales, as the fluctuations in the following table tend to show:—

Year.	Swine.	Year.	Swine.	Year.	Swine.
	No.		No.		No.
1860	180,662	1893	240,860	1902	193,097
1865	146,901	1894	273,359	1903	221,592
1870	243,066	1895	223,597	1904	330,666
1875	199,950	1896	214,581	1905	310,702
1880	308,205	1897	207,738	1906	243,370
1885	208,697	1898	247,061	1907	216,145
1890	283,061	1899	239,973	1908	215,822
1891	253,189	1900	256,577	1909	237,849
1892	249,522	1901	265,730		

The breeding of swine is an important factor in successful dairy-farming, but the number of stock has not kept pace with the increase in the quantity of milk available for food. A farmer who possesses his own cream separator can utilise the separated milk for the purpose of feeding pigs, and those who sell their milk to a creamery can sometimes obtain separated milk without cost; in any case it can be purchased at about a farthing per gallon, a price which renders it a most economical food for pigs, provided that such crops as maize, rye, peas, mangolds, pumpkins, &c., are grown to supplement the milk diet. Under these circumstances, and as it is no uncommon thing for good bacon pigs to bring over £3 in the open market, the breeding of a good class must be a profitable pursuit. Until recent years, there was some difficulty in obtaining suitable pigs for breeding purposes, but as stock from the best imported strains may now be purchased at the Government Experiment Farms and other Institutions, this difficulty has been overcome. The breeds generally met in the State are the improved Berkshire, Poland, China, and Yorkshire strains.

The following statement shows the number of pigs in each district at the end of 1909, and the quantity of bacon and ham made:—

District.	Swine.	Bacon and Ham made.
	No.	lb.
Coastal Division—		
North Coast	71,274	3,035,648
Hunter and Manning	44,654	621,784
County of Cumberland	14,204	4,233,323
South Coast	27,634	339,608
Total	157,766	8,230,363
Tableland Division—		
Northern Tableland	10,166	351,094
Central „	12,507	351,559
Southern „	6,224	189,698
Total	28,897	892,351
Western Slopes Division—		
North-western Slope	9,999	97,362
Central-western „	6,078	104,400
South-western „	13,433	289,025
Total	29,510	490,787
Western Plains and Riverina Division—		
North-western Plains... ..	4,607	8,728
Central-western „	3,636	71,833
Riverina	9,527	220,005
Total	17,770	300,566
Western Division	3,906	17,310
Total, All Districts	237,849	9,931,377

There is no reason why the production of bacon and hams should not be very largely increased, as, except in very rare instances, it has not been sufficient to meet local requirements. The production has varied with the seasons, but the general tendency is towards an increase, as may be seen from the following table:—

Year.	Production and Consumption of Bacon and Hams.				
	Factory.	Farm.	Total Production.	Excess of Imports over Exports.	Apparent Consumption.
	lb.	lb.	lb.	lb.	lb.
1900	7,963,670	2,899,455	10,863,125	1,030,889	11,894,014
1901	7,392,060	3,688,831	11,080,891	1,188,843	12,269,734
1902	6,143,030	2,852,826	8,995,856	1,719,451	10,715,307
1903	5,664,492	2,200,279	7,864,771	820,006	8,684,777
1904	7,343,220	3,337,312	10,680,532	919,974	11,600,506
1905	6,931,217	4,721,223	11,652,440	2,692,758	14,345,198
1906	7,337,910	4,505,685	11,843,595	2,258,631	14,102,226
1907	7,240,685	3,117,841	10,358,526	2,609,030	12,967,556
1908	7,296,532	2,191,767	9,488,299	2,254,201	11,742,500
1909	7,856,466	2,074,911	9,931,377	2,253,064	12,184,441

As with butter and cheese, the production of bacon and ham is confined chiefly to the coast districts, but the breeding of pigs is more evenly distributed throughout the State.

At present there are few factories devoted entirely to the curing of bacon and hams, and more bacon factories fitted with refrigerating machinery are required, so that curing may be continued during the summer months. In these central establishments, moreover, greater care could be exercised both in securing uniformity in the quality of the article and in cutting. For export the animals should be grown larger, as English bacon pigs weigh 300 or 400 lb. each. The pigs bred in this State are usually sold when fat as porkers at from 60 lb. to 90 lb. weight, the majority being sent to the Sydney market alive. The price ruling for good porkers during 1909 ranged from 27s. 6d. to 42s. 9d., the average being about 35s. 9d. Owing to the neglect to grow root crops for the purpose of feed during the winter, when milk is scarce, the demand for store pigs at the commencement of the summer is usually very great, and there is a corresponding glut of fat pigs at low prices as winter approaches.

The number of swine slaughtered during 1909 was 202,303, of which 95,097 were killed in the metropolis.

VALUE OF PRODUCTION.

The value of the production from the dairying industry during 1909 was £3,761,000, to which may be added £222,000 obtained from the sale of swine, making a total of £3,983,000. The value from each produce was as follows:—

	£
Butter	2,770,000
Cheese	125,000
Milk (not used for butter or cheese)	561,000
Milch Cows	305,000
Swine	222,000
	£3,983,000

Although the value of dairy production in 1909 was £81,000 less than the previous year, there has been a considerable increase during the past five years, the figures for 1907 being £3,567,000, as compared with £3,425,000 in 1906 and £3,123,000 in 1905.

OTHER PRIMARY INDUSTRIES.

POULTRY-FARMING.

Poultry-farming has been conducted in past years in conjunction with the dairying industry, but the interests involved have become so important commercially, that a distinct industry relating to poultry alone has now been developed. Great attention is given to secure the most modern methods in the conduct of the farms, both as to the excellence of breeds for egg-producing and for table, and as to the treatment of the birds in view of expected profitable results. Information is not available regarding the full production, but a general estimate based on the accessible records shows the value for 1909 to be approximately £1,309,000, as compared with £619,000 in 1904.

BEE-KEEPING.

The bee-keeping industry is of very small importance, but there is ample inducement for further expansion, inasmuch as the average annual import of honey into the State is about 200,000 lb.

The production of honey and of beeswax varies considerably from year to year, as will be apparent from the attached table relating to the last ten years:—

Year ended 31st March—	Bee Hives.		Honey.	Average Yield of Honey per Hive.	Beeswax.
	Productive.	Un- productive.			
	No.	No.	lb.	lb.	lb.
1901	47,394	11,560	2,397,698	50·6	49,337
1902	42,174	10,915	2,259,177	53·6	51,735
1903	37,980	8,263	1,815,480	47·8	37,207
1904	45,094	13,236	2,147,295	47·6	49,589
1905	53,043	11,687	3,023,468	57·0	58,610
1906	36,589	12,043	1,841,236	50·3	39,620
1907	37,306	11,964	1,907,744	51·1	34,690
1908	53,240	15,148	2,660,363	50·0	48,427
1909	53,612	16,347	3,064,526	57·2	58,697
1910	47,807	17,992	2,066,330	43·2	53,006

Owing to the unfavourable season, the yield was small during 1909-10.

The estimated value of the production of honey and beeswax in 1909 was £29,000, the production for each division being as follows:—

Division.	Honey.	Beeswax.
	lb.	lb.
Coastal Division... ..	1,055,905	23,567
Tableland Division	472,138	12,522
Western Slopes Division	457,109	14,921
Western Plains and Riverina Division.	78,621	1,966
Western Division	2,557	30
Total	2,066,330	53,006

FORESTRY.

There is great variety in the timbers of the State, and many of the species provide a wide range of usefulness, from the hardness and durability of the ironbark to the light, easily-worked woods suitable for cabinet-work.

The early colonists cut down the timber just as their requirements prompted, and gave no heed to the necessity for systematic replacement to meet the wants of the future, and as there was no specially-constituted body with powers of supervision or of conservation of the forests, the country was rapidly denuded of some of the most valuable timber. In the course of time, this denudation has produced such harmful effects, that not only is the supply of certain species practically exhausted, but the operation of replacement will occupy many years of patient propagation.

Realising the necessity for immediate and vigorous remedial measures, the Government, in 1907, appointed a Royal Commission to investigate the matter, and, *inter alia*, to report upon the effectiveness of the present forestry laws, and to indicate what steps should be taken in the direction of afforestation and reafforestation. At the present time only about 15 million acres are covered with timber of commercial value, and of this area about 7 million acres, or less than half, have been reserved for the preservation and growth of timber.

It was estimated by the Royal Commission that at the present rate of consumption the supplies of hard and soft timbers would last for forty-seven and twenty-eight years respectively, the young timber which will mature in the meantime being taken into consideration.

The Royal Commission recommended the framing and passing of a Forestry Act, to be administered by three Commissioners, with the assistance of the necessary officers, the field staff being strengthened considerably. An area of 7,610,056 acres should be dedicated permanently for the preservation, growth, and re-growth of timber, and owing to the enhanced prices of timber, the State should benefit to a greater extent by increased royalties. It also recommended that the oversea export of iron-bark and tallow-wood be prohibited for a period of ten years. It is hoped these measures will stop the ruthless destruction of the best species of brush and hardwood, which has occurred principally in the Clarence River district and in the eucalyptus forests on the Murray.

Following the report of the Royal Commission on Forestry, a Forestry Act was passed at the end of 1909 embodying the following provisions:—

A branch of the Public Service is to be established, to be called the Forestry Department, with a Director of Forests, and other necessary officers.

The Governor may purchase, resume, or appropriate land for the purpose of a State forest, and, subject to certain restrictions, may dedicate as a State forest land vested in His Majesty.

Timber-getters' and other licenses may be granted by the Minister, or by any person authorised by him.

The Minister, under certain conditions, may grant exclusive rights to take timber or products on specified areas of State forest or timber reserves.

Every person conducting a saw-mill for the sawing or treatment of timber must obtain a license, keep books and records, and make returns as prescribed.

Royalty must be paid on all timber felled, and on all products taken from any State forests, timber reserves, Crown lands, or lands held under any tenure from the Crown; but such royalty is not payable on timber exempted therefrom by the terms of the license or by the regulations, or on timber on any holding required for use on that holding. Allowance may be made for any timber which is not marketable.

Trees on any State forest, timber reserve, or Crown lands, with the exception of lands held under conditional lease granted before the passing of the Act, must not be ringbarked except under special conditions.

The Minister, where practicable, must impose conditions for afforestation and reforestation in all exclusive rights or licenses.

The Act makes provision for regulations on the following matters:—

For granting licenses, &c., and prescribing the fees and royalties payable.

To determine the periods and the conditions under which licenses, &c., may be granted.

Providing for the protection and preservation of timber, and regulating the cutting, marking, and removing thereof.

For inspecting, branding, and marking timber, and prescribing the kinds, sizes, and quantities which may be cut or removed.

Determining the conditions under which fires may be lighted in State forests, and providing for the organisation of a system of education in scientific forestry.

The Director of Forests has been appointed, and regulations have been framed, to give practical effect to the Act.

It is impossible to state accurately the annual value of production for this branch of industry, but it has been calculated to represent, at the base of production, about £899,000 for 1909, the return from hardwood sleepers obtained for export and local use being about £93,800.

FISHERIES.

Splendid fishing-grounds extend along the whole length of the coast, the natural features of which are peculiarly favourable to the existence of a very large supply of the best food fishes. In the waters of the numerous bays and estuaries, and in the lakes and lagoons communicating with the sea, are found shelter and sustenance, as well as excellent breeding-grounds. The principal fishes found on the coast are not migratory, and as a consequence may be procured nearly always in the market. But despite the unlimited supply and a large local demand, the fishing industry has long been in an unsatisfactory condition, and fresh fish is scarce, while preserved fish to the value of over £164,000 was imported during 1909 for local consumption.

Under the Fisheries Act of 1902 the control of the fisheries of the State was placed in the hands of a Board, who supervised the industry and ensured the observance of the regulations in regard to the dimensions of nets, the closing of tidal waters to net-fishing, and other matters. An amending Act in 1910 provided that the Board be dissolved and its powers vested in a Minister of the Crown, for whose assistance the Governor may appoint an advisory Board of five persons. Every fisherman in tidal waters must apply for a license yearly, the fee being 10s., which is reduced to half that amount if the license is issued in the second half of the year. A license must be taken out for every fishing-boat, the fee being £1, which likewise is reduced by one-half if granted after the 30th June.

The number of fishing-boat licenses issued during the year 1909 was 1,155, and of licenses granted to fishermen 2,381, the fees received for these 3,536 licenses amounting to £1,126. The class of boat used for fishing purposes in New South Wales is ill-suited, and very little improvement is likely to result to the industry if the present fishermen are left unaided with their primitive appliances, and unless others of a better class, provided with capital, are induced to take up the business.

For the purpose of oyster-culture, the Crown grants leases of the foreshores of tidal waters between the mean high and mean low-water mark. The rental is 20s. per annum for every 100 lineal yards. The maximum length for which a lease may be obtained is 2,000 yards, but as the same person may take out more than one lease, the portion of shore which may be acquired is practically unrestricted. The lease may be taken out for a term of ten years. Leases of deep water or natural oyster beds are also granted for an area not exceeding 25 acres, at a rental not less than £2 per acre. During the year 1909 386 applications for leases, aggregating 112,806 yards, were granted, and at the end of the year the existing leases numbered 2,282, and the length of the foreshore held was 662,135 yards. In addition, there were in existence deep-sea leases to the extent of 93½ acres. The deposits paid with the applications for leases amounted to £849, while the rentals received from leased areas were £4,980 during the year.

During 1909 15,538 bags of oysters were obtained from the tidal waters of the State. During 1900, 20,182 bags were taken, but from this year the annual take showed a general tendency to decrease on account of the spread of disease in some of the rivers. The smallest quantity of oysters taken—12,613 bags—was during 1904; in the last five years the production has improved, the output in 1909 being the largest since 1902.

It is estimated that the annual value of production of the fisheries of the State is about £197,000.

RABBITS AND HARES.

The growth of the export trade in frozen rabbits and in rabbit skins is a noticeable development of recent years, but the return thus brought to the State is by no means commensurate with the financial losses caused by the depredations of the pest.

Year.	Value of Domestic Exports.		
	Frozen Rabbits and Hares.	Rabbit and Hare Skins.	Frozen Rabbits, Hares, and Skins.
	£	£	£
1900	4,537	4,182	8,719
1901	6,233	13,291	19,524
1902	12,143	38,094	50,237
1903	37,653	38,233	75,886
1904	56,007	105,952	161,959
1905	145,268	162,783	308,051
1906	248,507	316,929	565,436
1907	303,078	241,099	544,177
1908	248,981	163,457	412,438
1909	331,509	220,748	552,257

The export trade, which is principally with the United Kingdom, amounted to £552,257 in 1909; but these figures by no means represent the total return from rabbits and hares, which may be set down as approximately £652,000 during this year. In the State itself, these animals now form a common article of diet, both in the metropolis and country, especially during the winter months, when large numbers of men are engaged in their capture and distribution. The fur is largely used in the manufacture of hats

MINING INDUSTRY.

THE most powerful factor in effecting the settlement of population in New South Wales, and consequently in Australia, was the discovery of gold in payable quantities in 1851. During the decade succeeding this discovery (made by Hargraves), gold-mining became the leading industry in the State, easily eclipsing in quantity and value of production the mining of coal which, up to that date, had been the only mineral raised. Naturally, in the earlier stages of gold-mining, when alluvial deposits were being worked, and diggers could obtain the metal readily, the knowledge of these conditions induced a great influx of population from other countries, and attracted the attention of the resident population from existing industries; but as the alluvial deposits became exhausted the character of the industry changed from the fluctuations of prospecting to the more settled conditions of an industry, requiring large capital and expensive machinery, under the direction and control of companies mainly organised on the no-liability system, and the surplus population of the early gold-field days naturally settled down to the development of more permanent industries, such as agriculture.

Since the period of permanent development in gold-mining various other metals have been found in New South Wales, and though gold still occupies a prominent place in the mineral wealth of the State, other metals, such as silver, tin, copper, and iron now join with it in rendering mining an important section of the primary industries.

MINERS EMPLOYED, AND PRODUCTION.

The following table gives the approximate number of persons actually engaged in the principal departments of mining during each of the past eight years. The figures are given on the authority of the returns furnished to the Mines Department:—

Mineral.	Miners employed at end of each year.							
	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
	No.	No.	No.	No.	No.	No.	No.	No.
Gold	10,610	11,247	10,648	10,309	8,816	7,468	6,363	5,585
Silver and Silver-Lead	5,382	6,035	7,071	7,887	9,414	10,021	7,560	6,207
Tin	1,288	2,502	2,745	2,884	3,795	3,173	2,456	2,037
Copper	1,699	1,816	1,850	2,171	3,047	3,764	2,745	2,024
Coal	12,815	13,917	14,034	14,019	14,929	17,080	17,734	18,168
Shale	299	200	112	118	270	276	350	401
Other Minerals ...	1,602	1,842	1,377	1,544	2,275	1,976	1,757	1,983
Total	33,695	37,559	37,837	38,932	42,546	43,758	38,965	36,405

During a portion of the period covered by the above table, there was a marked falling-off in the number of men engaged in mining as compared with the earlier years. The lowest point was reached in 1902, when, as

a result of the continued dry weather, only 33,695 were employed. In the subsequent years, steady increases were recorded, until, at the close of 1907, the industry gave employment to 43,758 persons. During 1908 and 1909 the figures again dropped considerably, the number engaged at the close of 1909 being 36,405, a decrease of 7,353 as compared with the year 1907.

With the exception of 1903, the gold-miners have steadily decreased year by year, till at the end of 1909 there were only 5,585, or about half the number so employed only seven years ago. This apparent neglect of gold-mining is due to some extent to the diversity of the mineral wealth of this State; for, during the past few years, most of the available capital has been directed towards the development of other minerals, as is indicated by the increase in the number of men mining for silver, tin, and coal. The reefs on most of the gold-fields have been worked, as far as practicable, by the ordinary miner, and the introduction of capital is necessary for their further development. In comparing the detailed returns for 1909 with those of the previous year, it is seen that there were 311 less men employed in quartz-mining and 467 in alluvial-mining. This falling-off is attributable to the decrease in the number of small gold-mines and claims worked, and the cessation of active prospecting and fossicking operations during the year. It is noticeable that fossicking has not been followed so much as in former years.

The value of mining plant and machinery is approximately £4,659,265, of which £1,366,000 represents the value of the winning, weighing, and ventilating plant and machinery used in connection with coal and shale mines. The value of machinery in operation on other mineral fields is shown below:—

Type of Plant.	Value at 31st December, 1909.
	£
Gold—Dredging	164,427
Other	543,842
Silver and Lead	1,709,696
Copper	442,943
Tin-Dredging	145,406
Other	18,626
Other Metals or Minerals	268,325
	£3,293,265

The value of plant and machinery in operation at the mines is, as stated above, £4,659,265; but this sum does not include the value of the large smelting plants in operation at Cockle Creek, and Woolwich, the copper reducing and refining plants at Lithgow and Newcastle, and the plant at the Eskbank iron-works. The total is exclusive also of value of plant used for conveying products from the mines to railway station or wharf, which, in the case of coal and shale mining, is set down at £1,105,000.

The summary given below shows the value of the production of the various minerals during the last four years, also the total amount since their first discovery :—

Mineral.	Value.				
	1906.	1907.	1908.	1909.	To end of 1909.
	£	£	£	£	£
Gold (native ores only) ...	1,078,866	1,050,730	954,854	869,546	57,189,282
Coal ...	2,337,227	2,922,419	3,353,093	2,618,596	59,250,851
Silver and silver-lead ...	2,862,973	3,915,946	2,160,195	1,653,615	50,435,480
Copper, Matte, and Ore ...	789,527	727,774	502,812	424,737	10,127,952
Tin and ore ...	255,744	293,305	205,447	211,029	8,454,290
Kerosene Shale ...	28,470	32,055	26,067	23,617	2,217,184
Zinc (Spelter and Concentrates) ...	292,806	536,620	600,883	1,041,280	3,069,057
Coke ...	110,607	159,316	199,933	137,194	1,602,807
Noble Opal ...	56,500	79,000	41,800	61,800	1,171,699
Lead (pig, &c.) ...	1,084	374,182	186,746	186,073	1,278,036
Limestone flux ...	7,463	16,162	14,779	13,851	662,261
Antimony and ore ...	52,645	46,278	1,141	711	301,409
Bismuth ...	5,700	5,268	2,017	1,624	123,523
Diamonds ...	2,120	2,056	1,358	3,959	111,462
Chrome iron ore ...	15	105	.....	.....	101,108
Alunite ...	4,637	5,115	2,705	8,791	99,208
Ironstone flux ...	723	7,707	6,199	3,471	78,675
Pig iron ...	.....	60,550	98,777	100,357	259,684
Wolfram ...	9,057	26,235	6,742	11,249	71,537
Scheelite ...	7,647	23,781	11,082	14,618	73,211
Molybdenite ...	4,798	3,564	929	3,249	24,072
Platinum ...	623	1,014	439	1,720	20,713
Iron oxide ...	336	1,961	1,857	4,948	22,894
Cobalt ...	.....	.....	.....	.....	7,955
Manganese ore ...	.....	.....	.....	.....	1,655
Sundry minerals ...	3,148	4,147	4,294	7,175	135,956
Total Value ...	£ 7,912,716	10,295,290	8,384,149	7,403,210	196,891,961

The decrease in the mineral production since 1907 is due to the low prices of metal and the closing of important mines in 1909, owing to labour troubles, which most seriously affected coal, coke, silver, lead, and copper.

At the end of 1909 the State had produced various minerals of the total value of 197 millions sterling. These figures differ slightly from those issued by the Mines Department, because such items as scrap-iron, Portland cement, and lime have been included in the report of the Department, but omitted in preparing the above statement, as these products are considered in connection with the statistical returns of manufactories and works. For the sake of comparison, however, the following table shows the value of each of the items mentioned for the same periods as shown in the previous summary :—

Article.	Value.				
	1906.	1907.	1908.	1909.	To end of 1909.
	£	£	£	£	£
Iron made from scrap ...	112,848	118,082	19,447.	6,000	1,416,030
Portland cement ...	128,487	144,548	184,400	202,200	904,725
Lime ...	15,573	19,458	21,610	24,283	170,342
Totals ...	256,908	282,088	225,457	232,483	2,491,097

Gold.

Amongst the metals which occur in the State, gold occupies the foremost place, both on account of the quantity which has been raised and of the influence of its discovery on the settlement of the country.

Native gold is the only true mineral species of the metal which has been found in New South Wales, and was first met in easily-worked alluvial deposits. These deposits, until recent years, attracted a large number of miners, as the gold is obtained without costly appliances; but however rich they may be, alluvial deposits are very soon exhausted, their area generally being of limited extent.

Although the alluvial deposits discovered in the early days have been practically abandoned, there is ample evidence that only the surface of the country has been touched. The search for gold has been prosecuted for more than half a century, and still new fields and fresh deposits are being discovered. The gold formation is very widely diffused throughout the State, as may be gathered from the fact that the fields of Albert, Delegate, and Ballina are between 600 and 700 miles distant from each other; and it has been estimated that the extent of country covered by formations in association with which gold always occurs, exceeds 70,000 square miles, whilst it has also been found in strata where its presence was never suspected. A considerable portion of this area has not yet been tested by the miner.

Gold is found also in quartz-veins, occurring in older and metamorphic rocks, such as argillaceous slates, chloritic and talcose schists, as well as granite, diorite, serpentine, and porphyry. Vein gold is associated more commonly with iron pyrites, though found with copper, lead, zinc, and silver ores, and also in asbestos. But the extraction of gold from quartz-veins requires extensive machinery and gold-saving appliances, involving an outlay of capital such as the ordinary miner seldom possesses; consequently this branch of mining is generally carried on by companies.

It would be difficult to name a part of the State in which gold is not found, as the precious metal appears throughout the greater portion of the territory, and there is ample evidence that there exist deposits which will offer to the prospector or the miner a profitable field of employment for many years.

Below will be found the quantity and value of the gold produced during each quinquennial period since 1851, and for each of the last four years. New South Wales gold which was received at the Sydney Mint for coinage in 1909 amounted to 152,712 oz., of the gross value of £594,734, the average price being £3 17s. 11d. per oz.

Period.	Quantity.	Value.
	oz.	£
1851—1855	1,920,200	6,338,257
1856—1860	1,360,763	5,192,326
1861—1865	2,233,001	8,606,290
1866—1870	1,309,911	5,069,812
1871—1875	1,613,049	6,210,345
1876—1880	640,210	2,366,310
1881—1885	626,931	2,333,358
1886—1890	546,954	1,973,183
1891—1895	1,176,325	4,258,462
1896—1900	1,691,012	6,073,658
1901—1905	1,353,526	4,813,285
1906	302,556	1,078,866
1907	289,043	1,050,730
1908	261,683	954,854
1909	238,047	869,546
	15,563,211	57,189,282

Thus the value of the gold won amounts to over 57 millions; and although the annual yield is now considerably less than that of either silver or coal, yet gold divides with coal the importance of premier position in respect of the total value of production, and exceeds the output of silver by nearly seven million pounds worth, as at the end of 1909.

The introduction of the systems of dredging and sluicing has awakened considerable activity in certain districts, where gold is being saved from the beds of rivers and creeks, and also from wet lands where the ordinary alluvial miner experienced considerable difficulty in working. The initial cost of these undertakings is heavy, but, on the other hand, the large quantity of material that can be treated at a small cost, and the saving in labour, more than compensate for it. With the present improved appliances it is possible to treat profitably alluvial drifts containing only 1 or 2 grains to the ton, while a large percentage of gold, and particularly of fine gold, is obtained by operating over alluvial drifts worked in a crude way.

In 1900, large areas were taken up for dredging for gold and tin, and notwithstanding that many of the dredges were working only for short periods in the year, results were very satisfactory. The following table demonstrates the progress made since the inauguration in that year of dredging in this State:—

Year.	Area under Lease at 31st Dec.	Gold.		Stream-tin.	
		Quantity.	Value.	Quantity.	Value.
	acres.	oz.	£	tons.	£
1900	6,943	8,882	33,660	.....	.....
1901	8,702	23,585	89,628	.....	.....
1902	11,719	25,473	97,891	110	8,300
1903	9,015	27,237	104,303	244	20,100
1904	9,855	32,345	123,656	319	26,180
1905	13,571	35,388	136,090	532	50,904
1906	15,595	36,649	141,101	1,032	120,661
1907	16,614	39,946	153,498	1,692	176,212
1908	16,117	40,890	161,059	1,562	129,952
1909	11,132	36,168	138,626	1,677	146,842
Total		306,563	1,179,512	7,168	679,151

This system of mining has made steady progress during each year of the period, the increase in the number of dredges in operation, coupled with a better appreciation of local conditions, contributing materially to this satisfactory result.

The area leased for dredging at the 31st December, 1909, was 11,132 acres, as compared with 6,943 acres in 1900; and during the interval the number of dredges in operation increased from 22 to 66, the value of the latter being set down at £309,833. Araluen is the principal centre of gold-dredging operations, and here, during the past ten years, gold to the value of £481,159 has been obtained. The other districts which have contributed are Adelong, Stuart Town, Sofala, Wellington, Tambarumba, Nerrigundah, Nundle, and Hill End.

The returns from seventeen "bucket" dredges show that 4,387,921 cubic yards of material were treated, the gold won amounting to 24,340 oz., valued at £94,025, or an average of 2.66 grains, worth 5.14d. for every yard. The returns of seven "pump" dredges show that 1,480,652 cubic yards of material were treated, and yielded 10,917 oz. of gold,

valued at £41,201, or an average of 3.54 grains, worth 6.68d. per cubic yard. Information as to cost of working is not given, but it appears that pump dredging is more expensive than the bucket system.

The number of men employed in alluvial and in quartz-mining during the last ten years, and the production from each branch of the industry, are stated below. The particulars of production are based on information obtained in the various localities, but owing to the non-receipt of detailed returns in some instances, and to the difficulty in obtaining accurate data respecting all the gold won, the quantity of the metal, as returned by the wardens and mining registrars, does not agree with the total amount actually recorded. The quantities of quartz and alluvial, which are approximate, are considered sufficiently accurate for practical purposes:—

Year.	Number of Miners.			Production.		
	Alluvial.	Quartz.	Total.	Alluvial.	Quartz.	Total.
	No.	No.	No.	oz.	oz.	oz.
1900	8,387	9,571	17,958	64,125	245,759	309,884
1901	5,409	6,655	12,064	57,293	156,396	213,689
1902	5,434	5,176	10,610	55,349	134,967	190,316
1903	5,906	5,341	11,247	69,413	226,365	295,778
1904	5,253	5,395	10,648	79,040	245,956	324,996
1905	5,091	5,218	10,309	80,512	248,235	328,747
1906	4,255	4,561	8,816	78,690	223,866	302,556
1907	3,250	4,218	7,468	76,478	212,565	289,043
1908	2,851	3,512	6,363	62,390	199,293	261,683
1909	2,384	3,201	5,585	55,435	182,612	238,047

These figures show clearly that gold-mining has not received much attention from capitalists and miners during the past decade. Owing to the high market prices of many of the other metals, there has been less prospecting for gold than formerly. All the men employed in quartz-mining are Europeans, but on alluvial fields 208 Chinese found occupation in 1909.

The principal seats of alluvial gold-mining are the Bathurst and Mudgee districts; the country watered by the various feeders of the Upper Lachlan; the Braidwood, and Tumut and Adelong districts; and in the north of the State, the New England district. The principal quartz veins worked in New South Wales during 1909 are situated near Adelong, Armidale, Bathurst, Cobar, Forbes, Hillgrove, Orange, Pambula, Parkes, Peak Hill, Wellington, and Wyalong.

The districts which produced the largest quantities of gold during 1909 were:—

District.	Ounces.
Cobar (including Canbelego and Mt. Drysdale)	78,206
Wyalong and West Wyalong	9,981
Adelong	19,510
Wellington	14,429
Araluen	10,895
Hillgrove (including Metz)	4,732
Murrumburrah	11,390
Stuart Town	5,463
Peak Hill	6,984

In addition to the Mount Drysdale gold-field, in the Cobar district, discovered in 1893, the most important find of recent years was made at Wyalong, in the Lachlan district. For the period 1897-9 the production of Wyalong was the highest from any gold-field; but the yearly output since 1900 has been exceeded by that of the Cobar and Mount Drysdale field. During 1909 there was a marked decrease in the output from the Wyalong mines; the yield fell below those, obtained chiefly by dredging, in the Adelong, Wellington, and Araluen districts, and was also exceeded by the quartz mines in the Murrumburrah division.

The Cobar and Mount Drysdale district now holds the premier position as a gold-field, nearly 40 per cent. of the production during 1909 being obtained from this district. Much of the success of this field during the last eight years has been due to the operations of the Cobar Gold Mines Company (Limited) and to the Mount Boppy gold-mine, at Canbelego, the results from which place this district in the first rank as regards production. The annual gold yield for the Cobar district since 1900 is shown below:—

Year.	Quantity.	Value.
	oz.	£
1900	44,676	157,108
1901	42,299	145,146
1902	26,956	90,209
1903	79,860	266,355
1904	69,140	262,213
1905	70,109	230,386
1906	68,685	224,052
1907	58,399	228,981
1908	82,474	271,682
1909	78,206	246,567

The low yield in 1902 was due to the cessation of work at most of the mines for varying periods on account of drought, and the decreases exhibited in 1904 and subsequent years, when compared with 1903, were caused by the restricted operations of the Cobar gold-mines, where the hands employed were considerably reduced, pending the adoption of another method for economically treating the gold-copper ore now in sight. For this purpose additional machinery was erected in 1908, and the result of its operations is shown in the increased output. The figures for 1909 were not so satisfactory, and the production of gold was affected by the cessation of smelting operations at the Great Cobar mine owing to industrial troubles.

The gold found in New South Wales is never absolutely pure, but contains traces of other metals, such as copper, iron, and bismuth, and often a fair percentage of silver, and to the presence of silver its light yellow colour is due. New South Wales gold is generally lighter in colour than Victorian, but is of a deeper yellow than that found in the fields of Southern Queensland. Its specific gravity is about 17·5.

The average weight of the metal obtained per miner in 1909 was 41·01 oz., as compared with 41·13 oz. in the previous year. The values of these quantities are £155 13s. 10d. and £150 1s. 3d. respectively for each miner engaged, and compare very favourably with the averages obtained during the past ten years, namely 27·25 oz. per miner, valued at £97 6s. 10d. These figures do not represent the total earnings of the men engaged

in gold-mining, many of whom follow other pursuits during a portion of the year; further, there were several new fields which so far have yielded very small returns, and a number of men were engaged in prospecting.

The number of fatal accidents in gold-mines during 1909 was four. Three of the men who thus lost their lives were engaged in auriferous quartz-mining, and one in alluvial. Ten serious accidents occurred in quartz-mines.

SILVER.

Until the year 1882 the quantity of silver raised in New South Wales was very small. In that and following years extensive discoveries of the metal, associated principally with lead and copper ores, were made in various parts of the State, notably at Boorook, in the New England district, and, later on, at Sunny Corner, near Bathurst, and at Silverton, Broken Hill, and other places on the Barrier Range.

The argentiferous lead ores of the Barrier Ranges and Broken Hill districts of New South Wales have attracted attention more than any other. This rich silver-field, which was discovered in 1883 by a boundary-rider on Mount Gipps run, extends over 2,500 square miles of country, and has developed into one of the principal mining centres of the world. It is situated beyond the River Darling, and on the confines of South Australia. In the Barrier Range district, the lodes occur in Silurian metamorphic micaceous schists and banded gneisses, intruded by granite, porphyry, and diorite, and traversed by numerous quartz reefs, some of which are gold-bearing. The Broken Hill lode is the largest as yet discovered; it varies in width from 10 feet to 200 feet, and may be traced for several miles, the country having been taken up all along the line of the lode, and subdivided into numerous leases, held by mining companies and syndicates.

The total value of minerals exported from the Barrier district during 1909 was £2,077,086, distributed as follows:—Silver-lead ore, 249,115 tons, £1,313,355; copper ore, 547 tons, £502; zinc concentrates, 303,437 tons, £763,229.

As a natural consequence of the success of the Broken Hill mines, numbers of miners were attracted to the district, and the population, which in 1883 consisted of only a few station hands, had risen at the date of the 1901 census to a total of 28,887 souls, of whom 6,320 men were employed in and about the mines. The population of the municipality at the end of 1909 was estimated at 31,000, and 5,265 persons were permanently employed on the mines.

The production of silver and of lead are largely influenced by the prices of those metals in the markets of the world. Thus, in 1906 and 1907, when prices were high, the number of men employed was higher than at any previous time. In 1908 there was a considerable fall in the prices, and in 1909 they were again lowered.

Zinc recovery is the most important question at the present time, and it is satisfactory to note that the output of zinc concentrates during 1909 amounted to 303,437 tons, valued at £763,229. In 1908 the output was 229,390 tons, valued at £364,791.

The question of determining the metallic contents of the silver and silver-lead ores mined in this State has always been extremely difficult, owing to the absence of reliable data, also because only a small percentage of the ore won is treated within the State. The figures published by the Broken Hill Proprietary Company have enabled rough approximations to be made, but the results have not been satisfactory. For the past five years, however, the Department of Mines has collected from the various

mine managers, smelting companies, and ore buyers in Australia particulars of the metallic contents of all New South Wales ores treated, the results being shown below:—

Contents, &c.	1905.	1906.	1907.	1908.	1909.
Silver (fine oz.)	6,804,934	5,575,410	5,921,457	6,484,288	3,717,016
Lead (tons)	93,182	79,925	79,870	103,371	64,821
Zinc (tons)	544	1,008	984	1,065	.....
Value of above	£ 2,131,317	2,112,977	2,228,420	2,008,410	1,176,394

In addition to the ore treated within the Commonwealth, the results of which are shown above, concentrates are exported to Europe for treatment. The quantity and value of these, together with the estimated gross silver, lead, and zinc contents, based on average assays, are shown hereunder:—

Year.	Concentrates, &c., exported.		Estimated Metallic contents.		
	Quantity.	Amount received.	Silver.	Lead.	Zinc.
	tons.	£	oz.	tons.	tons.
1905	270,474	1,181,720	3,480,561	69,044	30,637
1906	165,151	1,876,834	3,111,013	58,683	33,427
1907	337,823	3,574,775	6,228,225	111,830	76,645
1908	330,812	2,400,997	5,499,381	69,501	113,853
1909	409,438	2,707,680	6,867,775	90,307	144,018

In connection with the above figures, it should be mentioned that, although the metallic contents are based on average assays, it is impossible to say what proportion of the bulk quantities was recovered. In the case of zinc contents the quantities have only been estimated when payment is allowed for them.

The greatest achievement in connection with silver-mining in this State is the profitable extraction of zinc from the immense heaps of tailings which have accumulated since the opening of the Broken Hill mines about twenty-five years ago. The formation of a company to recover the zinc contents of large quantities of tailings, and the steps taken by other mining companies, notably the Broken Hill Proprietary Company, have added greatly to the vast wealth of minerals extracted from this field, and indicate this State as one of the principal producers of spelter in the future.

The estimated quantities of silver, lead, and zinc contained in the sulphide ores won during the last seven years are as follows:—

Year.	Silver.	Lead.	Zinc.
	fine oz.	tons.	tons.
1903	8,226,201	121,999	14,911
1904	10,696,725	165,545	22,617
1905	10,285,495	162,226	31,181
1906	8,686,423	138,608	34,435
1907	12,149,682	191,700	77,629
1908	11,983,669	172,872	114,918
1909	10,584,791	155,128	144,018
	72,612,986	1,108,078	439,709

This State, however, is not entitled to take credit for the full value of the finished product, as large sums are expended outside New South Wales in extracting the silver, lead, and zinc. For this reason, the production of silver and lead is set down at the value of the quantities exported as declared to the Customs authorities.

The quantity and value of silver and silver-lead ore exported from New South Wales to the end of 1909 are shown in the following table:—

Period.	Silver.		Silver-sulphides, Silver-lead, and Ore.			Total Value.
	Quantity.	Value.	Quantity.		Value.	
			Ore.	Metal.		
	oz.	£	tons.	tons.	£	£
To 1885	1,730,297	382,884	7,074	191	237,810	620,694
1886-1890	2,481,253	464,081	165,756	94,002	6,478,515	6,942,596
1891-1895	3,009,187	445,873	663,754	231,847	12,615,432	13,061,305
1896-1900	2,352,092	269,663	1,771,983	86,005	9,592,856	9,862,519
1901-1905	4,154,020	445,051	1,877,515	108,353	8,910,586	9,355,637
1906	284,994	36,431	349,720	22,218	2,826,542	2,862,973
1907	2,043,887	257,314	413,720	20,360	3,658,632	3,915,946
1908	2,490,163	253,920	358,730	.....	1,906,275	2,160,195
1909	1,718,005	168,974	269,306	.....	1,484,641	1,653,615
Total...	20,263,898	2,724,191	5,877,558	562,976	47,711,289	50,435,480

The production in 1909 is much lower than in previous years; this is a result of the miners' strike, which extended over the first five months and involved, principally, two mines which hitherto have contributed a large proportion of the annual production. In one of these mines underground operations were not resumed during the year.

As the bulk of the silver has been exported in the form of silver-lead bullion and ore, it is impossible to ascertain the quantity of pure silver won except for the last seven years. The net value of the ores won during these years is set down at £16,653,724, and from the tables already given it will be seen that the estimated gross silver and lead contents amounted to 72,612,986 oz. fine and 1,108,078 tons respectively; but owing to the absence of similar data for previous years, also to the great improvements effected during recent years in the method of extraction and treatment of the ores generally, it is impossible to state with any degree of accuracy the metallic contents of the total production of the State.

Owing to the steady fall in the price of the metal, which had already set in before the opening up of the Broken Hill mines, and which, after a slight recovery in 1890, has continued with slight fluctuations, the value of the output has greatly diminished. In 1890 the price of silver was 47½d. per oz. standard; in 1893, when the Indian mints were closed, the price was 35½d., and this fell to 29d. in 1894; in 1909 the average for the year was only 23d. per oz. The variations in the price of lead have likewise affected the value of the output. From 1904 nearly to the end of 1907 the price rose with corresponding benefit to the industry; but in 1908 the prices of silver, lead, and zinc dropped considerably, and have not since improved.

The number of miners engaged in silver and silver-lead mines in 1909 was 6,207, and the average value of mineral won per miner engaged was £266 8s. 3d. A comparison with the figures of the last ten years is afforded by the following table:—

Year.	Miners.	Value of Silver and Lead won.	
		Total.	Per Miner.
	No.	£	£ s. d.
1900	8,196	2,604,117	317 14 7
1901	6,298	1,854,463	294 9 1
1902	5,382	1,440,179	267 11 10
1903	6,035	1,501,403	248 15 8
1904	7,071	2,065,540	292 2 3
1905	7,887	2,494,052	316 4 6
1906	9,414	2,862,973	304 2 5
1907	10,021	3,915,946	390 15 6
1908	7,560	2,160,195	285 14 10
1909	6,207	1,653,615	266 8 3

The total number of accidents which occurred in the silver-mines of the State in 1909 was 28, 11 persons losing their lives, while 17 were seriously injured. Cases of slight injury are not recorded.

COPPER.

The principal deposits of this metal are found in the central part of the State, between the Macquarie, Bogan, and Darling Rivers. Deposits occur also in the New England and Southern districts, as well as at Broken Hill, thus showing a wide distribution. The copper-mining industry is of considerable importance, and reached its highest point of production in 1906, when the value of the output was £789,527. Until 1902, the year of highest production was 1883, when copper to the value of £472,982 was obtained; but in subsequent years the industry rapidly declined through the heavy fall in the price of the metal. In 1894, the production was valued only at £63,617, which marked the lowest point of depression in the copper market, the average price for the year being only £40 per ton. During the last decade copper mining has shown very satisfactory progress, and the average production is much in advance of that of any other decennial period. During 1904 the output was valued at £406,001, as compared with £462,640 for the previous year, due mainly to the temporary cessation of productive work at one of the principal mines in the Burruga district. With copper at a high price, it was to be expected that the mining for this metal would come in for considerable attention. The value of the copper production during 1909 was £424,737, as compared with £502,812 for the previous year—a decrease of £78,075. The production during 1906 largely exceeds that of any other year. The decrease in the value since 1907 is attributed to the great fall in the price of the metal and to the lessened output from the Cobar district. In 1909 the Lloyd copper mine, in the Burruga district, was closed pending the provision of facilities for transport. The copper lodes of New South Wales contain ores of a very much higher grade than those of many well-known mines worked in other parts of the world, and, with a fair price,

should return satisfactory results. The net export of copper, which is taken as the production of the State, is shown below from the year 1858:—

Period.	Value.	Period.	Value.
	£		£
1858-1879	1,067,670	1906	789,527
1880-1884	1,554,326	1907	727,774
1885-1889	778,804	1908	502,812
1890-1894	454,765	1909	424,737
1895-1899	1,286,094		
1900-1904	2,014,040	Total ... £	10,127,952
1905	527,403		

The most important mines are those of Cobar, where the Great Cobar, which recommenced work early in 1894, is the principal mine.

The output of metals from this district during the last six years is shown hereunder:—

Metals.	1904.	1905.	1906.	1907.	1908.	1909.
	£	£	£	£	£	£
Gold	262,213	231,418	224,052	229,143	272,204	246,567
Silver	5,033	9,366	10,034	10,117	9,343	5,991
Copper	236,510	444,858	516,320	474,681	347,429	253,378
Lead ... ..	.....	3,000	17,416	4,258	.....	.....
Totals	503,756	688,642	767,822	718,199	628,976	505,936

In other portions of the Cobar district considerable activity has been displayed. At Nymagee very satisfactory progress has been made, and copper to the value of £236,845 was produced during the three years, 1905, 1906, and 1907; but in 1908 operations were suspended, since the low market prices, combined with the heavy cost of transport, rendered it impossible to treat the ore profitably. Recent developments favour the opinion that the auriferous copper ores at the Cobar gold-mines and other mines will in future be worked in conjunction with one or other of the richer copper mines of the district. The net value of the output of the Cangai mine, in the Copmanhurst district, in 1909, was £39,052.

The total number of miners engaged in copper-mining in 1909 was 2,024, as against 2,745 in 1908, 3,764 in 1907, 3,047 in 1906, and 2,171 in 1905. It may be mentioned that the number of men finding employment in 1896 was only 810; this figure rapidly increased to 3,334 in 1900, but fell away to 2,964 in 1901, and to 1,699 in 1902. There were 4 fatal accidents recorded in copper-mining in 1909, and 14 miners were seriously injured.

TIN.

Lode tin occurs principally in the granite country, and stream tin under the basaltic formation, in the extreme north of the State—at Tenterfield, Emmaville, Tingha, and in other districts of New England. The metal has also been discovered in the Barrier district, at Poolamacca and Euriowie; near Bombala, in the Monaro district; at Gundle, near Kempsey; at Jingellic and Dora Dora, on the Upper Murray; and in the valley of the Lachlan; but in none of these districts has it been worked

to any extent. Although the first discovery was made by the Rev. W. B. Clarke as far back as 1853, the opening of tin-fields did not take place until the year 1872. The value of production since that date has been as follows:—

Period.	Value.	Period.	Value.
	£		£
1872-1879	2,015,407	1905	226,110
1880-1884	2,194,533	1906	255,744
1885-1889	1,415,374	1907	293,305
1890-1894	677,392	1908	205,447
1895-1899	342,503	1909	211,029
1900-1904	617,446		
		Total...£	8,454,290

Tin has contributed in a very considerable degree to the total production of the mineral wealth of the State, and in point of value its aggregate yield stands in the fifth place, next to coal, gold, silver, and copper. From the opening of the fields the production increased rapidly until 1881, when in value it was almost equal to the output of gold for the year, and but slightly behind coal. During the interval from 1881 to 1902 the industry experienced several vicissitudes, chiefly owing to dry weather and fluctuations in the price of the metal.

The increased production since 1902 is due to the activity which has characterised tin-mining on the various fields throughout the State, owing to the satisfactory prices obtained. But in the last two years the value of the output showed a considerable decrease, due to the drop in the market price and to the lesser output of ore principally from the dredges in the Tingha division. A feature of the industry is the success achieved by the operations of the dredges, which produced nearly 70 per cent. of the total yield during 1909. The principal leads worked during the year were at Tingha; at Vegetable Creek, near Emmaville; at Deepwater; and at Wilson's Downfall.

Dredging for tin-ore has become a firmly-established industry, and during 1909 twenty pump dredges, operating on the stanniferous gravels in the Tingha and Inverell divisions, recovered 1,030 tons of stream tin, valued at £88,702. Six plants operating in the Emmaville division obtained 405 tons of stream tin as the result of the year's work; the value is set down at £36,923. The dredges operating in the Wilson's Downfall division recovered 166 tons, valued at £14,784. There were also several smaller plants operating in the Deepwater, Bendemeer, and Germanton divisions; and, in addition, a quantity of stream tin was saved by several of the gold dredges. In all, tin-ore to the extent of 1,677 tons, valued at £146,842, was recovered during 1909, an increase in value of £16,890 being shown as compared with the output from this source in the previous year. Within the thirty-seven years that have elapsed since the opening of the tin-fields, the value of the net export, which is regarded as the production, has been £8,454,290.

In the alluvial tin-fields of Tingha and Emmaville, the number of Chinese engaged in this industry has in some years greatly exceeded that of the Europeans. In 1909, however, the total number of tin-miners was 2,037, of whom only 349 were Chinese; and in the previous year 2,456 were employed, 2,076 being Europeans and 380 Chinese.

No fatal accidents occurred during 1909 in tin-mining.

IRON.

Iron is widely diffused throughout the State, and occurs principally in the form of magnetite, brown hematite or goethite, limonite, and bog-iron; deposits of chrome iron are also found. Magnetite is the richest

of all the iron ores, and, when pure, contains a little over 72 per cent. of available metallic iron, though it is not often found reaching this very high percentage. The results of a number of analyses made from deposits at Brown's Creek, in the county of Bathurst, where veins have been opened out, show that the samples of ore yielded from 48·83 to 61·30 per cent. of metallic iron.

Brown hematite or goethite occurs in very extensive deposits in the Blue Mountain and Macquarie Ranges, the principal centres explored being situated at Mittagong, Picton, Berrima, Cadia (near Orange), Lithgow Valley, Wallerawang, in the Rylstone and Mudgee districts, and in the vicinity of Port Stephens. The results of a number of analyses of this kind of ore denote that it is very rich in metallic iron, containing a proportion of 42·69 to 64·48 per cent., and in the majority of cases over 45 per cent. of metal. A sample of hematite from the Maitland district contained 60·83 per cent. of metallic iron, and another from Mount Pleasant, near Wollongong, analysed during 1891, gave 54·28 per cent. of iron. The value of these deposits is enhanced by their almost invariable occurrence in proximity to limestone and coal beds. It is fortunate, also, that the main lines of railway pass through the regions where the deposits are most easily worked.

Limonite—a variety of brown hematite—occurs principally at Lithgow, Eskbank, and Bowenfels, in the Blue Mountains; in several parts of the Hunter River coal-field; and at Bulli, in the Illawarra district. This ore is usually found very rich in metal, and contains an average of over 50 per cent. of iron, while the English clay bands, which are mostly carbonates, contain only about 30 per cent. of metallic substance. It occurs in lenticular layers of no great extent, in the Coal Measures. Bog-iron ore, which is impure limonite, is found principally at Mittagong; and assays of this ore gave a percentage of metal of more than 45 per cent.

The following table, taken from a report furnished during 1905 by Mr. E. F. Pittman, Government Geologist, gives the description and estimated quantity of iron-ore available in the various districts of New South Wales where the deposits occur:—

District.	Description of Ore.	Estimated minimum quantity of Ore.
		tons.
Bredalbane	Brown ore and hematite	700,000
Cadia	Specular hematite, magnetite, and carbonate ore.	39,000,000
Carcoar	Hematite and brown ore	3,000,000
Chalybeate Spring — Deposits of Southern District.	Brown ore	1,510,000
Cowra	Magnetic ore	100,000
Goulburn	Brown ore	1,022,000
Gulgong	Magnetic ore	120,000
Mandurama and Woodstock	Brown ore	609,000
Marulan	Brown ore and hematite	40,000
Mudgee	Brown ore with manganese... ..	150,000
Newbridge, Blayney, and Orange	Brown ore and magnetic ore	150,000
Queanbeyan	Magnetic ore	1,000,000
Rylstone and Cudgegong	Brown ore	443,000
Wallerawang and Piper's Flat	Brown ore	200,000
Williams and Karuah Rivers... ..	Titaniferous magnetic ore	1,973,000
Wingello	Aluminous ore	3,000,000
	Total	53,017,000

The Cadia ironstone beds—14 miles from Orange—have proved the most extensive yet examined. The ore consists of two classes, oxidised and unoxidised, the former of which consists of hematite and magnetite, and contains from 57 to 61 per cent. of metallic iron. A large proportion of the ore is of excellent quality and suitable for the manufacture of steel by the ordinary Bessemer and other acid processes, and compares favourably with some of the best American ores.

The deposits at Carcoar include brown ore, hematite, and magnetite. It is estimated that at least 3 million tons of ore are in sight, and it is probable that the deposit is capable of yielding 10,000,000 tons, or even a larger quantity, the ore containing about 52·67 per cent. of metallic iron.

A large amount of iron ore has been raised from the deposits situated in the Marulan, Goulburn, Bredalbane, Mittagong, and Carcoar districts, and despatched to the smelting works at Dapto and Cockle Creek, where it has been used as flux, the gold contents of the ore helping to defray the extra cost of railway carriage. The estimated quantity of ironstone flux raised during the last five years is shown in the following table:—

Year.	Quantity.	Value.
	tons.	£
1905	6,801	4,525
1906	935	723
1907	10,659	7,707
1908	8,087	6,199
1909	4,339	3,471

The decreased output in 1905 is due partly to the closing down of the smelting works at Dapto. Only 935 tons, valued at £723, were obtained during 1906, and used at Cockle Creek Smelting Works. The establishment of ironworks at Eskbank resulted in a greatly increased output in 1907. The requirements of the smelting companies were on a lessened scale during 1909, and the quantity of ironstone flux consequently shows a decrease. Parcels of iron oxide are still sent from the Fitzroy and other ironstone deposits in the Mittagong and Port Macquarie districts to the various gas-works of the Australian States and New Zealand, where it is used in purifying gas.

ANTIMONY.

Deposits of antimony occur in the State in various places, chiefly in the Armidale, Bathurst, and Rylstone districts; and at Bowraville, on the North Coast. The principal centre of this industry is at Hillgrove, near Armidale, where the Eleanora Mine, one of the richest in the State, is situated. The output during 1909 was confined mainly to this district, and was obtained principally in the course of mining for scheelite, with which the antimony was associated. The results of a number of analyses of antimony ore, made by the authorities of the Geological Museum, show from 16·5 to 79·45 per cent. of metal; but, notwithstanding these encouraging assays, the price has never been, until recently, sufficiently high to stimulate production to any extent. The satisfactory price of the metal, which rose to £25 per ton in May, 1906, caused the reopening of numerous long-abandoned claims, and mining operations were carried on with great activity throughout the year on the Hillgrove field, and also at Bowraville, where several leases have been secured. The value locally of 50 per cent. ore during the first three months of 1907 was £25 per ton; by the end of May, however, the value had receded to £5 per ton; and with the exception of a sudden rise to £12 in October,

it remained low. The supplies consequently fell off, and at the end of the year no ore was coming forward. The price has shown no improvement, and consequently very little work has since been done. Prospectors were successful in obtaining small quantities of ore in the Kookabookra, Uralla, Maitland, and Barraba divisions, and in the Copmanhurst district. A considerable quantity of ore was raised some years ago at the Corangula Mines, in the Macleay district, but these are at present closed down. Lodes have also been opened and partly worked near Nambucca, Drake, Gulgong, and Razorback. The value of antimony raised during 1909 was £1,711, as compared with £46,278 in 1907. The total quantity raised up to the end of 1909 is estimated at 16,329 tons, valued at £301,409.

MANGANESE.

Deposits of manganese ore have been discovered in various places. Pyrolusite, in the form of black oxide and manganese dioxide, occurs principally in the Bathurst districts and at Bendemeer. Wide veins have also been found in the Glen Innes district, near the Newton Boyd road. Some of the specimens analysed have yielded a very high percentage of metal; but the demand for manganese in the State is very small, and unless it increases, or until a foreign market is found, the rich deposits of this ore will remain comparatively untouched. The ore is found extensively in conjunction with iron in coal and limestone country, and often contains a small percentage of cobalt.

The value of manganese raised to the end of 1909 is stated at £1,662, the last year of production being 1908, when only 2 tons, valued at £7, were raised.

BISMUTH.

Bismuth is found associated with molybdenum and gold, in quartz-veins, chiefly in the neighbourhood of Glen Innes. The principal mines are situated at Kingsgate, the mineral occurring in a granite formation, associated with molybdenum, mispickel, and tin. The total quantity of this metal exported during 1909 was 8 tons, valued at £1,624. Rich argentiferous ores have been obtained, the lodes consisting of soft granular felspar matrix, impregnated with blotches of bismuth, molybdenum, and chloride of silver. The largest mass of native bismuth yet discovered in the State weighed nearly 30 lb., and was obtained in the Kingsgate mine. The value of this metal exported up to the end of 1909 was £123,523.

MOLYBDENUM.

Molybdenite, the principal ore of molybdenum, occurs most plentifully in pipe-veins at Kingsgate, near Glen Innes, and in the Jingera Mineral Proprietary mines at Whipstick, near Pambula; in both these localities it is associated with ores of bismuth. Molybdenum is used chiefly in the preparation of special steels, its influence being similar to that of tungsten, but it gives greater toughness, and the steel so treated is more readily worked when hot, and stands hardening better than tungsten steel. The output during 1909 was confined to the Kingsgate district, the quantity exported during the year being valued at £3,249, as compared with £929 in 1908.

PLATINUM.

Platinum and the allied compound metal iridosmine have been found, but so far in inconsiderable quantities, the latter occurring commonly with gold or tin in alluvial drifts. Mining operations were confined in 1909 to the Fifield gold-field, in the Parkes district, where the metal is

found associated with the gold in washdirt. The total yield of platinum for the year was 440 oz., as compared with 135 oz. in 1908. The Fifield platinum occurs in coarse, shotty grains. The quantity of platinum produced during 1909 was valued at £1,720, and to the end of that year, £20,713.

CHROMIUM.

Chromium, usually associated with serpentine, is found in the northern portion of New South Wales, in the Clarence and Tamworth districts, also near Gundagai; the principal mines are at Mount Lightning, in the Mooney Mooney Ranges, about 18 miles from Gundagai. The chrome mining industry is of very recent date, but the low price obtainable has prejudicially affected the industry. The quantity produced during 1899—5,243 tons, valued at £17,416—is the highest recorded as the annual output. In 1900 the production fell to 3,285 tons, valued at £11,827, the decrease being due to the exhaustion of the smaller deposits. During 1907, only 30 tons, valued at £105, have been disposed of for use in the lining of furnaces. The mines were not worked during the last two years. The production up to 1909 was 30,663 tons, valued at £101,108.

OTHER METALS.

Mercury, in the form of cinnabar, has been discovered on the Cudgegong River, near Rylstone, and it also occurs at Bingara, Solferino, Yulgilbar, and Cooma. In the latter place the assays of ore yielded 22 per cent. of mercury. As an encouragement in the search for quicksilver ores, the Government has offered to pay a reward of £500 to the first person or company producing 50,000 lb. of quicksilver from ores raised in New South Wales. During 1903, 40 tons of ore were treated, yielding 1,010 lb. of quicksilver, valued at £126; but there has been no further production.

Deposits of cobaltiferous minerals have been found at Bungonia, Carcoar, and Port Macquarie; but the market for the metal is small, and no attempt has yet been made to produce it on a large scale. The only deposits worked during recent years are at Port Macquarie, where the ore occurs in nests or pockets in serpentine and the overlying clays resulting from its decomposition; but as the ore is of irregular occurrence, and does not permit of profitable working, operations were discontinued during 1904. An average sample assayed cobalt oxide 7.48, and nickel oxide 1.36, and a picked sample showed cobalt oxide 7.03, and nickel oxide 2.39 per cent. The output of cobalt during 1909 was valued at £55. The value of the total production to the end of 1909 was £8,010.

Tellurium has been discovered at Bingara and other parts of the northern districts, as well as at Tarana, on the Western line, though at present only in small quantities, which would not repay the cost of working. It has also been found at Captain's Flat, in association with bismuth.

Selenium has been discovered at Mount Hope, also in association with bismuth.

Wolfram and scheelite, generally associated with other minerals, such as tinstone (cassiterite), bismuth, and molybdenite, occur in many districts. The deposits, as a rule, have been found too patchy for profitable working, and as the market is limited, very little has been done in the way of production. The steady demand that has existed during the last few years for tungsten ores has, however, stimulated the search for payable deposits, especially in the Peel, Uralla, and New England districts. Practically all the scheelite was produced in the Hillgrove district

during 1909, the ore being of good quality and carrying a large percentage of tungstic acid. During that year 193 tons, valued at £14,618, were exported. Wolfram ore was obtained mainly in the vicinity of Deepwater and Emmaville. The quantity exported during 1909 was 127 tons, valued at £11,249.

Deposits of pigments are found near Mudgee and Dubbo, and also in the Orange district, where a fair quantity of the raw material, consisting principally of purple oxide and yellow ochre, has been produced.

MINERALS—COAL.

Coal constitutes the most important of the many mineral resources of the State, and the coal-fields are of much greater importance as to area and as to quality of the coal than in any other part of Australia. The area over which the mineral is distributed in this State extends to 28,000 square miles; but the limit within which the coal measures are considered payable is estimated at 16,550 square miles. In the opinion of the Government Geologist, the quantity of coal underlying this area, down to a depth of 4,000 feet, is 115,347 million tons. This estimate allows for one-third loss in working; but no account has been taken of the coal measures of the Clarence basin, nor of the area to the west of a line stretching from Dubbo to Texas. The coal in these districts is probably suitable for local requirements; but its quality is not sufficiently good for the purposes of export, and it would be expensive to work, on account of the numerous bands of shale which occur in the seams.

At present the coal-mining industry is confined to those centres which, from their close proximity to ports of shipment and to the railway lines, afford ready means for distribution.

In 1826, the Australian Agricultural Society obtained from the Crown a grant of 1,000,000 acres of land, together with the sole right of working the coal-seams which were known to exist in the Newcastle district. Several mines were opened, with profitable results for a number of years; but it was not until the expiration, in 1847, of the monopoly enjoyed by the company, that the coal-mining industry showed signs of extensive development.

During that year the output of coal reached a total of 40,732 tons only, valued at £13,750. Six years afterwards the production was doubled, and the output has rapidly increased year by year, until coal-mining is now one of the staple industries of the State, the production for the year 1909 amounting to 7,019,879 tons, valued at £2,618,596, being 2,127,146 tons and £734,497 in value less than the preceding year. The decrease in production is due to a combination of causes, but principally to industrial troubles and lack of trade. The average price secured was 7s. 5d. per ton. The total production to the end of the year 1909 was 154,845,053 tons, valued at £59,250,850.

In view of its wealth in coal, New South Wales possesses an immense advantage in the development of manufacturing industries, as it naturally follows that the largest coal-producing countries are the greatest manufacturers. Newcastle, the centre of the local coal trade, fitted with all the requirements of a busy port, is peculiarly well situated to supply the other Australian States and foreign countries; and the Government has erected extensive wharves, fitted with the latest appliances in cranes and other necessary machinery, to facilitate shipment.

The markets of the State are likewise supplied with excellent coal from the seams worked in the Illawarra district, the product of which is exported in large quantities.

The deposits which have been found in the Blue Mountains, near the line of railway, at Katoomba, Lithgow, Wallerawang, and elsewhere, supply a portion of the requirements of Sydney and other industrial centres in its neighbourhood, as well as part of the western districts of the State. Coal is also obtained in the Berrima district, whence a large quantity for consumption in the southern parts of the State is obtained.

The coal production during 1909 was affected by a general strike of the miners on the 9th November, 1909. With the exception of the collieries in the Western district, which resumed work on the 21st December, and one or two small mines in the other districts, the suspension of coal-getting operations continued at the end of the year. It is estimated that the strike caused a reduction of a million tons in the output. There were also some local disputes earlier in the year at several collieries.

The number of coal-mines under inspection in New South Wales at the end of the year 1909 was 119, which gave employment to 18,168 persons, of whom 13,915 were employed underground and 4,253 above. The average quantity of mineral extracted per miner was 504 tons, as against an average of 669 tons for the previous year, and 648 tons for 1907.

The quantity of coal raised in New South Wales and the number of coal-miners employed during each of the last ten years are stated below. Calculated on the total value of the production during the decade, the average quantity of 602 tons extracted yearly by each person employed underground represents a value of £206, and for the total number of persons employed, 471 tons, valued at £161. In 1909 the average value of production was £186 for each person employed underground, and £144 for each person employed in any capacity about the mines:—

Year.	Persons employed in and about mines.	Persons employed underground.	Quantity of Coal raised.		Value of Coal raised.		
			Total.	Per person employed underground.	Total value.	Average value per ton.	Average value per person employed underground.
	No.	No.	tons.	tons.	£	s. d.	£
1900	11,333	9,000	5,507,497	612	1,668,911	6 1	185
1901	12,191	9,644	5,968,426	619	2,178,929	7 4	226
1902	12,815	10,050	5,942,011	591	2,206,598	7 5	220
1903	13,917	10,910	6,354,846	582	2,319,660	7 4	213
1904	14,034	11,122	6,019,809	541	1,994,952	6 7	179
1905	14,019	11,054	6,632,138	600	2,003,461	6 1	181
1906	14,929	11,588	7,626,362	658	2,337,227	6 2	202
1907	17,080	13,369	8,657,924	648	2,922,419	6 9	219
1908	17,734	13,664	9,147,025	669	3,353,093	7 4	245
1909	18,168	13,915	7,019,879	504	2,618,596	7 5	186
Average for 10 years	14,622	11,431	6,887,592	602	23,603,846	6 10	206

A very satisfactory feature of the coal trade is the increasing quantity taken for local use, indicative of greater industrial activity; the increase is due to the growing requirements for smelting and other purposes.

Northern District.—In the Northern or Hunter River District, the number of collieries under official inspection in 1909 was 79, employing 13,286 persons, 10,102 of whom were miners, wheelers, &c., employed

underground. The quantity of coal raised amounted to 4,801,361 tons, valued at £1,990,217, or 68 per cent. of the whole production of New South Wales.

The following table shows the growth of the coal industry within the last ten years in the Hunter District; the number of men employed and the quantity of coal raised have increased steadily during the period:—

Year.	Persons employed in and about mines.	Persons employed underground.	Quantity of Coal raised.		Value of Coal raised.		
			Total.	Per person employed underground.	Total value.	Average value per ton.	Average value per person employed underground.
	No.	No.	tons.	tons.	£	s. d.	£
1900	8,555	6,817	3,926,584	576	1,246,011	6 4	183
1901	9,157	7,258	3,999,252	551	1,669,519	8 4	230
1902	9,730	7,588	3,900,297	514	1,633,062	8 4	215
1903	10,461	8,161	4,410,565	540	1,783,409	8 1	219
1904	10,450	8,217	4,042,739	492	1,450,300	7 2	176
1905	10,505	8,265	4,645,742	562	1,473,095	6 4	178
1906	11,005	8,478	5,336,188	629	1,718,178	6 5	203
1907	12,486	9,692	6,058,580	625	2,231,901	7 4	230
1908	13,228	10,064	6,511,002	647	2,625,446	8 1	261
1909	13,286	10,102	4,801,361	475	1,990,217	8 3	197

Southern and South-western District.—In this district there were in 1909 nineteen collieries under official inspection, giving employment to 3,818 persons, of whom 2,999 were at work underground. These numbers exhibit an increase of 231 persons employed in and about the mines, and of 136 underground workers, as compared with those so engaged in 1908. There was a decrease of 309,561 tons in the production, the total quantity raised during the year being 1,619,675 tons, valued at £485,300. Owing to the demand for southern coal for steam purposes, the trade of this district has greatly improved during recent years, and the increase would doubtless have been more pronounced but for the difficulty experienced in loading. To remove this drawback, the Government is making a harbour at Port Kembla, a few miles south of Wollongong. The work involves the construction of an eastern breakwater 2,800 feet long, and the necessary shipping appliances, at a cost of £220,000, and when these are completed shipping operations will be greatly facilitated. At the 30th June, 1909, 2,300 feet of the breakwater had been completed, and the jetties from which coal is shipped are already experiencing considerable protection from the effects of the south-easterly and easterly gales that affect the coast. In 1908 the construction of a northern breakwater was commenced.

The history of coal production in the Southern district for the last ten years may be gathered from the following table:—

Year.	Persons employed in and about mines.	Persons employed underground.	Quantity of Coal raised.		Value of Coal raised.		
			Total.	Per person employed underground.	Total value.	Average value per ton.	Average value per person employed underground.
	No.	No.	tons.	tons.	£	s. d.	£
1900	2,324	1,802	1,265,055	702	344,812	5 5	191
1901	2,499	1,946	1,544,454	794	407,196	5 3	209
1902	2,545	1,988	1,588,473	799	458,851	5 9	231
1903	2,887	2,255	1,476,005	654	418,919	5 8	186
1904	3,044	2,450	1,558,383	636	436,640	5 7	178
1905	3,050	2,397	1,556,678	649	421,768	5 5	176
1906	3,249	2,540	1,783,395	702	494,871	5 7	195
1907	3,410	2,671	1,835,425	687	515,786	5 7	193
1908	3,587	2,863	1,929,236	674	570,022	5 11	199
1909	3,818	2,999	1,619,675	540	485,300	6 0	162

Western District.—In the Western District, in 1909, there were 21 collieries under official inspection, giving employment to 1,064 persons, of whom 814 were at work underground. From the subjoined table, it is apparent that the output has largely expanded during the period 1900-8, the increase being due to more regular work, and to the absence of labour troubles, which retarded operations in the earlier years, and caused the large decrease in 1909.

The average quantity of coal raised per miner is much greater in the Western collieries than elsewhere in the State. This is due to a variety of causes, but chiefly to the greater thickness of the seams, the friable character of the coal, and the accessibility of the coal beds. In some cases the coal is worked by means of adits or tunnels, so that the facilities for winning the mineral are much greater than in the Newcastle mines, where shafts must be sunk in most instances. But though the output is greater per miner than in the other coal-mining districts, the price for hewing is lower, so that the earnings of the individual miner do not differ greatly wherever the mine is situated.

The following table shows the growth of coal production in the Western district during the last ten years. Situated in close proximity to the principal iron-fields of New South Wales, the prospects of these mines are extremely favourable since the manufacture of iron from the ore is now carried on in this part of the State:—

Year.	Persons employed in and about mines.	Persons employed underground.	Quantity of Coal raised.		Value of Coal raised.		
			Total.	Per person employed underground.	Total value.	Average value per ton.	Average value per person employed underground.
	No.	No.	tons.	tons.	£	s. d.	£
1900	454	381	315,858	829	78,088	4 11	205
1901	535	440	424,720	965	102,214	4 10	232
1902	540	474	453,241	956	114,685	5 1	242
1903	569	494	468,276	948	117,332	5 0	238
1904	540	455	418,687	920	108,012	5 2	237
1905	464	392	429,718	1,096	107,698	5 0	275
1906	675	570	506,779	889	124,178	4 11	218
1907	1,184	1,006	763,919	759	174,732	4 7	174
1908	919	737	706,787	959	157,625	4 6	214
1909	1,064	814	598,843	736	143,079	4 9	175

The following table shows the average price of coal per ton in the various districts for the last ten years; in the average for New South Wales, allowance has been made for the quantity raised in each district:—

District.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Northern ...	6 4	8 4	8 4	8 1	7 2	6 4	6 5	7 4	8 0	8 3
Southern ...	5 5	5 3	5 9	5 8	5 7	5 5	5 7	5 7	5 11	6 0
Western ...	4 11	4 10	5 1	5 0	5 2	5 0	4 11	4 7	4 6	4 9
New South Wales	6 1	7 4	7 5	7 4	6 8	6 0½	6 1½	6 9	7 4	7 5

ACCIDENTS IN COAL MINES.

There were 14 persons killed and 142 injured in coal and shale mines during 1909, the number of cases terminating fatally being 7 less than in the previous year. These figures are obtained from the official records of the Department of Mines; but the report of the Miners' Accident Relief Board shows that the cases of temporary disablement in the coal and shale mines, subject to the Accident Relief Act, numbered 3,384 during last year. A considerable majority of these cases were of a very trivial nature, and to include them in the returns would convey an erroneous idea that the mines of this State are abnormally liable to accident. This subject is treated also in the chapter dealing with "Social Condition." For the decennial period ended 1908, the average annual loss of life in the British coal-mines was 1·30 per thousand, or at the rate of 226,964 tons of mineral raised for every fatal accident. In the New South Wales collieries, for the ten years ended 1909, the rate was 1·83 fatal accidents per thousand miners employed, and 258,589 tons of coal were raised for every life lost.

The number of accidents in the coal and shale mines of the State, with the proportion of miners to each fatal and non-fatal case, is given below, as well as the quantity of mineral raised to each life lost and person injured:—

Year.	Accidents.		Number of miners employed to each person.		Number of tons of mineral raised to each person.	
	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
1900	24	193	479	60	230,432	28,655
1901	17	207	730	60	354,306	29,098
1902	105	154	125	85	57,189	38,993
1903	13	121	1,086	116	491,509	52,807
1904	12	121	1,179	117	504,807	50,063
1905	24	115	589	123	277,932	58,003
1906	21	125	724	118	364,705	61,270
1907	17	160	1,021	108	512,074	54,408
1908	21	166	861	109	437,778	55,381
1909	14	142	1,326	131	504,899	49,779
Av'ge	27	150	546	97	258,589	46,078

The abnormal figures for 1902 were due to the explosion at Mount Kembla, which caused the deaths of 95 persons and injuries more or less serious to 14 others. The experience of coal-mining in this State with respect to accidents bears very favourable comparison with that of other countries.

The average annual number of fatalities in the coal and shale mines of various countries for the last available five years will be seen from the following table:—

Country.	Average Annual Number of—		Mortality per 1,000 Employed.
	Persons Employed.	Lives Lost.	
United Kingdom	903,340	1,182	1·31
United States	621,452	2,231	3·59
Prussia	507,311	1,009	1·99
France	175,280	404	2·30
Austria	121,546	142	1·17
Belgium	139,000	138	0·99
British Columbia	4,798	27	5·71
Nova Scotia... ..	11,557	27	2·30
<i>New South Wales</i>	<i>16,386</i>	<i>19</i>	<i>1·18</i>

MINERS' ACCIDENT RELIEF FUND.

The New South Wales Miners' Accident Relief Act, which came into force on the 1st January, 1901, applies to all mines in or about which fifteen or more persons are employed. A sum of 4½d. per week is deducted from the wages of each employee and paid by the manager of the mine to the treasurer of a committee for the mine. The committee for a mine consists of (1) an Inspector of Mines appointed by the Minister, (2) three persons appointed by the employees, and (3) two persons appointed by the owner or manager. The committee considers all applications for relief in cases of accident, and votes such allowances as appear warranted under the provisions of the Act. The fund is administered by a board consisting of six members, one of whom is the chairman, and the others representative of (1) owners of coal and shale mines, (2) owners of other mines, (3) persons employed in or about coal and shale mines, (4) persons employed in or about other mines, and (5) the Department of Mines. Payments into the fund consist of (1) the balances of deductions from wages unexpended by the committees in payment of allowances, (2) a quarterly contribution by the owner or owners of each mine equal to 50 per cent. of the aggregate amount deducted from the wages at such mine, and (3) a subsidy from the Consolidated Revenue Fund equal to the amount contributed by owners of mines. The Board makes advances to committees in cases where the sums deducted from wages are inadequate to meet allowances payable.

The Registrar of Friendly Societies valued this fund as at 30th April, 1905, and the outcome revealed such flourishing conditions that the benefits were increased in the various scales, and are now payable as follows:—

(I) In cases of fatal accident—(1) Funeral allowance, £12; (2) a weekly allowance of 10s. to the widow or other adult dependent upon the deceased for support; and (3) a weekly allowance of 3s. in respect of each child of the deceased or of each child of an adult dependent, payable until such child attains the age of 14 years.

(II) In cases of disablement—(1) A weekly allowance of 15s. until able to resume work; and (2) where disablement is permanent, a weekly allowance of 3s. in respect of each child under the age of 14 years.

For the period 1900-9 during which the Act has been in operation, the average annual number of employees contributing has been 23,964, the amount contributed being £210,286. During the same period the mine-owners have paid £101,201, and Government subsidy to the extent of

£101,201, and interest amounting to £35,713, have been received; the sum of £195,351 has been disbursed in allowances. Accumulated funds, amounting to £241,000, have been invested in New South Wales Funded Stock.

The result of the second quinquennial valuation, by the Registrar of Friendly Societies, of the Fund as at the 30th April, 1910, shows that the liabilities amounted to £219,903, and the assets to £246,921, the surplus of assets being £27,018. The beneficiaries on the Fund numbered 1,341 at the valuation date; 287 adults and 435 children were drawing allowances as the result of fatal accidents; 186 miners and 153 children in consequence of permanent disablement; the balance, 280, being miners temporarily disabled.

PRODUCTION OF COAL.

The following table shows the quantity and value of coal raised from the earliest record to the close of 1909, the total production being 154,845,053 tons, valued at £59,250,851.

Period.	Quantity.	Average per ton.	Value.
	tons.	s. d.	£
Prior to 1880	20,697,747	10 8	11,036,723
1880-4	10,615,625	8 10	4,672,569
1885-9	15,490,611	9 2	7,077,864
1890-4	17,830,177	7 8	6,811,568
1895-9	21,334,976	5 8	6,048,281
1900-4	29,792,589	7 0	10,369,050
1905	6,632,138	6 1	2,003,461
1906	7,626,362	6 2	2,337,227
1907	8,657,924	6 9	2,922,419
1908	9,147,025	7 4	3,353,093
1909	7,019,879	7 5	2,618,596
Total	154,845,053	7 8	59,250,851

From 1883 to 1898 there was a general decline in prices, but in this respect coal has not differed greatly from other products. In the earlier years the fluctuations in prices to a large extent arose from uncertainty in the markets; this uncertainty no longer exists, for the local markets and those of the other States of Australia and New Zealand demand a large share of the coal raised. The proportion of the production taken by Australasia increases every year, and operates in the direction of steadying the price by removing the principal cause of fluctuation.

New South Wales was the chief customer during 1909, when, out of the total production stated above, the local consumption amounted to 2,626,276 tons, or 37·4 per cent. Victoria was the principal outside customer, taking 1,002,745 tons, or 22·8 per cent., of the total export of 4,393,603 tons.

The quantity of coal required for local consumption shows a satisfactory increase during most years, as will be seen from the following statement:—

Year.	Tons.	Year.	Tons.
1896	1,434,610	1903	2,638,652
1897	1,686,968	1904	2,846,942
1898	1,914,455	1905	2,914,085
1899	1,798,505	1906	2,664,822
1900	2,138,165	1907	2,914,417
1901	2,497,441	1908	3,048,349
1902	2,680,552	1909	2,626,276

The annual local consumption per head increased from 16 cwt. in 1877 to over 39·4 cwt. in 1904 and 1905. The larger use of steam for railway locomotives, for manufacturing, smelting, and other purposes, also the multiplication of gas-works, caused a great portion of the increase; but there is a large and growing demand for bunker coal for ocean-going steamers, which to the end of 1905 appears not as an export, but as required for home consumption. The figures given above for 1906 and subsequent years for local consumption are exclusive of bunker coal. The annual consumption per inhabitant in 1909 was 32·3 cwt.; on the same basis as for years previous to 1906, the figure would be 40·7 per head. The amount of bunker coal taken by steamers during 1909 was 1,151,532 tons.

No record has been kept of the quantity of bunker coal taken by steamers for the period ended with the year 1905, the amount having been included in the figures relating to home consumption. In order that the details of the coal supplied to customers abroad, given in the following table, may be comparable, only the coal taken away as cargo has been included:—

Country or Port.	1905.	1906.	1907.	1908.	1909.
	tons.	tons.	tons.	tons.	tons.
Victoria	922,906	916,971	966,018	1,153,265	951,994
Queensland	41,050	53,587	67,972	59,477	48,150
South Australia	525,317	478,485	548,764	586,983	460,737
Western Australia	185,250	169,853	147,497	146,502	110,859
Tasmania	103,301	100,525	90,814	105,722	89,767
Total, Interstate	1,777,824	1,719,421	1,821,065	2,051,949	1,661,507
New Zealand	292,831	215,503	221,094	285,043	240,345
Fiji	54,591	19,519	33,114	44,649	31,623
Straits Settlements	82,836	215,762	142,795	217,809	150,380
India	72,646	46,042	52,835	164,352	68,027
Hong Kong	94,762	70,668	63,623	86,632	40,277
Mauritius	12,197	12,237	1,001	791	3,475
South Africa	14,005	4,150	1,800	1,249	1
Canada	12,762	.....	1,014	.....	1,841
United Kingdom	23,348	.....	.....	48	29
New Guinea	2,610	1,190	.....	422	691
Other British Possessions	1,450	977	13,452	23,956	69
Total, British Possessions	664,038	586,048	530,728	824,951	536,758
Chili	462,975	601,044	878,012	789,620	469,420
United States	100,705	83,511	539,876	188,498	106,777
Philippine Islands	271,693	312,996	314,235	351,441	224,651
Hawaiian Islands	119,245	90,635	98,530	65,918	65,769
Peru	92,124	109,278	101,131	78,223	41,450
Java	47,350	66,342	37,784	87,226	64,160
Mexico	46,528	74,737	50,312	55,732	18,522
Panama	11,019	11,906	6,402	15,528	.....
New Caledonia	18,192	12,294	12,816	10,079	6,228
South Sea Islands	10,341	5,893	4,172	5,911	6,019
Ecuador	14,257	15,484	7,519	36,092	12,734
China	39,492	71,794	41,058	43,394	15,608
Other Foreign Countries	42,270	15,419	21,932	5,753	12,468
Total, Foreign Countries	1,276,191	1,471,333	2,113,779	1,733,415	1,043,806
Grand Total	3,718,053	3,776,802	4,465,572	4,610,315	3,242,071

In the following statement are presented the results of a number of proximate analyses, made by the Government Geologist, of coals from the various districts of New South Wales:—

Districts.	Composition.				
	Hygroscopic Moisture.	Volatile Hydrocarbons.	Fixed Carbon.	Ash.	Sulphur.
	per cent.	per cent.	per cent.	per cent.	per cent.
Northern	1·93	35·13	54·14	8·80	0·54
Southern	0·97	23·10	65·26	10·67	0·46
Western	1·87	31·49	52·61	14·03	0·63
Average	1·74	32·43	56·07	9·76	0·53

Similar analyses of English coal are shown in the following table:—

Description of Coals.	Composition.				
	Moisture.	Volatile matter.	Fixed Carbon.	Ash.	Sulphur.
	per cent.	per cent.	per cent.	per cent.	per cent.
Anthracite	1·50	6·25	81·75	10·50	1·25
Bituminous	2·50	39·00	50·00	8·50	2·00
Semi-bituminous	2·00	18·25	71·25	8·50	1·75
Average Bituminous Coals	2·25	28·63	60·62	8·50	1·88

Excluding the Welsh anthracite—the best coal known for steaming purposes—the above analyses show that the New South Wales product, especially that obtained from the Southern and Northern mines, compares favourably as a heat producer with the average bituminous coals. In addition, it has the advantage of a greater specific gravity, while containing less sulphur. The mean specific gravity of the Northern district coals was 1·338, and of the Southern and Western coals 1·389, the mean of a number of samples of British coals being 1·279. The gas-producing qualities of New South Wales coal, especially that obtained from the Northern mines, are superior to those of English coal, but the latter has a slightly smaller percentage of ash. Southern coal is much used by the naval authorities on the Australian station and on the large ocean-going steamers, mainly on account of its cheapness, since the steam-producing power of the coal from the Northern districts of the State is almost equal to that of the Southern article.

COKE.

The quantities of coke manufactured in New South Wales during the last ten years were as follows:—

Year.	Quantity.				Total Value.
	Northern District.	Southern District.	Western District.	Total.	
	tons.	tons.	tons.	tons.	£
1900	49,374	76,839	.....	126,213	109,620
1901	35,939	92,943	.....	128,882	105,665
1902	24,219	102,653	.....	126,872	89,605
1903	34,730	125,862	.....	160,592	108,764
1904	31,825	139,181	.....	171,006	110,692
1905	25,329	137,632	.....	162,961	100,306
1906	55,991	130,069	.....	186,060	110,607
1907	31,453	210,614	12,542	254,609	159,316
1908	29,132	228,778	25,963	283,873	199,933
1909	23,564	155,443	25,267	204,274	137,194

Owing to the difficulty of obtaining regular supplies of coke, consequent upon the uncertainty relating to freights, the Broken Hill Proprietary Company erected coke works at Bellambi, on the South Coast Railway line; these supply a large proportion of the company's requirements, and are so arranged that duplication can be carried out at any time when it may be considered desirable. The Mount Lyell Copper Mining Company have also erected coke works at Port Kembla, on the South Coast. It would seem that coke of local manufacture has at last overcome the strong prejudice which existed, judging from the great increase in the production in the Illawarra district during the last decade. This is doubtless due to the greater care exercised in its manufacture, and to the employment of a better class of kiln and appliances for cleaning the coal.

At the old Bulli mine a coal seam 6 feet thick has been for about half its thickness transformed into a natural coke, apparently through the intrusion of igneous matter underneath the seam.

Considerable activity is now being displayed in the South Coast district, where there are eight works all fully employed, and when the good qualities of the locally-manufactured coke are fully recognised, the district will doubtless become a great manufacturing centre.

The question of the erection of coke ovens of a type which, in addition to making good coke, would also permit of the recovery of by-products and the utilisation of the waste gases, is one which requires more attention from colliery proprietors in this State. Great advances in this direction have been made in Great Britain, Germany, and the United States, and the results have been very successful.

KEROSENE SHALE.

This mineral is found in various parts of New South Wales, but principally at Hartley, Katoomba, Megalong, Bathgate, near Wallerawang, Joadja Creek, Berrima, Mount Kembla, Burraborang, and Greta, Colley Creek, near Murrurundi, in the Capertee district, and in the valley of the Wolgan River. The shale occurs in seams, or lenticular patches of varying extent, the largest hitherto discovered not exceeding 1 mile in length, and varying in thickness from a few inches to 6 feet. It is a species of torbanite or cannel-coal, similar to the boghead mineral of Scotland, but yielding a much larger percentage of volatile hydrocarbon than the Scotch mineral. The richest shale at the Joadja mine,

near Mittagong, yields about 130 gallons of crude oil per ton, or 15,400 cubic feet of gas, with an illuminating power equal to forty-eight sperm candles when gas only is extracted from the shale, and has a specific gravity of 1.098, while the best shale from Hartley Vale yields from 150 to 160 gallons of crude oil, or 18,000 cubic feet of gas of forty-candle power per ton. The specific gravity of the best specimens of Joadja Creek and Hartley shale is 1.06, the amount of sulphur 0.49 per cent., and the yield of tar 40 gallons per ton. It is very suitable for mixing with ordinary coal in the manufacture of gas, and is largely exported to Great Britain, America, and other foreign countries, as well as to the neighbouring States. On analysis, the following result was obtained from average specimens:—

Volatile Hydrocarbons, including moisture	82.50 per cent.
Fixed Carbon	6.50 „
Ash	11.00 „

The principal mines are controlled by the Commonwealth Oil Corporation, at Hartley Vale, New Hartley, and Wolgan. This company not only raises shale for export, but also manufactures petroleum oil and other products. The shale-getting operations are not at present on an extensive scale; but the company are erecting a large number of new retorts for the recovery of oil and other by-products, and when these are completed the output of shale will necessarily be considerably increased.

The production of kerosene shale from the opening of the mines in 1865 to the end of 1909 amounts to 1,422,019 tons, of the value of £2,217,185, as shown in the following table:—

Period.	Quantity.	Average Price per ton.	Total Value.	Period.	Quantity.	Average Price per ton.	Total Value.
	tons.	£ s. d.	£		tons.	£ s. d.	£
1865-84	370,217	2 4 9	828,194	1906	32,446	0 17 7	28,470
1885-89	186,465	2 3 7	406,255	1907	47,331	0 13 7	32,055
1890-94	247,387	1 16 6	451,344	1908	46,303	0 11 3	26,067
1895-99	191,763	1 3 3	222,690	1909	48,718	0 9 8	23,617
1900-04	213,163	0 16 8	177,246				
1905	38,226	0 11 1	21,247	Total ...	1,422,019	1 11 2	2,217,185

The features of this table are the steady fall in the average price of the mineral and the fluctuating production. There is no special reason for the rise and fall in the quantity of shale produced, beyond the irregular demand for export, and the slackening of mining operations while the mineral at grass is being reduced. Since 1902 the Genowlan and Joadja mines have been closed. During 1909 the mine at Wolgan was practically idle for seven months, owing to labour troubles.

At the shale mines in 1909 there were 298 men employed under ground and 103 above ground, or a total of 401.

DIAMONDS AND OTHER GEM-STONES.

The existence of diamonds and other gem-stones in the territory of New South Wales was recorded as early as 1851, but no definite industry has yet been founded in this connection. The diamonds occur in old Tertiary river drifts, and in the more recent drifts derived from them. The deposits, which occur in the Inverell, Bingara, Mittagong, Cudgegong, and Narrabri districts, are extensive, and have not yet been thoroughly prospected. The finest of the New South Wales diamonds are harder and

much whiter than the South African diamonds, and are classified as on a par with the best Brazilian gems. The largest stone secured in this State was found during 1905 at Werong, 30 miles from Oberon, and weighed $28\frac{5}{16}$ carats. There is a great difficulty in obtaining exact statistics of the production in New South Wales, which will continue until the industry becomes well established. The following table, compiled from the available information, can be regarded only as an approximation, and is believed to considerably understate the actual output. The majority of the diamonds have been obtained from the mines in the Bingara and Copeton (Tingha) districts:—

Period.	Carats.	Value.
	No.	£
1867-1885*	2,856	2,952
1886-1890	8,120 $\frac{1}{2}$	6,390
1891-1895	19,742 $\frac{3}{4}$	18,245
1896-1900	69,384 $\frac{1}{2}$	27,948
1901-1905	54,206	46,434
1906	2,827	2,120
1907	2,539	2,056
1908	2,205	1,358
1909	5,474	3,959
Total	167,354 $\frac{3}{8}$	111,462

* Estimated.

Other gem-stones, including the sapphire, emerald, oriental emerald, ruby, garnet, chrysolite, topaz, zircon, &c., have been found in the gold and tin-bearing drifts and river gravels in numerous localities throughout the State. Precious stones, such as amethyst, cairngorm, and onyx, with other varieties of agate, are occasionally found. In 1908 emeralds to the value of £1,700 were obtained at The Glen, in the Emmaville division. The largest stone in the rough weighed 60 carats. With this exception no gems have been produced during recent years.

The topaz is obtained largely at Oban, in the Glen Innes district, but the price obtained is very low.

Turquoises have been discovered at Mount Lorigan, near Wagonga, and work was carried on during the year 1895 by means of aid granted from the Prospecting Vote. In 1896, however, the mine was closed.

OPAL.

The finest opal known is obtained in the Upper Cretaceous formation at White Cliffs, near Wilcannia. It is difficult to state the extent of the production; but the following table shows the estimated value to the end of 1909:—

Year.	Value.	Year.	Value.
	£		£
1890	15,600	1901	120,000
1891	.....	1902	140,000
1892	2,000	1903	100,000
1893	12,315	1904	57,000
1894	5,684	1905	59,000
1895	6,000	1906	56,500
1896	45,000	1907	79,000
1897	75,000	1908	41,800
1898	80,000	1909	61,800
1899	135,000		
1900	80,000	Total ...	1,171,699

The decrease in the value since 1907 is caused by the decline in the market price.

The quality of the stone found on the fields varies considerably, some realising only 10s. per oz., whilst the best quality occasionally realises as much as £70 per oz. in the rough, but prices ranging from £5 to £20 per oz. are of frequent occurrence. The best market for the gems is Germany, where they are sold readily; but it is stated that the principal gem merchants of Europe have now agents on the fields for the purchase of the stone.

In 1896, opal was discovered at Purnanga, about 40 miles north-east of White Cliffs, but the scarcity of water has retarded development. Some very fine parcels of stone have been raised in this locality, and it is considered that Purnanga is the nucleus of a fine opal field should a good water supply become available. A new field near the Queensland border, and known as Wallangulla, produced opal valued at about £9,000. There is now a settled population on the Wallangulla field, and a considerable expansion of operations is expected.

OTHER MINERALS.

Mica is known to exist in many parts of New South Wales, but has never yet been worked, although there is a considerable demand for the article, especially if in blocks of fairly large size that could be split easily into thin plates. It is to be obtained in the numerous granitic areas which occur in various parts of the State, especially in the coarsely-crystalline granitic formations in the Silverton district, and elsewhere in the Barrier Ranges.

Asbestos has been found in veins in serpentine in the Gundagai, Rockley, and Barrier Range districts—in the last-named in considerable quantities. A trial parcel of asbestos from the Gundagai district was sent to Europe during 1909, and, if reports are satisfactory, mining operations will be started.

Alunite occurs as a large deposit at Bulladelah, about 35 miles from Port Stephens, the yield averaging about 80 per cent. of alum. During 1909, 3,500 tons of alunite, valued at £8,791, were shipped to England, where it was found that the stone can be treated more cheaply than is possible locally. The value of alunite, the product of this State, exported to the end of 1909, is set down at £99,208.

MARBLE, BUILDING STONES, FIRE-CLAYS, AND SLATES.

New South Wales possesses an abundant supply of various kinds of stone and other materials for building purposes. Marble limestone is found in great masses near Wallerawang, Bathurst, Molong, Marulan, Tamworth, and Kempsey, localities which are all within convenient distance of the great arteries of communication. Marble quarries have been opened in the Cow Flat, Marulan, Wallerawang, Orange, and Tamworth districts; but as the total value of the marble raised to the end of 1909, amounted only to £17,980 at point of production, it is evident that the natural advantages have not been materially developed.

The cost of quarrying and the carriage to Sydney are heavy; but the local marble compares so favourably, both in form and colouring, with the imported article, that its more extensive use may reasonably be expected. During 1909 marble valued at £1,700 was obtained, principally from quarries at Caloola, in the Rockley division, and from Borenore, in the Orange division.

Granite is found at Bathurst, Moruya, Trial Bay, and on Montagu Island, as well as at many other places throughout the State. Most of the granite hitherto used in Sydney has been obtained from Moruya, a port about 180 miles south of Sydney.

Limestone flux was supplied formerly to the Broken Hill silver-mines from quarries at Tarrawingee, about 30 miles distant; but when the Broken Hill Proprietary Company transferred the whole of their smelting operations to Port Pirie, in April, 1898, the demand for flux ceased, and the quarries thereupon were closed. From 1900 to 1904 considerable activity was displayed in the mining of limestone at Portland, in the Mudgee district, in connection with the Lime and Cement Works, also in the Rockley division, and at Marulan, Broken Hill, Bulladelah, Taree, Barraba, Parkes, and Peak Hill, where lime has been produced and a quantity of limestone obtained for flux.

The output during the last four years has been well maintained, the quantities raised being used for the manufacture of Portland cement and lime, or utilised by the smelting companies as flux. The following table shows the quantity raised for flux since 1902, together with the value of cement manufactured:—

Year.	Limestone raised for flux.		Value of Cement manufactured.
	Quantity.	Value at Smelting Works.	
	tons.	£	£
1902	17,352	10,615	46,500
1903	23,824	14,221	55,740
1904	24,975	14,434	54,750
1905	14,941	9,519	88,100
1906	12,788	7,463	128,487
1907	41,667	16,162	144,548
1908	53,668	14,779	184,400
1909	45,078	13,851	202,200

The Hawkesbury formation, on which the city of Sydney is built, provides an inexhaustible supply of sandstone, of the highest quality for building purposes. This material is admirably adapted for architectural effect, being of a pleasing colour, fine grain, and very easily worked. The beauty of Sydney street architecture is due, in a considerable degree, to the free use of this excellent stone.

Basalt, or "blue metal," which is much in demand for road metal and for the ballasting of the railway lines, is obtained at Kiama, Prospect, and Pennant Hills. This stone has not yet been used to any extent for building purposes.

Syenite, commonly called trachyte, is found at Bowral; as a building material it is equal to granite in solidity, and takes a beautiful polish. The success which has attended its use for building purposes, together

with the short distance from the metropolis at which it is to be found, will no doubt cause it to be regarded favourably in the future for large structures.

Kaolin has been found in many granitic districts, such as Bathurst, Gulgong, Uralla, and Tichbourne, near Parkes. The clay is of excellent quality, and superior to the best obtained in England and France.

The coal measures contain numerous beds of fire-clays; and in every part of the State excellent clays, well adapted for brick-making purposes, are extensively worked. Slates are found in several districts, but are quarried principally at Gundagai, Bathurst, and Goulburn. The State has no need to import building material of any description, as it possesses a supply amply sufficient to provide for all requirements.

Graphite occurs in the Wälcha division, and at Undercliffe, in the New England district, where there are several lodes, one of which is 6 feet wide, but of inferior quality. The only mining for plumbago is at the Undercliffe mine, where recently a company has entered upon operations with the intention of manufacturing lubricants, crucibles, paints, &c.

PROSPECTING VOTE.

The Legislature for some time past has provided a sum annually to encourage prospecting for gold, and in 1889 the conditions of the vote were so amended as to embrace all minerals. The amount set apart each year was originally £20,000. For the year 1892, however, it was fixed at £40,000; and during each of the subsequent years, until 1902, the sum of £25,000 was available. For the year 1902-3 the amount voted was reduced to £20,000, and this has been further decreased to £15,000 for each of the following years. During recent years, with the exception of the Cobar district, where operations are most active, prospecting has not been followed so vigorously as previously. This is explained by the demand for competent miners at the established mines, and by the steady employment offering in connection with the agricultural and pastoral industries.

The discovery of a large payable field has, so far, not been made by means of the Prospecting Vote; but some rich mines have been opened up with the aid granted, notably the Mount Boppy mine, which is now the premier gold-mine of the State, having produced gold to the value of £854,274 during the last nine years. The Queen Bee copper mine owes its present successful position to the aid granted, and the Crowl Creek mine at Shuttleton was opened up indirectly as the results of assistance from the same source. In addition to the employment of labour, the proving of a lode or reef invariably leads to the development of large areas of adjoining land under the Mining Act, from which increased revenue is derived by the State. From the year 1888 to the end of 1909, the amount expended in prospecting work was £404,395.

Miners desiring a grant from the vote have to satisfy the Prospecting Board that the locality to be prospected is likely to yield the mineral sought, and that the mode of operation is suitable for its discovery. Aid is given in deserving cases up to 50 per cent. of the value of the developmental work done, inclusive of the cost of the necessary implements and materials. The granting of assistance for sinking from the surface is not favoured, and applicants are generally required to prove their *bona-*

fides by carrying out a certain amount of work unassisted. Miners who have been assisted from the vote are not entitled to claim any reward that may be offered for the discovery of a new gold or mineral field.

A clause in the Prospecting Regulations provides that the amount advanced from the vote shall be refunded in the event of the discovery of payable mineral by means of the aid granted.

AREA UNDER MINING OCCUPATION.

At the close of the year 1909 the area of Crown lands occupied for mining purposes amounted to 282,615 acres, and there were 54,718 acres of private and reserved lands held under mining regulations. Under the Church and School Lands Mining Act of 1889 16 acres were held, making a total of 337,349 acres under mining occupation. The following table shows how the total area is made up:—

Nature of Holding.	Acres.	Acres.
Crown lands under lease for gold	10,262	
" " other minerals	182,381	
" under special lease (dredge) for gold ...	5,816	
" " " tin	2,039	
" for water conservation	1,747	
" under lease for gold and other minerals	1,851	
Total area Crown lands under mining lease ...	.....	204,096
Auriferous Crown lands under application to lease	1,994	
Crown lands under application to lease for other		
minerals	11,501	
Crown lands under application for dredging ...	2,328	
" as sites for races, dams, &c.	502	
Total Crown lands under application to lease	.....	16,325
Other Crown lands held under Mining Regulations	.....	62,194
Total Crown lands occupied for mining purposes ...	.....	282,615
Private lands under gold lease	2,886	
" " mineral lease	2,635	
" " gold and mineral lease	1,246	
" leased for water conservation, &c. ...	237	
Total area Private lands under mining lease ...	.....	7,004
Private lands under application to lease	3,398	
" " " for races, &c.	18	
Reserved lands under permits for gold	4	
" " " " and other		
minerals	14,499	
Private lands under agreement with owners ...	17,115	
" " authority to enter	12,680	
Total Private lands under permits ... ..	.....	47,714
" " " leases and permits... ..	.....	54,718
Area under Church and School Lands Mining Act		
of 1889 ... ..	.....	16
Total area under mining occupation at 31st	.....	387,349
December, 1909 ... ..	.....	387,349

The number of miners' rights issued during 1909 was 20,124, and the revenue derived therefrom amounted to £3,294. During the same period 1,694 business licenses were granted, the fees received being £975.

MINING ACT, 1906.

The Mining Act, 1906, consolidated and amended the Acts previously existing—thirteen in number—relating to mining on Crown and private lands. The Mining Board Regulations, and the various sets of regulations made under the repealed Acts, have been superseded by a consolidated set of regulations under the new Act. They practically constitute the law relating to holdings under miners' rights, besides prescribing conditions relating to mining leases; in each case the existing provisions are simplified and liberalised. The principal provisions of the Act may be summarised briefly as follow:—

Miners' Rights and Business Licenses.

A miner's right or a business license is issued for any period from six months up to twenty years, the fees payable being determined according to the currency of the right or license. In the case of a miner's right, the fee is 5s. per annum, and for a business license £1 per annum.

The miner's right entitles the holder to occupy Crown land for the purpose of mining for gold and minerals, for constructing works, conserving water, or obtaining timber in connection with mining, also for residence.

A business license entitles the holder to occupy one quarter of an acre of Crown land in a town or one acre outside town boundaries, for the purpose of carrying on business and for residence respectively. Under a provision of the Crown Lands (Improvement Purchase) Act, 1909, holders of business areas exceeding the limit allowed by the Mining Act of 1906, within the suburban boundaries of any town, may obtain by purchase a freehold title to such areas, provided that registration was effected prior to July, 1907, and that the areas do not exceed one acre.

The regulations prescribe the areas which may be held as prospecting areas or claims for dam or machinery sites, and the contingent labour conditions; and provision is made for registration and survey in certain instances, transfer, creation of shares, and all other matters affecting holdings under miner's right or business license.

Special provision is made by section 17 of the Act for the issue to any holder of a miner's right of an authority to prospect upon extended areas of Crown land, whether exempted from ordinary occupation under miner's right or not. Such authority is subject to payment of a small rent, and upon finding gold or minerals the holder may be required to take out a lease.

Leases of Crown Lands.

The term "Crown Lands" has a much wider interpretation under the existing Act than was the case under the repealed Acts, and now embraces all lands vested in His Majesty or in any trustee or constructing authority for public purposes, all lands held under lease from the Crown (except conditional lease or conditional purchase lease), and any road, street, or highway.

Leases of Crown lands are divided into two classes—(a) Mining leases, and (b) leases for "mining purposes."

Mining leases are for either gold or minerals, the annual rent in each case being 5s. per acre, except in the case of leases for coal or shale, which are subject to a rental of 1s. per acre, and a royalty of 6d. per ton on all shale or large coal, and 3d. per ton on all small coal raised. The amount paid as rent may be deducted from the royalty.

Gold-mining leases are limited to 25 acres, mineral leases (other than coal, shale, or opal) to 80 acres, coal or shale leases to 640 acres, and opal leases to 10 acres; and the maximum term for which a lease may be granted is twenty years, with the right of renewal for a similar term.

Under special conditions, where there are exceptional difficulties in mining the land, leases for larger areas may be granted, subject to report by the Prospecting Board. Such special leases are subject to payment of a rent or royalty to be fixed by the Minister in each case.

The definition of "mining purposes" covers all operations in connection with mining, such as erecting buildings or machinery, conserving water, treatment of tailings, or any other purpose in connection with mining for gold or minerals. These "mining purpose" leases are limited to the surface and to a specified depth, and do not authorise the holder to mine for any minerals contained in the land.

Mining on Private Lands.

The holder of a miner's right may obtain from the Warden an authority to enter upon any private land to prospect for gold, or upon land granted with the reservation of minerals to the Crown, to prospect for minerals other than coal or shale. The fee for such authority is 5s., and the holder must pay to the owner of the land such rent and compensation for surface damage as the Warden, after inquiry, may assess. Having obtained his authority to enter, the holder may search for the specified mineral on the area granted (not more than 25 acres for gold nor 80 acres for minerals) and may apply for a lease of the whole or any part of the land. Such lease may be for any term not exceeding twenty years, with the right of renewal for a like term. The rent to the owner of the land is £1 per acre, payable in respect only of such part of the surface as is granted. A royalty of one per cent. on the gross value of the gold and minerals won is payable to the Crown. The owner of private land, or the occupier with the owner's consent, may obtain an authority to enter or lease of any area, not exceeding that prescribed for an ordinary lease, to mine for gold or for any minerals, without any payment of rent or compensation, and such owner or occupier may also obtain a lease of any area not exceeding 640 acres to mine for coal or shale. Such owners' leases are subject to the payment to the Crown of 1 per cent. royalty on gold or minerals, and 6d. per ton of large coal or shale, and 3d. per ton of small coal.

The owner of any private land may enter into an agreement with the holder of a miner's right, giving him permission to mine for gold or minerals (if reserved to the Crown) on any area not exceeding that prescribed for an ordinary lease. Such agreement must be submitted for the Minister's concurrence, and is subject to the payment of 1 per cent. royalty to the Crown on all gold or minerals won. All agreements must be registered.

All lessees or holders of agreements may deduct rent paid from the amount of royalty payable.

Under special conditions, where there are exceptional difficulties in mining the land, leases for extended areas may be granted, subject to report by the Prospecting Board.

The Closer Settlement (Amendment) Act, 1909, provides that all grants of land under the Closer Settlement Act shall contain a reservation of all minerals in such land. The effect of this provision is to make such lands "private lands" within the meaning of the Mining Act of 1906.

Dredging.

Leases of Crown or of private land may be granted for the purpose of mining for gold or any mineral by dredging, sluicing, or other method. Such leases may cover any area not exceeding 100 acres, and continue for any term not exceeding twenty years, with the right of renewal for a similar term. The lessee is required to employ a certain number of men, and to expend a certain sum in the purchase and erection of machinery and appliances. Then rent of Crown land is 2s. 6d. per acre, and of private land such amount as may be assessed by the Warden. Compensation for surface drainage to private land may also be assessed by the Warden. Rent paid may be deducted from the royalty payable.

Leases generally.

The labour conditions fixed by Regulation are as follow :—

For gold: 1 man to 5 acres for the first year, and thereafter 1 man to 2 acres.

For minerals other than gold, coal, or shale: 1 man to 20 acres for the first year, and thereafter 1 man to 10 acres.

For coal or shale: 2 men to 320 acres.

The Act empowers the Warden to grant suspension of the labour conditions on any lease if the mine is unworkable, or if the lessee is physically or financially unable, for a limited period, to work the mine.

The Minister may grant suspension, on the recommendation of the Warden, if the price of the miner's product be low, or for any other adverse conditions; suspension may be granted for any period not exceeding six months; if a lessee has employed labour in excess of that required by the terms of his lease, he may obtain exemption from labour conditions to the extent of one month in respect of each six months during which excess labour has been employed.

THE MANUFACTURING INDUSTRY.

A BROAD general view of the rapidly growing importance of the manufacturing industries of New South Wales may be gathered from the following statement, which shows for each of the last seven years the value of plant and machinery, the wages paid to employees, and the corresponding annual output :—

Year.	Value of Plant and Machinery.	Wages paid.	Annual Out-put.
	£	£	£
1903	7,121,806	4,839,557	24,721,681
1904	7,648,903	5,012,758	25,283,320
1905	8,031,948	5,191,350	27,850,158
1906	8,407,337	5,591,888	32,424,251
1907	9,155,772	6,650,715	37,571,116
1908	9,718,842	7,218,556	37,338,101
1909	10,330,724	7,665,125	40,241,578

From these figures it appears that within the short period of seven years additional plant to the value of nearly 3½ million pounds has been introduced, and that the wages and output for 1909 were 58 per cent. greater than in 1903.

Prior to 1901 there was no law in force requiring proprietors of factories and works to supply annual returns of their operations. The Census Act of 1901, however, conferred extensive powers on the Statistician with respect to these establishments, and, in consequence, the industrial statistics since that year have been on a very comprehensive basis. At the present time particulars of the operations of factories and works are seldom unavailable, and when they are not given, an approximate return is furnished by the collector, who usually possesses a special knowledge of the district.

Establishments where machinery is not used are excluded from consideration unless at least four persons are employed. Prior to 1896 the minimum in such cases was five hands; but a change was made to secure interstate uniformity, consequently all information regarding manufactories throughout Australia is now compiled on a common basis. All works and factories are included in which machinery is used, as it is obvious that an establishment where only two or three hands are employed to look after the machinery may turn out a greater quantity of work than another in which the services of a much larger number of hands, unassisted by mechanical power, are utilised.

The following table shows the progress since 1896, both in regard to hands employed and machinery used :—

Year.	Number of Establishments.	Hands employed.			Power of Engines.		Value of Machinery and Plant.
		Males.	Females.	Total.	Full Capacity.	Average Used.	
1896	2,928	42,908	6,932	49,840	44,839	33,253	5,035,905
1897	2,826	44,333	7,106	51,439	46,347	34,101	5,294,228
1898	2,889	44,673	7,845	52,518	44,241	32,968	5,435,606
1899	2,912	47,063	8,583	55,646	45,938	33,080	5,649,384
1900	3,077	50,516	10,263	60,779	49,599	35,828	5,707,640
1901	3,367	54,556	11,674	66,230	63,405	44,595	5,860,725
1902	3,396	54,326	11,943	66,269	75,907	52,813	6,807,843
1903	3,476	52,453	13,180	65,633	81,475	59,353	7,121,806
1904	3,632	53,457	14,579	68,036	86,878	62,407	7,648,903
1905	3,700	56,111	16,064	72,175	90,896	70,054	8,031,948
1906	3,861	59,979	17,843	77,822	97,244	74,756	8,407,337
1907	4,432	65,953	20,514	86,467	108,257	81,293	9,155,772
1908	4,453	67,616	21,482	89,098	116,571	88,109	9,718,842
1909	4,581	69,184	22,518	91,702	145,349	99,327	10,330,724

During the two years preceding 1893 the manufacturing industry declined; but after the financial crisis in that year there was a recovery, and in each succeeding year, with one exception, there has been an increase in the number of hands employed and in the power and value of machinery used.

Taking the figures for 1900 it will be seen that during the last ten years there has been an increase of 18,668 males and 12,255 females, making a total of 30,923 hands. The proportionate increase in the number of females has been much greater than in the case of males, for in several years the latter showed a decrease. From 1893 to the end of 1901 the number of males steadily increased; but during the next two years there was a temporary decrease, chiefly in the hands employed in metal works, establishments dealing with pastoral products and refrigerating works. The increase during 1907 is not really so large as appears, as during that year there were included for the first time 178 establishments employing 1,044 persons, which ought to have been included in previous years, but were overlooked by the collectors. The industries affected from this cause were all in the country districts, and related to tinsmithing, aerated waters, tailoring, dressmaking, printing, coachbuilding, and saddlery.

EMPLOYMENT OF FEMALES.

The great increase in the number of females employed is a striking feature of the table just given, and when viewed as a proportion of the total number of hands, the result is still more marked. Taking the figures for 1896, it is found that the females represented only 13.9 per cent. of the total hands, while in 1901 the proportion had increased to 17.6 per cent., and in 1909 to 24.5 per cent. In order to indicate clearly the extent to which female labour is utilised, and the direction in which it is chiefly

applied, the following table has been prepared, showing the numbers engaged in each of the principal branches of the manufacturing industry during the three years named, and the proportion to every hundred males employed :—

Manufactory or Work.	Females employed.			No. of Females to 100 Males.		
	1896.	1901.	1909.	1896.	1901.	1909.
	No.	No.	No.	No.	No.	No.
Biscuits	136	350	605	44	71	110
Boots and Shoes	849	1,118	1,606	32	39	56
Clothing (Slop)	1,290	2,636	4,686	522	434	526
Clothing (Tailoring)	1,036	1,437	2,489	167	100	126
Clothing (Shirts, &c.)	56	337	1,315	509	1,021	1,277
Confectionery	118	225	466	33	39	73
Dressmaking and Millinery	1,738	2,526	4,399	4,138	4,141	7,855
Hats and Caps	50	198	951	217	150	239
Jam and Fruit Canning	81	140	360	22	28	78
Printing and Bookbinding	394	703	1,190	9	16	22
Paper Bags and Boxes	134	140	699	343	149	152
Tobacco	170	428	631	36	71	102
Woollen and Tweed Mills	70	72	345	43	44	122
Other Industries	810	1,364	2,776	2	3	5
Total	6,932	11,674	22,518	16	21	33

In 1909 there were 15,586 more females employed in the above industries than in 1896, and the proportion of females to every hundred males employed had risen from 16 to 33. Between 1901 and 1909 the increase in the proportion was quicker relatively than in the years prior to 1901; although the greater portion of the numerical increase has occurred in those industries which essentially belong to women's sphere, there has also been a considerable increase in other industries, and there is evidently an increasing tendency on the part of the manufacturers towards the introduction of female labour for the performance of minor duties in the work of manufacture, and in connection with the sorting, packing, and labelling of finished articles. Amongst the industries enumerated in the previous table, in nearly every instance the number of females employed to 100 males is increasing, noticeably in the biscuit and tobacco factories.

In the clothing industries, which include the manufacture of slop and waterproof clothing, tailoring, shirt and hat making, and dressmaking and millinery, the number of females employed in 1896 was 4,264, and 13,964 in 1909, an increase of 9,700 hands, equal to 227 per cent. In other industries, the numbers in each year were 2,668 and 8,554 respectively, an increase during the period of 5,886, or 221 per cent.

CHILD LABOUR.

Child labour is not employed in the factories of the State to any great extent, although it is gradually increasing. The law regulating primary education provides that children must attend school until they reach their fourteenth year, with the exception of those who, prior to reaching that age, have obtained exemption certificates. The Shops and Factories Act of 1896 provides that no child shall be employed in any factory, unless by special permission of the Minister, and no such special permission shall be given to a child under the age of 13 years. For the purposes of this Act, any person under 14 years of age is considered to be a child; and the children who received permits in 1909 numbered 396, of whom 248 were boys and 148 girls.

Useful information in this connection is collected under the provisions of the Factories and Shops Act, which shows the trend of the movement regarding the employment of child labour. Taking the factories in the metropolitan district, the following are the figures for the last ten years:—

Year.	Factories under Factories and Shops Act.					
	Employees under 16.		Total Hands.		Proportion of Hands under 16.	
	Males.	Females.	Males.	Females.	Males.	Females.
1900	1,342	788	29,086	10,018	per cent. 4·61	per cent. 7·87
1901	1,545	965	31,247	11,026	4·94	8·75
1902	1,603	1,277	31,433	12,397	5·10	10·30
1903	1,560	1,352	30,539	13,464	5·11	10·04
1904	1,634	1,572	30,888	14,777	5·29	10·64
1905	1,793	1,499	33,437	15,747	5·36	9·52
1906	2,017	1,891	36,200	17,591	5·57	10·74
1907	2,233	2,082	39,157	19,063	5·70	10·92
1908	2,138	2,059	41,669	20,725	5·13	9·93
1909	2,104	2,309	43,872	22,399	4·80	10·31

Thus it appears that the proportion of boys and girls remains fairly constant at 5 and 10 per cent. of the total employees of their respective sexes.

METROPOLITAN AND COUNTRY MANUFACTORIES.

The number of manufactories in the State at the end of 1909 was 4,576, and the number of hands employed 91,702, or an average of 20 per establishment. There were 153 establishments, which each employed over 100 persons, the average number of hands therein being 217. In the following table will be found a division of the manufactories in the metropolitan and country districts, according to the number of hands employed during 1909:—

Establishments employing--	Metropolitan District.		Country Districts.		New South Wales.	
	Establishments.	Hands.	Establishments.	Hands.	Establishments.	Hands.
Under 4 hands	207	459	505	1,163	712	1,622
4 hands	142	568	339	1,356	481	1,924
5 to 10 hands	679	4,832	960	6,552	1,639	11,384
11 to 20 ,,	471	7,049	260	5,128	831	12,177
21 to 50 ,,	419	13,061	138	4,119	557	17,180
51 to 100 ,,	164	11,499	39	2,665	203	14,164
101 and upwards	118	26,309	35	6,942	153	33,251
Total	2,200	63,777	2,376	27,925	4,576	91,702

The chief seat of the manufacturing industry is, of course, to be found where population is densest; consequently the factories of the metropolitan district, although not so numerous, are much more important than those of the country, and provide employment for twice the number of hands. The average number of hands per establishment in the metropolitan district was 29, and in the country about 12.

The disparity between the metropolitan and country districts has not been always so marked—in 1900 the hands numbered 38,668 and 22,111, respectively—therefore it appears that the chief development of the manufacturing industry within recent years has taken place in the metropolis.

The facilities for the establishment of large industries in and around Sydney are considerable—a commanding position as regards communication with the outside world, proximity to the coal-fields, easy communication by rail or sea with the chief seats of raw production in the State, density of population, and abundant water supply—these have tended to concentrate all the important industries in the metropolitan district. In the country districts the principal works are saw-mills, smelting works, sugar-mills, and flour-mills, also industries of a domestic character intended to meet a day-to-day demand, and for the treatment of perishable goods.

The following table shows the number of hands employed in the metropolitan district as compared with the remainder of the State for the last ten years :—

Year.	Hands employed.		Year.	Hands employed.	
	Metropolitan District.	Country Districts.		Metropolitan District.	Country Districts.
1900	38,668	22,111	1905	48,842	23,333
1901	42,415	23,815	1906	52,605	25,217
1902	43,577	22,692	1907	57,247	29,220
1903	43,752	21,881	1908	60,974	28,124
1904	45,409	22,627	1909	63,777	27,925

CLASSIFICATION OF MANUFACTORIES.

The majority of the manufacturing industries may be classified as domestic industries—that is to say, industries called into existence by the natural resources of the State, or connected with the treatment of perishable products for immediate use; but there are many industries the products from which come into competition with imported goods. The number of hands engaged in these classes were—in domestic industries dependent on natural resources, 43,341; industries connected with the treatment of perishable products, 4,021; and in other industries, 44,340.

The industries are divided into nineteen classes, and the number of hands employed in each class at intervals since 1896, was as follows :—

Class of Industry.	No. of Hands Employed.				
	1896.	1901.	1906.	1908.	1909.
Raw Materials, Pastoral Products	3,748	2,981	3,209	3,497	3,800
Oils and Fats, Animal, Vegetable, &c.	410	698	681	662	694
Processes in Stone, Clay, Glass, &c.	2,441	3,007	3,877	3,888	4,135
Processes in Wood	3,934	5,108	5,205	6,300	6,690
Metal Works, Machinery, &c.	8,705	13,926	15,339	18,627	18,755
Food and Drink, &c.	10,179	11,372	11,607	12,095	12,331
Clothing and Textile Fabrics, &c.	9,750	14,497	19,650	22,384	23,161
Books, Paper, Printing, and Engraving ..	4,940	5,573	6,961	7,922	8,045
Musical Instruments	18	226	338	389	370
Arms and Explosives ... ..	...	11	17	25	31
Vehicles and Saddlery	1,592	2,541	2,667	3,532	3,683
Ship Building, &c.	1,132	1,541	1,595	1,924	1,796
Furniture, Bedding, and Upholstery	1,183	2,140	2,317	2,703	2,846
Drugs, Chemicals, and By-products	331	450	1,012	1,129	1,202
Surgical and other Scientific Instruments	35	69	86	85	84
Jewellery, Timepieces, and Plated Ware	102	165	457	579	608
Heat, Light, and Power	859	1,417	1,883	2,236	2,332
Leatherware, N.E.I.	33	117	240	316	322
Minor Wares, N.E.I.	448	391	681	805	817
Total	49,840	66,230	77,822	89,098	91,702

Coincident with the decrease in live stock, there was a decline in the industries dealing with pastoral products, which are, however, again showing signs of a revival. Establishments working in connection with stone, clay, glass, &c., show an increased employment, due largely to the expansion of the brickyards; and the increase in woodworkers is due mainly to the increased business of saw-mills and joinery works, indicating greater activity in the building trades. Metal works show a great advance since 1896, and almost every branch of the industry discloses an improvement, the most noticeable being smelting, railway workshops, and carriage building, ironworking and engineering. The clothing industry shows a general increase in almost all its branches. In furniture-making there has been a large increase in the number of hands; but the industry is, to a large extent, in the possession of the Chinese. The extension of electric power has led to a considerable increase of employment, and in the minor industries there is also evidence of greater activity.

The following table has been prepared to show concisely the principal details respecting each class of industry for the year 1909:—

Class of Industry.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
Treating Raw Materials, &c.	283	3,749	51	3,800	9'20	270,969	3,338	282,339
Oils and Fats, &c.	35	540	154	694	11'78	54,305	361	165,071
Processes in Stone, Clay, Glass, &c.	274	4,061	74	4,135	10'96	399,533	5,651	534,216
Working in Wood	574	6,653	37	6,690	10'84	558,168	9,344	497,215
Metal Works, Machinery, &c.	449	18,682	73	18,755	11'63	2,086,717	14,929	2,309,064
Connected with Food and Drink, &c.	761	9,500	2,831	12,331	11'09	1,014,262	15,204	2,714,561
Clothing and Textile Fabrics, &c.	899	6,992	16,169	23,161	11'79	1,239,156	1,832	378,979
Books, Paper, Printing, &c.	381	6,136	1,909	8,045	11'87	732,359	1,593	833,097
Musical Instruments	12	335	35	370	12'00	37,897	57	9,250
Arms and Explosives	3	25	6	31	11'42	2,366	6	634
Vehicles, Saddlery, and Harness, &c.	344	3,610	73	3,683	11'79	285,935	427	70,455
Ship and Boat Building, &c.	39	1,796	...	1,796	11'91	222,076	1,887	355,088
Furniture, Bedding, and Upholstery	160	2,589	257	2,846	11'75	250,319	423	37,382
Drugs, Chemicals, and By-products	69	744	458	1,202	11'73	91,922	621	165,329
Surgical and other Scientific Instruments	11	65	19	84	12'00	6,977	6	3,931
Jewellery, Plated Ware, &c.	42	551	57	608	11'96	58,743	34	16,513
Heat, Light, and Power	175	2,285	47	2,332	11'30	283,420	43,137	1,895,991
Leatherware, N.E.I.	16	274	48	322	11'99	21,521	99	6,604
Minor Wares, N.E.I.	54	597	220	817	11'83	53,433	378	48,955
Total	4,581	69,184	22,518	91,702	11'46	7,665,125	99,327	10,320,724

The hands employed in the manufactories numbered 91,702, but only 76,604 were actually engaged in the different processes of manufacture, or in the sorting and packing of finished articles. The number of employees and their occupations were as follows :—

Class of Industry.	Working Proprietors, Managers, and Overseers.	Clerks, &c.	Engine-drivers, &c.	Workers in Factory, Mill, &c.	Carters, Messengers, &c.	Persons regularly employed at their own homes.	Total.
Treating Raw Materials, &c. ...	396	88	182	2,986	148	...	3,800
Oils and Fats, &c. ...	58	67	18	521	20	10	694
Processes in Stone, Clay, Glass, &c.	357	133	147	3,380	118	...	4,135
Working in Wood ...	819	295	413	4,821	342	...	6,690
Metal Works, Machinery, &c. ...	839	581	389	16,758	188	...	18,755
Connected with Food and Drink, &c.	1,075	729	630	9,455	433	4	12,331
Clothing and Textile Fabrics, &c. ...	1,388	298	42	20,670	161	602	23,161
Books, Paper, Printing, &c. ...	750	534	42	6,524	192	3	8,045
Musical Instruments ...	20	20	2	325	3	2	372
Arms and Explosives ...	5	2	...	18	4	3	32
Vehicles, Saddlery and Harness, &c.	445	101	21	3,084	25	4	3,680
Ship and Boat-building, &c. ...	80	44	29	1,635	8	...	1,796
Furniture, Bedding, and Upholstery	228	47	11	2,527	33	...	2,846
Drugs, Chemicals, and By-products	118	103	22	917	40	...	1,202
Surgical and other Scientific Instruments ...	14	4	...	63	3	...	84
Jewellery, Timepieces, and Plated Ware ...	58	31	...	507	12	...	608
Heat, Light, and Power ...	160	95	431	1,448	198	...	2,332
Leatherware, N.E.I. ...	28	15	2	273	3	1	322
Minor Wares, N.E.I. ...	74	29	9	692	12	1	817
Total ...	6,912	3,218	2,390	76,604	1,948	630	91,702

As stated above, the metropolitan district is the centre of the chief manufacturing industries, particularly those connected with clothing, printing, wool-scouring, and fellmongering, ship and boat building and repairing, the manufacture of furniture, drugs, and musical instruments, and the production of light, heat, and power. The following table shows the particulars of each class of industry in the metropolitan district during the year 1909 :—

Class of Industry.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
Treating Raw Materials, &c. ...	102	2,057	46	2,103	11'62	183,280	1,839	163,758
Oils and Fats, &c. ...	17	350	121	471	11'68	37,470	238	105,441
Processes in Stone, Clay, Glass, &c.	85	2,267	46	2,313	11'31	250,849	2,345	249,396
Working in Wood ...	144	2,700	23	2,723	11'30	249,863	2,474	161,969
Metal Works, Machinery, &c. ...	285	11,145	63	11,208	11'90	1,167,816	3,740	254,442
Connected with Food and Drink, &c.	187	4,805	2,410	7,215	11'75	591,867	4,854	1,417,422
Clothing and Textile Fabrics, &c.	625	5,884	14,505	20,389	11'79	1,061,413	1,634	343,586
Books, Paper, Printing, &c. ...	195	4,752	1,818	6,570	11'85	612,948	1,334	667,266
Musical Instruments ...	12	335	35	370	12'00	37,897	57	9,250
Arms and Explosives ...	3	25	6	31	11'42	2,363	6	684
Vehicles, Saddlery, and Harness, &c. ...	114	1,667	64	1,731	11'76	141,163	185	29,275
Ship and Boat Building, &c. ...	28	1,689	...	1,680	11'95	210,214	1,826	350,203
Furniture, Bedding, and Upholstery ...	141	2,441	253	2,694	11'74	270,537	396	35,257
Drugs, Chemicals, and By-products	62	652	458	1,110	11'87	81,135	490	92,909
Surgical and other Scientific Instruments ...	10	64	19	83	12'00	6,977	5	3,831
Jewellery, Plated Ware, &c. ...	38	527	56	583	11'92	51,568	34	15,815
Heat, Light, and Power ...	67	1,332	46	1,378	11'87	168,227	36,059	1,383,754
Leatherware, N.E.I. ...	16	274	48	322	11'99	21,521	99	6,604
Minor Wares, N.E.I. ...	51	583	220	803	11'85	52,618	367	47,879
Total ...	2,205	43,540	20,237	63,777	11'89	5,198,926	57,982	5,893,281

INDUSTRIES TREATING RAW MATERIALS, THE PRODUCT OF PASTORAL AND AGRICULTURAL PURSUITS.

The decrease in the number of stock depastured, following on a succession of adverse seasons, necessarily reduces the production of raw material, and consequently fewer hands are required in the treatment thereof.

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
I.—TREATING RAW MATERIAL, &c.								
					Months	£	No.	£
Boiling-down and Tallow Refining	36	441	22	463	10-35	39,462	476	54,565
Tanneries	79	981	2	987	11-91	84,021	942	76,781
Wool-scouring and Fellmongering	68	1,589	23	1,611	8-78	111,295	1,319	112,039
Chaff-cutting, &c.	96	579	5	584	5-86	21,969	601	38,081
Sausage skins	4	209	...	209	12-00	14,231	...	873
Total	283	3,749	51	3,800	9-20	270,969	3,338	282,339

The figures do not include boiling-down and wool-washing works on stations, which are in operation only for a few weeks in each year. The number of hands employed varies considerably during the year, and in certain seasons many more persons are at work, especially at wool-scouring.

Tallow refining, is not the important industry it was fifteen years ago, when there was a large surplus of live stock to be disposed of each year, with the price of tallow high enough to encourage the disposal of stock in this manner. With the return of good seasons, together with an increase in prices, there has been an increase in the production of tallow since 1903.

Exclusive of operations on stations and large farms, carcases, fat, refuse, bones, etc., to the value of £565,117 were treated during 1909 in boiling-down and manure works, and produced 446,406 cwt. of raw and refined tallow, valued at £589,107; 351,250 cwt. of blood and bone manures, valued at £92,474; whilst the return from hides, oils, bones, and other by-products amounted to £35,140.

In wool-scouring works and fellmongeries 39,664,366 lb. of greasy wool and 5,592,541 skins were treated, producing 18,614,522 lb. and 17,737,992 lb., respectively, of scoured wool, valued in the aggregate at £2,242,262. The pelts obtained were valued at £110,369.

In tanneries, 459,968 hides and 2,660 cwt. of hide pieces produced 13,125,272 lb. of leather, worth £645,380. In addition, 4,793,441 pelts were operated on, 1,907,909 valued at £74,115, being pickled. The others were converted into 3,181,617 lb. of basils, valued at £135,210. Wattle bark to the extent of 9,443 tons was used for tanning purposes.

OILS AND FATS—ANIMAL, VEGETABLE, &c.

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
II.—OILS, FATS, &c.								
					Months	£	No.	£
Oil and Grease	9	117	6	123	10-77	12,223	197	37,634
Soap and Candles	26	423	148	571	11-99	42,070	164	127,437
Total	35	540	154	694	11-78	54,305	361	165,071

Tallow being one of the staple products, the manufacture of soap and candles, as might be expected, is firmly established. The quantity of toilet and fancy soap made is small, and in quality it is scarcely equal to that

imported, but common soap of local make is both cheaper and better than the imported article, and practically commands the market.

With the extension of gas-lighting, which is now almost universal throughout the metropolitan district, the consumption of candles had gradually decreased, with a corresponding decrease in the production, which had been almost wholly for local use. In recent years there has been an improvement, and an export trade with the other States has been established. The following table gives particulars of the soap and candle making industry during the last ten years :—

Year.	Soap and Candle Factories.	Hands Employed.	Quantity manufactured (as returned by manufacturers).		Horse-power of Plant (full capacity).
			Soap.	Candles.	
	No.	No.	cwt.	lb.	H.-p.
1900	43	351	147,515	2,073,427	818
1901	44	533	233,700	3,897,468	829
1902	40	425	175,822	2,965,766	533
1903	47	520	199,807	3,231,842	744
1904	46	508	208,677	3,984,035	556
1905	40	574	212,658	4,226,082	520
1906	41	602	221,834	5,076,048	522
1907	34	547	234,022	5,656,354	489
1908	29	553	232,441	5,566,776	454
1909	26	571	229,846	6,922,488	427

The candles manufactured include those made from paraffin also, but as they are the product of a single firm the actual quantity may not be disclosed. During 1909, in addition to the commodities shown in the above table, 351,980 lb. of soap extract and powders were made. Tallow, 114,014 cwt.; alkali, 5,873,326 lb.; and other materials valued at £139,177 were used in the manufacture.

PROCESSES IN STONE, CLAY, GLASS, & C.

As the majority of these industries are closely associated with the building trade, the employment afforded reflects, to a great extent, the condition of that trade. The number of hands employed shows a substantial increase since 1900. The details of each industry for 1909 were as follow :—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
III.—STONE, CLAY, GLASS, & C.								
Bricks and Tiles	201	2,076	32	2,108	10.72	198,704	2,803	253,746
Glass (Including Bottles)... ..	7	541	2	543	11.17	46,836	23	16,844
Glass (Ornamental)... ..	14	197	2	199	12.00	19,592	31	6,117
Lime, Plaster, Cement, and Asphalt	23	647	1	648	11.34	66,975	2,455	197,489
Marble, Slate, &c.	11	183	1	184	11.69	24,640	122	13,350
Modelling, &c.	2	13	...	13	12.00	1,465	...	432
Pottery and Earthenware... ..	16	404	36	440	10.19	41,321	218	46,238
Total	274	4,061	74	4,135	10.96	399,533	5,651	534,216

In 1891 there were 2,018 hands employed in brickworks, and the output of bricks was 184,682,000. There was then a decline in building operations, and during the two years after the crisis of 1893 the output fell below 100,000,000. There has since been an improvement, and the output has

steadily increased until it reached 222,558,000 in 1909. The following figures give the details of the industry during the last ten years :—

Year.	Brickworks.	Hands Employed.	Bricks made (as returned by makers).	Horse-power of Plant (full capacity).
	No.	No.	No.	H.-p.
1900	157	1,535	128,430,000	1,639
1901	182	1,823	159,254,000	1,543
1902	182	1,973	180,727,000	1,986
1903	163	1,921	202,681,000	2,243
1904	165	1,893	154,480,000	2,701
1905	172	2,006	162,643,000	2,974
1906	187	2,147	172,010,000	3,172
1907	186	1,844	195,594,000	3,535
1908	189	1,919	214,606,000	3,853
1909	201	2,108	222,558,000	4,547

The manufacture of tiles, pottery, and earthenware is usually carried on in conjunction with brickmaking, although there are establishments devoted solely to this branch of the industry. The value of the tiles, pottery, and earthenware manufactured in 1909 was £105,132.

WORKING IN WOOD.

These industries are largely connected with the preparation and supply of building materials, and, as in the class immediately preceding, afford a reliable index to the state of the building trade.

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
IV.—WORKING IN WOOD.								
Boxes and Cases	25	517	3	520	11·82	42,332	479	24,842
Cooperage	16	265	1	266	12·00	22,517	127	19,002
Joinery...	96	1,419	7	1,426	11·82	129,006	1,005	73,944
Saw-mills	407	4,284	23	4,307	10·30	551,606	7,587	370,671
Wood Turning, &c...	30	168	3	171	11·57	12,707	136	8,756
Total	574	6,653	37	6,690	10·84	558,168	9,344	497,215

Of the 6,690 hands employed in these industries, 2,723 were engaged in the metropolitan district, and 3,967 in the country, the employment in the latter district being almost wholly in connection with saw-mills, which provided work for 3,528 hands. The total number of hands engaged in saw-mills numbered 4,307, which shows an increase compared with the figures for recent years, but is below the total in 1892. The details of the industry during the last ten years were as follow :—

Year.	Saw-mills.	Hands Employed.	Plant and Machinery.		Year.	Saw-mills.	Hands Employed.	Plant and Machinery.	
			Power (full capacity).	Value.				Power (full capacity).	Value.
	No.	No.	H.-p.	£		No.	No.	H.-p.	£
1900	269	3,294	5,499	242,900	1905	339	3,886	6,848	286,011
1901	345	4,088	6,547	273,883	1906	338	3,642	6,587	260,810
1902	331	3,930	6,536	273,402	1907	377	3,983	8,713	332,239
1903	333	3,936	6,857	289,258	1908	385	4,127	9,367	367,005
1904	324	3,655	6,379	285,935	1909	407	4,307	10,947	370,671

During 1909 the output of sawn timber from locally grown logs amounted to 134,070,000 superficial feet, of which 92,085,000 superficial feet, or more than two-thirds, represented hard-woods. The number of imported logs operated on was comparatively small, and produced only 6,094,000 superficial feet of sawn timber, of which 5,733,000 feet represented soft-woods.

The growth of the employment in box factories is a testimony to the great advances made by the export trade in butter and rabbits, the former being despatched in boxes and the latter in crates. As showing the increased employment, it may be mentioned that in 1900 there were only 149 hands employed in these establishments, as compared with 520 in 1909.

METAL WORKS, MACHINERY, &C.

The industries included in this class are the most important to the industrial workers in the State, regarded from the aggregate wage aspect, although the clothing trade employs a greater number of persons.

The following table shows the employment afforded, and other particulars, for each branch of the industry during 1909 :—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery and Plant.
		Males.	Females.	Total.				
V.—METAL WORKS, MACHINERY, &C.					Months	£	No.	£
Agricultural Implements ...	21	478	3	481	11-90	38,813	161	18,063
Art Metal Works ...	5	26	...	36	10-25	3,418	7	1,725
Brass and Copper ...	15	241	...	241	11-85	18,276	64	14,387
Cutlery ...	6	31	...	31	12-00	3,170	22	2,005
Engineering ...	150	4,069	17	4,086	11-88	403,114	1,793	329,532
Galvanised Iron ...	31	601	6	607	11-61	50,257	147	31,735
Ironworks and Foundries ...	59	2,242	3	2,245	11-58	202,521	2,245	154,188
Nails ...	4	91	...	91	12-00	8,372	112	15,513
Railway Carriages ...	4	1,023	3	1,026	12-00	114,417	300	50,408
Railway and Tramway Workshops	22	4,891	12	4,903	12-00	603,379	1,619	423,526
Smelting ...	38	3,172	3	3,175	10-50	477,352	7,807	1,156,379
Stoves and Ovens ...	14	434	5	439	11-98	39,699	98	22,026
Tinsmithing ...	57	645	12	657	11-75	45,445	127	25,734
Wireworking ...	10	446	3	449	11-76	41,623	174	37,161
Other Metal Works (including Lead Mills)	13	282	6	288	11-81	20,861	253	26,742
Total ...	449	18,682	73	18,755	11-63	2,086,717	14,929	2,309,064

In 1900 there were only 12,932 hands engaged in works of this class, so that there has been an increase of 5,823, or 45 per cent. since that year. The chief increase is in works connected with the manufacture and repairs of railway engines and carriages, which show 2,683 more hands; but this is expected, in view of the large increase in rolling-stock, consequent upon the development of the railways and the extension of the metropolitan tramway system. Engineering works show an increase of 889 hands since 1900, the increase during the last two years being due partly to the local manufacture of locomotives; in ironworks 921 more persons are employed.

In considering the figures in the above table it should be remembered that the work carried out at the railway and tramway workshops is of such a character that the particulars shown under this heading and for engineering should be taken together.

In smelting works there are now 114 more hands employed than there were in 1900. The bulk of the work done is in connection with the treatment of silver and lead ores; but there are other establishments dealing with gold, copper, tin, and other ores, which are brought from all parts of Australia, also from New Caledonia. Quartz batteries are excluded from these figures, but establishments using a cyanide plant are included. Within recent years,

zinc-extracting plants on an extensive scale have been established in the State, and at Broken Hill and elsewhere great attention is being directed to this matter. Further details in connection therewith are given in the chapter dealing with "Mining Industry."

Under the Manufactures Encouragement Act, passed by the Federal Parliament in 1908, the payment is authorised, under certain conditions, of bounties on pig-iron, puddled-iron, and steel, galvanized-iron, and wire-netting of Australian manufacture. The bounty paid during the year ended 30th June, 1910, on iron and steel produced at Lithgow, amounted to £26,543, and on wire-netting made in Sydney, £6,036.

INDUSTRIES CONNECTED WITH FOOD AND DRINK, AND NARCOTICS.

From the figures given in an earlier part of this chapter it would appear that industries connected with food and drink have increased but little in importance since 1900, since the hands then employed numbered only 2,758 less than in 1909. Investigation shows, however, that there have been large individual increases in several industries, but these have been counter-balanced by a decline in sugar-milling, and in meat-preserving. In 1909 there were 12,331 hands usually employed in this class, but the number fluctuates considerably during the year, as employment in establishments manufacturing aerated waters, butter, cheese, flour, sugar, and jam varies with the seasons. The following table shows the average number of hands employed in each industry during 1909:—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS VI.—FOOD AND DRINK, &c.								
					Months.	£	No.	£
Bacon-curing	17	130	1	131	10·65	15,382	212	16,719
Butter Factories and Creameries	148	885	7	892	11·53	90,287	2,036	214,875
Butterine and Margarine .. .	4	40	2	42	12·00	4,490	52	4,170
Cheese Factories	30	77	2	79	11·77	6,119	56	7,945
Condensed Milk	3	34	9	43	12·00	3,896	32	7,120
Meat and Fish Preserving .. .	10	632	100	732	9·99	55,705	110	18,886
Biscuits	6	549	1,154	1,703	12·00	65,439	110	76,950
Confectionery	37	640	466	1,106	11·96	70,437	233	46,472
Cornflour, Oatmeal, &c. . . .	14	238	204	442	11·93	32,114	515	54,650
Flour-mills	71	857	3	860	11·09	97,147	4,328	307,321
Jam and Fruit Canning	13	460	360	820	9·65	43,463	155	20,050
Pickles, Sauces, and Vinegar ..	17	113	123	241	11·91	13,316	32	9,519
Sugar Mills	4	529	529	1,058	4·35	31,764	2,578	509,242
Sugar Refinery	1	543	12	555	12·00	63,800	485	423,478
Aerated Waters, Cordials, &c. .	236	1,180	112	1,292	11·73	90,363	531	126,089
Breweries	37	830	1	831	11·96	104,564	598	277,786
Condiments, Coffee, Spices, &c.	20	194	184	378	11·84	24,467	141	16,863
Distilleries	3	29	..	29	12·00	2,415	15	38,394
Ice and Refrigerating	67	881	4	885	10·11	91,455	2,862	396,184
Malting	3	40	..	40	10·37	5,010	73	22,222
Tobacco, Cigars, &c.	15	619	631	1,250	11·95	102,629	50	119,676
Total	761	9,500	2,831	12,331	11·09	1,014,262	15,204	2,714,561

In the preparation of food and drink, machinery is largely used, as will be seen from the figures given above. The industries first enumerated in the table deal wholly with dairy products. The production from these industries is not included in the value of production from manufacturing, as it belongs essentially to the dairying industry, with which it has been tabulated. Creameries are not considered as separate establishments when worked in conjunction with butter factories; but the hands employed are included in the figures given. There has been an enormous increase in the quantity of butter made in recent years, especially in the factory-made article, and particulars of the machinery in use and the number

of hands employed during each of the last ten years are given in the following table. The number of factories and of hands do not coincide with those shown in the preceding table, as they include factories on farms, the hands in which (272 males and 6 females in 1909) are not exclusively engaged in manufacturing dairy products, but in general farm labour, and are consequently included elsewhere :—

Year.	Factories.								Estimated Value of Plant and Machinery.	Machinery in use.						Persons employed.	
	Butter only.	Creameries only.	Cheese only.	Bacon and Ham only.	Butter and Cheese.	Butter and Bacon.	Butter, Cheese, and Bacon.	Total.		Engines.	Horse-power.	Butter Workers.	Churns.	Cream Separators.	Cheese Presses.	Males.	Females.
1900	No. 164	No. 346	No. 19	No. 13	No. 7	No. 4	No. 3	No. 556	£ 255,320	No. 605	No. 3,456	No. 198	No. 272	No. 667	No. 177	No. 1,378	No. 47
1901	158	479	21	14	12	5	1	690	260,543	734	3,753	163	269	772	116	1,586	71
1902	163	306	31	18	6	3	1	523	263,764	576	3,207	153	274	571	147	1,304	56
1903	153	284	31	16	4	3	3	494	246,350	552	3,094	163	262	486	146	1,373	33
1904	145	271	23	14	4	2	1	465	251,322	525	3,086	173	257	431	96	1,364	26
1905	153	255	36	16	3	..	..	463	277,908	546	3,179	195	289	425	104	1,342	9
1906	170	193	57	20	4	..	..	445	255,109	511	3,453	199	311	358	105	1,420	33
1907	176	140	33	16	6	..	..	374	278,380	447	3,413	213	321	274	113	1,369	30
1908	160	172	42	17	3	..	..	397	287,771	466	3,526	197	283	270	123	1,301	24
1909	163	222	43	17	4	1	..	455	286,517	524	3,909	201	291	310	131	1,398	25

In view of the smaller number of live stock, it is only natural that the operations of meat-preserving have declined; but during the past year considerable activity was displayed. There were 732 hands employed in 1909, as against 870 in 1900. The carcasses of 18,468 cattle and 1,061,276 sheep were treated in meat-preserving works, and of 2,482 cattle and 1,599,663 sheep in freezing establishments.

For meat-preserving 2,921,680 lb. of meat were also purchased, in addition to 232 pigs. The output of tinned meat was 20,812,545 lb., valued at £339,133, and other products were valued at £431,812.

The amount of mill-power for grinding and dressing grain is ample for treating the flour consumed in the State; and the fact that New South Wales now produces more than sufficient wheat for its own requirements does not, therefore, make an increase in the number of flour mills probable, as those in existence are not kept working to their full capacity.

In consequence of the failure of the wheat crop for the 1902-3 season, the operations of the mills were much restricted; but with the return of good seasons the industry resumed its normal position. In 1908 the lessened output was due to the decrease in the yield of wheat. The following table shows various details regarding flour mills for a period of ten years :—

Year.	Flour Mills.	Hands Employed.	Wheat Used.	Flour made.	Plant and Machinery.	
					Power (full capacity).	Value.
	No.	No.	Bushels.	Tons.	H. p.	£
1900	86	841	8,345,063	170,423	4,368	275,910
1901	89	889	9,369,534	191,504	4,421	254,335
1902	81	812	8,853,048	185,147	4,495	267,372
1903	79	751	6,030,409	121,074	4,947	262,297
1904	81	875	10,418,979	210,137	4,851	293,328
1905	78	875	10,117,793	205,805	5,158	294,760
1906	78	873	11,151,126	225,995	5,532	297,859
1907	74	858	11,617,905	237,614	4,342	273,459
1908	68	792	8,737,228	180,843	5,609	284,954
1909	71	860	10,466,329	214,426	6,126	307,321

During 1909 the output of bran and pollard amounted to 56,068 tons and 39,946 tons respectively. There does not appear to be any fixed proportion for these by-products, especially in the country districts, as the quantity of each article is regulated solely by the immediate supply and demand.

The principal articles produced in jam and pickle factories during the same year were 23,416,800 lb. of jam and preserves, 393,018 lb. of candied peel, 34,720 lb. of dried and evaporated fruit and pulp, 1,416,160 pints of pickles, 1,541,111 pints of sauces, and 590,722 gallons of vinegar.

Particulars regarding the output of aerated-water factories are now available, and show that during 1909 the following articles were produced, viz. :— 824,580 syphons and 4,268,013 dozen bottles of aerated and carbonated waters, 100,106 dozen of cordials and syrups, 360,201 dozen of hop beer, 661,074 dozen of ginger beer, and £5,250 worth of other cordials. The hands employed show an increase of 69 since 1900, but the number varies with the season of the year, the greatest number at work in 1909 being 1,539. The number of breweries is becoming less each year, and the number of persons engaged is 89 less than in the year 1900. The materials used in breweries for manufacturing purposes and the actual output were :—

Year.	Malt.	Hops.	Sugar.	Other Material.	Ale, Beer, &c., manufactured.
	Bushels.	lb.	Tons.	Centals.	Gallons.
1903	466,673	601,339	3,495	10,081	14,211,888
1904	441,844	557,400	3,252	10,133	13,651,208
1905	458,371	558,661	3,370	6,209	13,873,239
1906	488,982	586,438	3,405	5,530	14,032,390
1907	533,825	636,650	3,651	4,996	15,361,227
1908	559,950	677,884	3,842	4,291	16,202,242
1909	571,526	681,614	3,871	6,440	16,754,728

The output shown above is the actual quantity manufactured, and differs from the figures in the following table, which give the quantity on which excise was paid :—

Year.	Breweries.	Hands Employed.	Ale, Beer, &c., manufactured, which paid Excise.	Horse-power of Plant (full capacity).	Year.	Breweries.	Hands Employed.	Ale, Beer, &c., manufactured, which paid Excise.	Horse-power of Plant (full capacity).
	No.	No.	Gallons.	H.-p.		No.	No.	Gallons.	H.-p.
1900	52	920	13,410,800	1,623	1905	42	1,023	13,248,336	1,089
1901	51	1,016	13,253,600	1,477	1906	39	881	13,587,336	1,087
1902	46	1,033	14,029,648	1,074	1907	38	854	14,994,537	1,253
1903	45	969	13,201,098	982	1908	37	885	15,791,878	1,426
1904	42	968	12,877,757	961	1909	37	831	16,154,906	1,416

The local malt works treated 252,180 bushels of barley during 1909, and produced 244,474 bushels of malt, valued at £74,838.

There are two distilleries in the State, one of which is a wine distillery, the output being 9,878 proof gallons of brandy from 56,442 gallons of wine; the other establishment is worked in connection with sugar-refining, and used 222,554 cwt. of molasses in 1909 for 1,132,917 gallons of proof spirit.

A number of vigneron are licensed by the Customs Department to distil spirit for fortifying purposes, and during the year 89,868 gallons of wine produced 16,561 proof gallons of brandy.

The manufacture of sugar has long been an important industry, and so far back as 1878 there were 50 mills, of which 24 used steam-power, and 26 were worked by cattle, the number of workmen employed being 1,065.

These had increased in the year 1886 to 83 steam-mills and 19 worked by cattle, whilst the number of men employed and the quantity of sugar and molasses produced had correspondingly increased ; but since that time the fall in the value of sugar has caused the closing of all the smaller establishments. Almost everywhere the tendency to concentrate the manufacture of sugar in large central establishments is increasing, and the small mills are rapidly disappearing to make room for larger, where business is confined strictly to the industrial process of sugar-making, the planters attending solely to the cultivation of the cane. Many of the farmers on the North Coast have abandoned sugar-growing in favour of dairying, consequently the area under cane is much smaller than it was ten years ago, and the production has correspondingly decreased. There are at present only 4 mills in the State, and employment is afforded to little more than half the number of hands engaged eleven years ago :—

Year.	Sugar Mills.	Hands Employed.	Horse-power of Plant (full capacity).	Quantity manufactured (as returned by manufacturers).	
			Steam.	Sugar.	Molasses.
	No.	No.	H. p.	cwt.	Gallons.
1900	8	690	2,988	398,760	1,179,600
1901	12	695	2,995	390,375	1,300,909
1902	8	633	3,407	430,884	1,073,640
1903	6	586	3,146	435,718	1,367,020
1904	6	643	3,146	400,150	1,296,590
1905	5	652	3,140	402,040	1,263,100
1906	5	622	3,485	479,993	1,305,466
1907	5	610	3,491	553,446	1,211,000
1908	4	543	3,196	299,920	922,549
1909	4	529	3,180	296,200*	1,072,400*

* From 131,088 tons of sugar-cane.

There is only one sugar refinery in the State, and it treats both local and imported sugars, so that its operations are extending each year. The hands employed show a great decrease since 1900, but owing to increased power and improvements in plant, the quantity of sugar treated has increased. The following table shows particulars of the industry since 1900. The sugar-cane treated in 1909 represented 1,848,180 cwt. of refined sugar :—

Year.	Sugar Refinery.	Hands Employed.	Cane Sugar Treated.	Horse-power of Plant (full capacity).	Year.	Sugar Refinery.	Hands Employed.	Cane Sugar Treated.	Horse-power of Plant (full capacity).
	No.	No.	cwt.	H. p.		No.	No.	cwt.	H. p.
1900	1	510	1,191,000	700	1905	1	410	1,368,000	948
1901	1	450	1,246,600	1,000	1906	1	454	1,459,400	932
1902	1	531	1,179,200	958	1907	1	431	1,554,200	1,031
1903	1	415	1,284,380	973	1908	1	487	1,732,000	982
1904	1	390	1,313,800	974	1909	1	555	1,896,500	1,024

Tobacco of local manufacture is, to a large extent, superseding the imported article ; the cigarettes made in this State now practically command the Australian market ; and the manufacture of cigars is also increasing.

A large amount of imported leaf is used in the manufacture of tobacco, the proportion of locally-grown tobacco being less than one-third. As shown in the chapter on "Agriculture," the acreage and production of tobacco declined in each year from 1897 to 1901. A decided increase is noticeable in later years, and efforts have been made to stimulate the industry, the

manufacturers having arranged to take all the leaf grown, at fixed prices according to quality. The following table shows details of the operations of tobacco factories for the last ten years. The large increase in the number of females is principally due to the extension of cigarette making:—

Year.	Establishments.		Hands Employed.		Tobacco Leaf used.		Tobacco, Cigars, and Cigarettes manufactured.			Plant and Machinery.	
	Tobacco.	Cigars and Cigarettes.	Males.	Females.	Australian grown Leaf.	Imported Leaf.	Tobacco.	Cigarettes.	Cigars.	Power (full capacity).	Value.
1900	7	13	557	292	875,236	1,558,970	2,045,932	364,803	50,168	221	49,165
1901	6	14	621	440	883,615	2,114,456	2,524,231	457,276	67,128	302	69,124
1902	5	13	678	440	966,156	2,520,581	3,089,613	634,175	66,330	338	82,269
1903	5	18	669	426	1,009,745	2,714,578	3,329,938	790,697	45,297	462	92,355
1904	4	17	643	376	1,256,339	2,709,569	3,404,201	829,851	47,756	464	106,793
1905	4	16	573	391	1,145,923	2,606,702	3,318,719	818,400	48,850	425	104,766
1906	5	20	649	397	1,178,183	3,056,906	4,057,965	837,835	50,326	431	104,226
1907	5	23	622	497	1,050,107	3,254,656	3,899,196	972,875	54,048	435	111,346
1908	3	25	665	674	1,039,909	3,549,966	3,916,388	1,119,269	57,716	567	119,723
1909	2	23	629	631	847,030	3,570,143	3,694,918	1,300,045	57,148	571	120,216

For the years prior to 1902 the figures, showing the Australian-grown tobacco leaf used, represent New South Wales leaf only.

CLOTHING AND TEXTILE FABRICS.

These industries afford the greatest employment numerically, but in point of production and wages paid they are below several of the other classes. Since 1900 the number of hands employed has increased by 10,100, of whom 1,668 were males and 8,432 females. In the earlier year males represented 47 per cent. of the total employees, and in 1909 only 30 per cent. The number of hands engaged in each branch of the industry is shown in the following table:—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery Plant, &c.
		Males.	Females.	Total.				
CLASS VII.—CLOTHING AND TEXTILE FABRICS, &c.								
Woollen and Tweed Mills ..	7	283	345	628	Months.	£	No.	£
Boots and Shoes ..	102	2,854	1,606	4,460	10-20	28,744	659	82,117
Slop Clothing ..	86	890	4,686	5,576	11-85	308,283	591	141,822
Clothing (Tailoring) ..	298	1,978	2,459	4,467	11-85	280,041	40	33,285
Dressmaking and Millinery (makers' material)	177	55	3,492	3,547	11-82	314,598	....	13,438
Dressmaking and Millinery (customers' material)	121	1	907	908	11-82	119,129	....	7,720
Dyeworks and Cleaning ..	7	36	25	61	11-66	18,698	....	3,795
Furriers ..	3	16	22	38	12-00	4,332	16	1,920
Hats and Caps ..	30	398	951	1,349	11-84	2,711	....	250
Waterproof and Oilskin ..	4	23	124	152	11-54	65,444	169	39,966
Shirts, Ties, and Scarfs ..	42	103	1,315	1,418	11-91	6,858	10	2,422
Rope and Cordage ..	5	209	3	212	11-97	54,964	36	17,431
Sailmaking ..	5	24	....	24	12-00	16,562	250	26,920
Tents and Tarpaulins ..	12	117	204	321	12-00	2,105	1	193
Total ..	899	6,992	16,169	23,161	11-79	1,239,156	1,832	378,979

Although one of the greatest wool-producing countries in the world, only 628 hands find employment in the manufacture of woollen materials. Woollen-mills were amongst the earliest works established in the State, but the industry has progressed but little since its inception, and the number of

hands employed until the last four years, when a decided increase took place, has practically remained stationary for forty years. Details of the hands employed, and the output for the last ten years, are given below :—

Year.	Woollen Mills.	Hands Employed.			Woollen Cloth and Tweed manufactured.	Horse-power of Plant (full capacity).
		Males.	Females.	Total.		
	No.	No.	No.	No.	yds.	H. p.
1900	4	163	58	221	460,187	210
1901	4	162	72	234	525,020	325
1902	4	172	104	276	566,296	305
1903	4	170	110	280	458,302	330
1904	3	148	97	245	481,289	305
1905	3	151	111	262	459,590	329
1906	5	160	178	338	498,164	327
1907	5	179	216	395	512,640	397
1908	5	210	245	455	524,885	656
1909	7	283	345	628	594,512	924

During 1909, 547,568 lb. of scoured wool were used in the mills, and, in addition to the cloth shown above, there were manufactured flannel, blankets, rugs and shawls to the value of £23,041. The quantity of cloth manufactured showed no signs of increase until the latter half of 1905, and it is apparent that a disinclination has existed, on the part of purchasers, to buy clothing made from locally-made tweed, although the mills are capable of producing cloth of very high quality. Since 1905 there has been an improved demand for locally-made cloth; but until the prejudice in favour of imported tweeds has been overcome, no great expansion in the industry can be expected.

The progress of the boot and shoe factories has been more satisfactory, as will be seen from the following table :—

Year.	Boot and Shoe Factories.	Hands Employed.			Output (as returned by manufacturers).	
		Males.	Females.	Total.	Boots and Shoes made.	Slippers, and Canvas and Cloth Shoes made.
	No.	No.	No.	No.	Pairs.	Pairs.
1900	94	2,906	1,047	3,953	3,269,935	387,156
1901	100	2,861	1,118	3,979	2,821,724	512,584
1902	102	2,886	1,212	4,098	3,052,914	451,588
1903	93	2,938	1,350	4,288	3,166,475	397,531
1904	92	2,858	1,459	4,317	3,291,087	477,302
1905	98	3,021	1,444	4,465	3,250,243	435,912
1906	102	3,178	1,589	4,767	3,567,555	378,599
1907	102	3,163	1,623	4,786	3,637,868	460,132
1908	105	3,048	1,602	4,650	3,672,244	440,571
1909	102	2,854	1,606	4,460	3,597,359	408,527

A striking feature of the above table is the large increase in the employment of females. During the ten years the number of males decreased by 52, while the females increased by 559, or over 53 per cent., and now represent more than one-third of the hands employed.

Of all the industries none has progressed so rapidly as that connected with the manufacture of hats and caps. Until 1898 less than 100 hands were employed, but each year has seen an increase, and in the seven years from 1903 to 1909 there was an average annual increase of about 120 hands:—

Year.	Hat and Cap Factories.	Hands Employed.			Power of Machinery.	Value of Plant and Machinery.
		Males.	Females.	Total.		
	No.	No.	No.	No.	H.-p. (full capacity).	£
1900	10	97	183	280	15	5,300
1901	10	132	198	330	27	7,034
1902	10	185	289	474	37	19,422
1903	15	225	318	543	142	22,152
1904	18	269	460	729	139	26,117
1905	21	318	586	904	120	29,650
1906	23	342	694	1,036	144	32,570
1907	22	335	759	1,094	175	35,653
1908	26	361	860	1,221	216	34,315
1909	30	398	951	1,349	247	39,966

The hats and caps manufactured during 1909 numbered 2,231,449, valued at £226,657.

A large number of females now find employment in making shirts, ties, and scarfs. The industry is comparatively new, for in 1898 only 74 persons were thus engaged, and in 1900, before the Federal tariff came into operation, 133. In 1909 the number was 1,418.

There has been a large increase in the number of hands engaged in the clothing trade, in "slops" and order work; in the former trade more attention is being devoted to the manufacture of ready-made costumes for women.

BOOKS, PAPER, PRINTING, &C.

These industries give employment to 8,045 persons, who are mostly engaged in printing or bookbinding; the number engaged in manufacturing was only 1,158, the greater portion of whom were employed in making paper bags or boxes. In the process of bookbinding and in the manufacture of paper boxes and bags, girls are largely employed, and their employment is increasing; in 1900, females represented 14 per cent. of the total hands, as against 24 per cent. in 1909. The details of each industry for the latter year were as follow:—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS VIII.—BOOKS, PAPER, PRINTING, &C.								
Electrotyping and Stereotyping...	4	42	...	42	Months	£	No.	£
Paper-making, Paper-boxes, Bags, &c.	27	459	699	1,158	11-30	63,161	677	89,321
Photo-engraving	17	169	20	189	12-00	16,373	2	16,613
Printing and Binding	333	5,466	1,190	6,656	11-27	648,968	914	725,637
Total ...	381	6,136	1,909	8,045	11-27	732,359	1,593	839,067

MUSICAL INSTRUMENTS.

There are twelve establishments engaged in the manufacture and repairing of musical instruments and sewing machines, and they employed 335 males and 35 females, who received wages amounting to £37,628. The machinery in use was 57 horse-power, and the value of the machinery and plant £9,250. The most important of the industries is piano-making, and instruments of a high class are now being produced.

ARMS AND EXPLOSIVES.

The manufacture of small arms and ammunition is a matter of national importance, which has occupied the attention of the Commonwealth Government, and it is expected that a small arms factory at Lithgow will be opened at an early date. In New South Wales there are only three establishments for the manufacture of explosives, which employed 25 males and 6 females during 1909, and paid £2,363 in wages. The machinery in use was 6 horse-power, and the value of machinery and plant £684.

VEHICLES, SADDLERY, HARNESS, &C.

The greater portion of the work done in these establishments is connected mainly with the repair of vehicles; but there are many establishments where coaches and waggons are built throughout. With the extension of the railways and tramways, and the introduction of other improvements in methods of locomotion, this industry cannot be expected to show much further development. But with a gradual increase during the last seven years, the hands employed in 1909 exceeded those employed in 1903 by 686. Other industries in this class, such as cycle-building, are growing in importance, and the whole group of industries employs 1,581 hands more than in 1903. The following table shows the operations of each industry during 1909:—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS XI.—VEHICLES, SADDLERY, HARNESS, &C.					Months	£	No.	£
Coach and Waggon Building ...	226	2,188	6	2,204	11·80	167,465	210	42,292
Cycles ...	32	506	15	521	11·48	44,532	39	13,554
Perambulators ...	3	68	4	72	12·00	4,168	...	387
Saddlery and Harness ...	72	720	44	764	11·97	60,170	18	6,688
Whips ...	3	19	3	22	12·00	1,232	...	60
Spokes, &c. ...	8	99	1	100	11·67	8,368	160	8,074
Total ...	344	3,610	73	3,683	11·79	285,935	427	70,455

SHIP AND BOAT BUILDING AND REPAIRING, &C.

In ship-building there are signs of greater development than hitherto, as, in addition to wooden vessels, it has been shown that large iron vessels can be constructed. At present, however, nearly all the ships built in the State are small wooden vessels for the river and island trades, or for passenger traffic between Sydney and its suburbs. In regard to boat-building, there is always considerable employment afforded in the Metropolitan district by the constant demand for yachts, motor-launches, and other pleasure craft. In the docking of ships, there are considerably less hands employed than formerly, although additional accommodation has been provided, and there are now three of the largest graving docks in the world at Sydney. Employment in this connection, however, is subject to great fluctuation, and

at one period of the year there were 1,154 hands employed in dockyards alone. The following table shows the details of each industry for 1909 :—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS XII.—SHIP AND BOAT BUILDING AND REPAIRING.								
Docks and Slips	6	660	...	660	12-00	90,692	1,565	274,900
Ship and Boat Building and Repairing... ..	33	1,136	...	1,136	11-86	131,394	322	60,188
Total	39	1,796	...	1,796	11-91	222,076	1,887	355,088

FURNITURE, BEDDING, &C.

Industries connected with the manufacture of furniture, bedding, &c., have increased greatly in importance since 1900, when only 1,916 hands were employed. The chief increase has been in furniture making, but it is a matter for regret that the industry is, to a large extent, in the hands of the Chinese. Of the 1,892 hands engaged in this industry during 1909, 737, or nearly 39 per cent. were Chinese. The particulars relating to each industry for the year 1909 are shown in the following table :—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS XIII.—FURNITURE, BEDDING, &C.								
Bedding, Flock, and Upholstery	20	297	70	367	11-48	33,011	102	6,191
Billiard Tables... ..	3	64	1	65	12-00	7,256	16	1,552
Chair-making	11	110	13	123	11-24	9,915	31	3,055
Furniture and Cabinet-making	96	1,881	11	1,892	11-85	173,552	259	23,677
Picture Frames	15	121	35	156	11-43	10,183	10	2,464
Window Blinds	6	62	1	63	11-57	4,326	5	669
Furnishing Drapery, &c.	3	54	126	180	11-70	12,046	...	774
Total	160	2,589	257	2,846	11-75	250,319	423	37,382

DRUGS AND CHEMICALS AND BY-PRODUCTS.

There are several large establishments for the manufacture of drugs and chemicals, and one-third of the hands are females, who are principally engaged in packing or labelling the manufactured articles. The manufacture of by-products includes many articles such as baking powder, blue, blacking, &c., for domestic use, and the local article is gradually superseding imported goods. The following are the leading details in regards to each industry for the year 1909 :—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS XIV.—DRUGS AND CHEMICALS.								
Baking Powder and Self-raising Flour	16	86	65	151	11-64	11,695	23	7,657
Chemicals, Drugs, and Medicines... ..	28	394	274	668	11-74	54,019	267	127,936
Fertilisers	3	59	...	59	12-00	5,833	85	7,792
Paints and Varnishes, &c.	22	205	119	324	11-72	20,435	246	21,944
Total	69	744	458	1,202	11-73	91,922	621	165,329

SURGICAL AND SCIENTIFIC APPLIANCES.

Most of the establishments herein are engaged in the manufacture of optical instruments, such as spectacles, &c. The total number of establishments was 11, in which 65 males and 19 females were engaged throughout the year, receiving £6,977 in wages. The average power of machinery in use was 6 horse-power, and the value of machinery and plant £3,931.

TIMEPIECES, JEWELLERY, AND PLATED WARE.

While there are, as a matter of course, numerous small establishments where timepieces are repaired, there are but few of any kind in which the articles are actually manufactured, and these are included with those engaged in manufacturing jewellery:—

Industries.	Number of Establishments.	Average Number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery in use.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS XVI.—TIMEPIECES, JEWELLERY, AND PLATED WARE.								
					Months	£	No.	£
Electro-plating	10	132	5	137	11·82	10,617	34	6,195
Manufacturing Jewellery ..	32	419	52	471	12·00	43,126	...	10,318
Total... ..	42	551	57	608	11·96	53,743	34	16,513

HEAT, LIGHT, AND POWER.

Establishments connected with the supply of heat, light, and power, show an increase each year, and the number of hands employed has been doubled within the last ten years:—

Industries.	Number of Establishments.	Average Number of Hands Employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery in use.	Value of Machinery, Plant, &c.
		Males.	Females.	Total.				
CLASS XVII.—HEAT, LIGHT, AND POWER.								
					Months	£	No.	£
Coke-works	13	453	...	453	9·18	44,093	27	113,451
Electric Apparatus... ..	16	190	...	190	12·00	16,063	7	3,706
Electric Light and Power ...	103	769	...	769	11·53	103,906	40,611	1,047,680
Gas-works and Kerosene... ..	39	823	1	824	12·00	113,793	1,186	700,812
Lamps and Fittings, &c....	3	30	46	76	12·00	6,438	6	2,700
Hydraulic Power	1	20	...	20	12·00	2,127	500	27,642
Total... ..	175	2,285	47	2,332	11·30	263,420	43,137	1,865,991

The chief development in this class has occurred in connection with the supply of electric power and light, principally owing to the establishment of the metropolitan tramway and electric lighting systems.

The value of the machinery used in furnishing electric power and light now exceeds the plant in gas-works by £399,868, and the engines have a

capacity of 66,428 horse-power. The rapid progress of these establishments is shown by the following table:—

Year.	Electric Supply Works.	Hands Employed.	Plant and Machinery.	
			Power (full capacity).	Value.
	No.	No.	H.-p.	£
1900	33	191	3,961	110,051
1901	53	340	12,447	282,842
1902	58	413	21,175	469,985
1903	73	434	21,994	528,587
1904	65	464	24,492	624,686
1905	67	521	31,862	778,313
1906	66	565	38,327	975,723
1907	91	634	43,215	1,109,535
1908	97	748	46,200	1,012,231
1909	103	769	66,428	1,047,680

Considerable progress has been made in the installation of electric lighting plants; but the use of gas is continually extending for lighting, power, and cooking. The following table shows particulars of the operations of gas-works during each of the last ten years. The value of plant does not include mains.

The rate charged to consumers varies in different country localities between 3s. per 1,000 feet in Bathurst and 15s. in Deniliquin. The price charged by the principal company in Sydney to private consumers is at present 4s. per 1,000 feet, but will be reduced to 3s. 9d. at the beginning of the year 1911.

Year.	Gas-works.	Hands Employed.	Gas made (as returned by manufacturers).	Plant and Machinery.	
				Power (full capacity).	Value.
	No.	No.	1,000 cubic feet.	H.-p.	£
1900	41	620	2,007,054	1,101	463,206
1901	38	650	2,138,631	1,065	480,533
1902	42	648	2,304,814	1,011	536,338
1903	39	716	2,487,807	1,001	542,775
1904	40	692	2,598,650	1,091	601,976
1905	43	663	2,683,396	1,057	598,047
1906	46	719	2,790,494	1,361	647,339
1907	40	679	3,044,756	1,273	607,856
1908	39	689	3,307,083	1,368	610,914
1909	37	748	3,503,402	1,394	647,812

During 1909 the quantity of coal used for gas was 267,914 tons, which, in addition to the gas, produced 147,803 tons of coke and 2,995,287 gallons of tar.

LEATHERWARE.

There are 274 males and 48 females employed in the manufacture of leatherware not elsewhere included, the majority of whom are engaged in making bags and portmanteaux. The employees in this class were busily engaged throughout the year, and received £21,521 as wages. The power of the machinery in average use was 99 horse-power, and the value of the machinery and plant was £6,604.

MINOR WARES.

Of the minor industries which cannot be classified under any of the preceding headings, the more important are broom and brush making, umbrella-making, and the manufacture of baskets, wicker-ware, and mats. The brooms are manufactured principally from millet grown in the State. An interesting feature of this industry is the employment which it affords to persons afflicted with blindness, and in 1909 there were 74 males and 22 females in the Sydney Industrial Blind Institution, who were employed in the manufacture of brushes, baskets, mats, &c. The particulars of the different industries for the year 1909 were as follows :—

Industries.	Number of Establishments.	Average number of Hands employed.			Average time worked per hand.	Amount of Wages paid.	Average Horse-power of Machinery used.	Value of Plant, Machinery, &c.
		Males.	Females.	Total.				
CLASS XIX.—MINOR WARES.								
Baskets and Wicker-ware,					Months	£	No.	£
Matting, &c.	8	96	2	98	11·69	4,832	...	360
Brooms and Brushware ...	18	174	22	196	11·89	14,179	35	5,451
Rubber Goods ...	6	135	22	157	12·00	12,256	297	23,728
Toys ...	2	8	...	8	12·00	174	6	300
Umbrellas ...	5	59	109	168	12·00	9,268	...	1,725
Other Industries ...	15	125	65	190	11·63	12,674	40	17,391
Total ...	54	597	220	817	11·83	53,433	378	48,955

AVERAGE TIME WORKED.

In the preceding table the average time worked per hand has been shown for each class. Taking the classes as a whole, it will be found that each employee worked, on an average, for 11·46 months of the year. It is, of course, impossible to show the actual time worked by employees ; but from the figures given it will be seen that many of the workers suffered loss from broken time, the most unfortunate in this respect being those engaged in industries dealing with raw materials—the product of pastoral pursuits.

WAGES.

The wages paid to employees in factories amounted in 1909 to £7,665,125, equal to £147,406 per week ; so that their enforced idleness during part of the year caused a loss of about £361,200 to the workers.

It is impossible from the bare statements of wages supplied in these returns to give an approximation of the average wages of the workers, as there are so many matters which have a direct bearing on the subject. The ages of the workers, the quantity of skilled and unskilled labour, the relative employment of males and females, the length of time worked by each class of workers, are matters of vital importance in ascertaining the fair average wage paid, and details as to these subjects are not available.

Under the provisions of the Factories and Shops Act, however, information is collected regarding the wages paid in factories which come within its operations. The subject is too comprehensive to be dealt with in this volume ; but complete information will be found in the "Statistical Register," which is published each year.

POWER AND VALUE OF MACHINERY AND PLANT.

New South Wales has few running streams so situated as to be available for the purpose of driving machinery for manufacturing purposes, and nearly the whole of the power used is derived from steam; but in some instances, chiefly in the metropolis, gas is employed. Other power is used only to a limited extent, and although electric engines of 16,368 horse-power are shown in the following table, they are used mainly for lighting or motive purposes, and, in addition, their power is usually dependent upon some other class of engine for its development. In the table given below the number of establishments using machinery is shown, with the aggregate horse-power. By the term "full capacity" is understood the power which can be generated by the boilers or machinery, while the "average used" represents the power generally used in carrying on the processes of manufacture:—

Class of Industry.	Value of Machinery, Implements, Tools, and Conveyance Plant.	Number of Establishments using Machinery.	Horse-power of Machinery in use.									
			Full Capacity.					Average used.				
			Steam.	Gas.	Electricity.	Water.	Oil.	Steam.	Gas.	Electricity.	Water.	Oil.
Treating Raw Materials, Product of Pastoral Pursuits, &c.	232,339	258	3,807	715	86	14	39	2,805	501	43	10	22
Oils and Fats, Animal, Vegetable, &c.	155,071	22	459	...	206	...	...	381	...	506	...	...
Processes in Stone, Clay, Glass, &c.	534,216	114	6,818	1,043	1,640	...	47	4,969	643	715	...	39
Working in Wood	497,215	552	10,789	1,455	2,123	57	19	8,270	1,068	1,546	49	17
Metal Works, Machinery, &c. Connected with Food and Drink, &c.	2,309,064	385	16,706	2,300	5,744	...	187	13,259	1,539	4,287	...	131
Clothing and Textile Fabrics, and Materials	2,714,561	685	19,647	1,602	2,130	6	209	13,860	1,193	1,438	5	146
Books, Paper, Printing, and Engraving	378,979	258	1,077	1,413	678	...	10	746	1,077	592	...	9
Musical Instruments	830,097	306	768	1,194	1,986	4	120	605	907	1,599	2	81
Arms and Explosives	9,250	6	41	40	66	...	...	41	16	63	...	...
Vehicles and Fittings, Saddlery and Harness, &c.	684	1	8	...	...	...	...	6	...	...	...	...
Ship and Boat Building, &c.	70,455	97	312	185	135	...	59	252	125	110	...	50
Furniture, Bedding, and Upholstery	355,088	29	2,242	60	643	...	...	1,835	52	427	...	...
Drugs, Chemicals, and By-products	37,382	86	229	293	264	...	10	184	231	211	...	8
Surgical and other Scientific Instruments	165,329	57	522	362	230	...	...	374	247	177	...	...
Jewellery, Timepieces, and Plated Ware	3,931	9	...	10	8	...	...	...	6	8	...	...
Heat, Light, and Power	16,513	22	...	48	93	...	...	...	34	85	...	...
Leatherware, N.E.I.	1,895,991	157	68,158	1,263	159	291	35	42,022	937	143	148	35
Minor Wares, N.E.I.	6,604	13	16	112	4	...	5	8	86	4	...	5
Total	48,955	32	470	73	173	...	...	322	56	119	...	...
Total	10,330,724	3,089	132,069	12,168	16,368	372	740	89,917	8,658	11,773	209	543

Some explanation is necessary in connection with these figures. Although electrical power is shown in the table just given, it is excluded from consideration in the figures quoted in this chapter, as it is usually dependent on steam-engines for its development, and the power has already been credited to their agency. The value of machinery and plant includes not only the machinery and engines of which the horse-power is shown, but also all other tools and implements used in the various processes of manufacture, as well as the conveyance plant. The most powerful machinery is used in the supply of heat, light, and power, in the manufacture of metals, and in the preparation of foods and drinks, while in the clothing industries machinery enters into use only to a minor degree.

The power of machinery in average use increased from 35,828 horse-power in 1900 to 99,327 horse-power in 1909, while the value of the machinery and plant in these years was £5,707,640 and £10,330,724 respectively ; so that in this respect alone there is now an additional investment of capital to the extent of over £4,600,000.

CAPITAL INVESTED.

The capital invested in the manufacturing industry may be divided into two classes, fixed capital and active capital. Fixed capital represents the amount invested in lands, buildings, machinery and plant, tools and implements of trade, and good-will. Active capital includes the value of raw material and fuel on hand, stock in process of manufacture, finished products on hand, bills receivable, ledger accounts, cash in hand, and sundries not elsewhere included. The approximate amount of fixed capital can be readily ascertained, since the value of land and buildings occupied for manufacturing purposes, as well as the value of machinery and plant, implements and tools of trade, is obtained each year. Concerning the active capital no particulars are collected, and there are little or no data from which an estimate may be prepared.

The value of land and buildings in 1909 was £6,625,100, and of machinery, plant, &c., £10,330,700, so that the fixed capital amounted to £16,955,800.

The value of the land and buildings, machinery and plant, &c., in each industry is shown in the following table, which also contains some interesting information for the year 1909 regarding the value of materials used, and the value of goods manufactured or work done:—

Class of Industry.	Value of—						
	Lands, Buildings, and Fixtures.	Machinery, Implements, and Conveyance Plant.	Rent Paid.	Materials used.	Fuel consumed.	Wages and Salaries paid.	Goods Manufactured or Work Done.
Treating Raw Materials, product of Pastoral pursuits, &c. ...	£	£	£	£	£	£	£
Oils and Fats, Animal, Vegetable, &c. ...	212,162	232,359	6,622	3,747,518	36,704	270,569	4,230,922
Processes in Stone, Clay, Glass, &c. ...	147,368	165,071	1,169	506,981	11,164	54,305	754,682
Working in Wood ...	379,084	534,216	6,349	206,914	122,170	399,533	1,003,226
Metal Works, Machinery, &c. ...	317,942	497,215	14,139	1,258,759	10,085	558,168	2,201,867
Connected with Food, Drink, &c. ...	1,511,419	2,309,064	26,704	4,960,272	349,860	2,086,717	8,756,007
Clothing and Textile Fabrics and Materials ...	1,676,275	2,714,561	42,680	9,474,780	120,812	1,014,262	12,329,782
Books, Paper, Printing, and Engraving ...	274,065	378,079	73,662	2,162,124	20,912	1,230,156	4,140,266
Musical Instruments ...	325,770	899,097	44,202	63,910	22,767	732,359	1,861,917
Arms and Explosives ...	18,170	9,250	421	66,890	308	37,897	129,888
Vehicles and Fittings, Saddlery, Harness, &c. ...	1,655	684	52	7,450	35	2,363	10,287
Ship and Boat Building, &c. ...	124,576	70,455	18,474	3,12,235	8,122	235,635	794,487
Furniture, Bedding, and Upholstery ...	556,519	355,083	2,132	126,598	8,517	222,076	391,437
Drugs, Chemicals, and By-products ...	43,131	37,382	13,193	3,0,130	3,277	250,319	740,562
Surgical and other Scientific Instruments ...	77,585	165,329	5,525	403,559	12,359	91,922	733,685
Jewellery, Timepieces, and Plated Ware ...	5	3,931	1,744	6,155	153	6,977	22,600
Heat, Light, and Power ...	10	16,513	4,136	69,666	1,065	53,743	157,762
Leatherware, N.E.C. ...	580,092	1,895,591	3,372	330,221	169,977	283,430	1,614,430
Minor Wares, N.E.C. ...	18,782	6,604	844	82,783	373	21,521	126,545
Minor Wares, N.E.C. ...	29,556	48,925	3,911	132,708	3,463	53,483	240,967
Total ...	6,625,066	10,330,724	274,331	24,783,723	523,003	7,665,125	40,241,878

* If property of occupier. † Including value of wool treated.

Similar information regarding the factories of the Metropolitan district is given in the following table, which shows that the goods manufactured and work done in this district represents a very large proportion of the total output:—

Class of Industry.	Value of—						
	£ Lands, Build- ings, and Fix- tures.	£ Machinery, Implements, and Conveyance Plant.	£ Rent Paid.	£ Materials used.	£ Fuel consumed.	£ Wages and Salaries paid.	£ Goods Manu- factured or Work Done.
Treating Raw Materials, product of Pastoral pursuits, &c. ...	158,339	163,758	4,818	2,134,594	23,667	183,280	2,560,971
Oils and Fats, Animal, Vegetable, &c. ...	121,009	105,441	782	372,323	7,692	37,470	584,050
Processes in Stone, Clay, Glass, &c. ...	254,657	249,396	3,853	144,632	65,253	250,849	609,095
Working in Wood ...	200,399	161,969	9,326	704,045	6,520	249,863	1,116,014
Metal Works, Machinery, &c. ...	1,054,212	854,442	23,474	1,676,518	49,234	1,167,810	3,317,575
Connected with Food, Drink, &c. ...	923,835	1,417,422	30,728	6,506,750	71,669	591,867	8,392,252
Clothing and Textile Fabrics and Materials. ...	251,560	343,586	65,422	1,964,177	18,015	1,091,413	3,699,624
Books, Paper, Printing, and Engraving ...	264,080	667,206	37,312	592,077	18,177	612,948	1,622,542
Musical Instruments ...	18,170	9,250	421	66,890	308	37,897	129,898
Arms and Explosives ...	1,655	684	52	7,450	35	2,393	10,287
Vehicles and Fittings, Saddlery, Harness, &c. ...	55,448	29,275	10,566	176,940	2,955	141,163	393,795
Ship and Boat Building, &c. ...	550,724	350,803	1,830	108,590	8,259	210,214	357,680
Furniture, Bedding, and Upholstery ...	38,317	35,257	12,662	356,924	3,684	239,537	710,296
Drugs, Chemicals, and By-products ...	64,321	92,909	5,317	361,549	5,873	81,135	656,871
Surgical and other Scientific Instruments ...	5	3,831	1,666	6,117	151	6,977	22,399
Jewellery, Timepieces, and Plated Ware ...	10	15,815	3,816	68,864	1,945	51,568	153,876
Heat, Light, and Power ...	681,619	1,383,754	3,021	224,479	117,681	183,227	1,091,857
Leatherware, N.E.I. ...	18,782	6,604	844	82,783	373	21,521	126,545
Minor Wares, N.E.I. ...	28,084	47,879	3,872	133,617	3,445	52,818	256,984
Total ...	4,655,226	5,939,281	219,782	15,658,310	473,436	5,198,926	25,792,611

* If property of occupier. † Including value of wool treated.

VALUE OF PRODUCTION FROM MANUFACTORIES.

In stating the value of production from manufactories, the returns from factories dealing with milk products are not taken into consideration, as they have already been included in the value of production from the dairying industry.

The value of goods manufactured or work done in 1909 amounted to £40,241,578. Of this amount, £25,705,816 represent the value of materials and fuel used, leaving a balance of £14,535,762 the value added by the processes of treatment, which is the real value of production from manufactories. The sum last mentioned includes wages to the amount of £7,665,125, so that the actual amount which accrued to the proprietors was £6,870,637. It is interesting to note the proportions of the total output which the various items represent, and they are therefore, shown in the following table:—

Item.	Amount.	Proportion of total.
	£	per cent.
Value of materials used ...	24,783,723	61·6
Value of fuel used ...	922,093	2·3
Wages paid ...	7,665,125	19·0
Balance which accrued to proprietors ...	6,870,637	17·1
Value of goods manufactured or work done ...	40,241,578	100·0

From this it will be seen that out of every hundred pounds worth of goods produced in factories, materials and fuel used in the manufacture thereof cost about £64, while the employees received £19 and the proprietors £17. There are, of course, numerous other sources of expense, and the balance shown as accruing to proprietors by no means represents the actual profits. A considerable margin must be allowed for such items as renewal of plant and machinery, &c., insurance, rent, advertising, rates, taxes other than duty or income tax, and, in addition, a sum to cover the interest on invested capital; the balance being the actual reward of the manufacturers' exertions.

Moreover, it will be seen from the following table that the proportions of the items vary considerably in the different classes of industries:—

Class of Industry.	Proportionate Value of Manufactured Good represented by—			
	Materials.	Fuel.	Wages.	Balance Accruing to Proprietors.
	per cent.	per cent.	per cent.	per cent.
Treating Raw Materials, Pastoral Products ..	83·85	·87	6·40	8·88
Oils and Fats, &c.	67·15	1·48	7·19	24·18
Processes in Stone, Clay, Glass, &c.	20·56	12·18	39·82	27·44
Working in Wood	58·53	·46	25·35	15·66
Metal Works, Machinery, &c.	56·88	3·99	23·83	15·30
Connected with Food and Drink, &c.	76·84	·98	8·23	13·95
Clothing and Textile Fabrics, &c.	52·22	·50	29·93	17·35
Books, Paper, Printing, and Engraving ..	34·37	1·22	39·33	25·08
Musical Instruments, &c.	51·49	·24	29·17	19·10
Arms and Explosives	72·42	·34	22·97	4·27
Vehicles, Saddlery, and Harness, &c.	43·03	1·02	35·99	19·91
Ship and Boat Building, Repairing, &c.	32·34	2·17	56·73	8·76
Furniture, Bedding, Upholstery, &c.	49·85	·34	33·80	16·01
Drugs, Chemicals, and By-products ...	55·00	1·68	12·53	30·79
Surgical and other Scientific Instruments ..	27·22	·68	30·86	41·24
Timepieces, Jewellery, and Plated Ware ..	44·16	·69	34·06	21·09
Heat, Light, and Power	22·88	11·77	17·55	47·80
Leatherware, N.E.I.	65·42	·29	17·10	17·19
Minor Wares, N.E.I.	54·87	1·45	22·19	21·49
	61·59	2·29	19·05	17·07

The table discloses some curious results, and shows that so far as two classes of industries were concerned—those engaged in treating raw pastoral products, and in the manufacture of arms and explosives—the profit gained by the proprietors on the year's operations must have been very small. As regards the first-mentioned industry, however, the receipts from the sale of by-products might reasonably be expected to increase the profits.

It is interesting to note the extent to which the value of materials is enhanced by the processes of treatment. For all industries, materials averaged 62 per cent. of the value of the output; but there was great diversity amongst the various classes, and the proportion ranged from 21 per cent. in those industries engaged in processes in stone, clay, glass, &c., to 84 per cent. in those treating raw pastoral products. These variations can be easily understood when the wide difference between the operations of the industries is considered, and the value of the plant employed taken into account. The extensive use of machinery, however, is not always the chief factor controlling the value added to materials, and the industries dealing with food, &c., and those engaged in ship-building, &c., may be cited as examples. In the former class, materials represent 77 per cent. and wages only 8 per cent. of the total value, while in the latter class, the wages amount to almost twice the value of the materials used and represent 57 per cent. of the total cost.

The most striking example of the difference between hand and machine work is, however, afforded by the clothing industries. In establishments dealing with the slop-clothing the materials represented 54 per cent. of the value of the output, and wages only 31 per cent. ; but in tailoring establishments, where the sewing is principally done by hand, the materials represented 39 per cent. and wages 37 per cent. of the value of the finished article. The general conclusion to be deduced from the figures would appear to be that the quantity of skilled labour required in the manufacture of an article is the greatest factor in adding to the value of raw material.

The following statement shows the progress of manufactories as regards value of production and wages paid in each year since 1901, except 1902, for which the information is not available :—

Year.	Value of—					Wages paid.
	Materials used.	Fuel consumed.	Goods manufactured, or work done.	Production, being value added to raw materials.	Production per head.	
	£	£	£	£	£ s. d.	£
1901	12,597,982	482,428	22,820,839	9,740,429	7 2 5	4,945,079
1903	15,121,891	*	24,721,681	9,599,790	6 15 3	4,839,557
1904	14,860,008	515,544	25,283,320	9,907,768	6 17 0	5,012,758
1905	16,662,775	556,660	27,850,158	10,630,723	7 3 9	5,191,350
1906	19,924,225	593,935	32,424,251	11,906,091	7 17 3	5,591,888
1907	23,263,766	826,498	37,571,116	13,480,852	8 13 5	6,650,715
1908	22,855,927	848,779	37,338,101	13,633,395	8 11 7	7,218,556
1909	24,783,723	922,093	40,241,578	14,535,762	8 18 11	7,665,125

* Not collected.

As stated previously, from the value of production has been excluded the value added to articles already included in the dairying industry.

The production from manufactories in 1909 represented a value of £8 18s. 11d. per head of population, an amount 5s. 6d. higher than the return for 1907, which was hitherto the highest on record.

PUBLIC FINANCE

SYSTEM OF REVENUE AND EXPENDITURE ACCOUNTS.

A COMPLETE revolution in the system of keeping the public accounts was effected in the year 1895, when an Act amending the Audit Act of 1870 received the Royal assent. It was thereby declared "that all appropriations from the Consolidated Revenue Fund shall lapse at the close of the financial year to which they refer, and from the 1st day of July, 1895, the cash receipts within the financial year shall be considered as the actual income, and the cash payments during the same period the actual outlay." This introduced what is usually termed the "cash basis," which has proved to be in the interests of economy and good government.

Prior to the adoption of this system, the expenditure for the services of a year and the actual expenditure during that year could be shown only by two different methods of accounts. When a specific appropriation was made for any service, the expenditure incurred under such authorisation would be charged against the year for which the vote was taken, irrespective of the date when the payments were made; and, therefore, the public accounts for any year could not be closed until all appropriations lapsed, or were written off or exhausted. The consequence was, that when the expenditure exceeded the income, there were frequent differences of opinion between the incoming and outgoing Treasurers as to the propriety of charging items, sometimes of large amount, to particular years, with the result that conflicting statements were made, to the confusion of the inexpert and to the detriment of the public credit.

Even under the present circumstances, an inquirer may occasionally have some trouble in comprehending the most carefully prepared statement of the finances of the State, for he must ever keep before his eyes the fact that the term "expenditure" in the official statements does not possess always the same meaning. There are refunds, advances, cross entries, cancellations, &c., to be noted, so that any presentation of the accounts is rarely complete in itself.

Under the cash system, the expenditure should be debited to the year in which the payment is made, and not to the year in which the appropriation was authorised and the adjustment effected. This method has been adopted in the subsequent statements relating to expenditure from Consolidated Revenue, and an analysis of the Treasurer's Advance Account since the 1st July, 1896, and the Expenditure Suspense Account for the years ended 30th June, 1899 to 1903, has been carried out, and the payments attached to the year in which they were actually made.

From the 1st July, 1901, to the 30th June, 1910, there was expended in the public service a sum of £122,483,340, while the actual revenue obtained was £123,302,517; the total excess of revenue during the ten years being £819,177. The actual excess of expenditure in some years, however, was considerable, as will be seen from the statement below. The figures are exclusive of advances made and repaid; but for the last

four years the statements of expenditure include transfers in aid of the Public Works Fund and Closer Settlement Fund.

Year ended 30th June.	Revenue.	Expenditure.	Excess of Revenue over Expenditure.	Excess of Expenditure over Revenue.
	£	£	£	£
1901	10,612,422	10,729,741	.....	117,319
1902	11,007,356	11,008,173	.....	817
1903	11,296,069	11,467,235	.....	171,166
1904	11,248,328	11,319,888	.....	71,560
1905	11,336,918	11,195,075	141,843	.....
1906	12,283,082	11,386,864	896,218	.....
1907	13,392,435	12,799,797	592,638	.....
1908	13,960,763	13,700,072	260,691	.....
1909	13,625,071	14,692,168	.....	1,067,097
1910	14,540,073	14,184,327	355,746	.....
	123,302,517	122,483,340	2,247,156	1,427,959
	Net Excess of Revenue ...		£819,177	

The total expenditure for the year ended 30th June, 1910, includes £575,000 transferred to the Public Works Fund, and £235,000 transferred to the Closer Settlement Fund. It is obvious that if these amounts were not included in the expenditure the excess of revenue would be increased considerably.

Anyone unacquainted with the peculiarities of State finance might find it hard to understand how it is possible for a large deficit to have accumulated, and an expenditure in excess of revenue to have been still further allowed. The explanation is simple. Through the operation of various Acts of the Legislature, and the accumulations in the Government Savings Bank, the Treasury has had at its disposal large sums in trust, and by the use of this money the accumulated deficits have been temporarily met. When in 1889 the deficit was consolidated, and Parliament authorised the issue of Treasury Bills to pay it off, these bills were not issued to the public, but, by entries in the books of the Treasury, the necessary sum was drawn from the Trust Funds in hand, and invested in the bills. This was only a formal operation, as the money had already been lent to the revenue, and the issue of the bills simply converted a floating into a fixed debt.

GENERAL BANKING ACCOUNT.

The following table indicates each of the main accounts under which the Government conducts its financial business, the subsidiary accounts being included under one or other of the headings enumerated. The Audit Act of 1902 provides that the Treasurer may agree with any Bank or Banks for the transaction of the general business of the State. The accounts are kept under four headings, viz., Consolidated Revenue Account, General Loan Account, Trust Account, and Special Deposits Account; but other accounts may be opened if necessary. All moneys paid into any of the accounts mentioned are declared to be "public moneys," and for interest purposes the several accounts are treated as one account. The Special Trust Accounts, which consist principally of "Supreme Court Moneys," are not controlled by the Audit Act, as they are operated on directly by the officials in charge of the departments interested. The

position of the main divisions of the General Account on the 30th June, 1910, will be found in the following statement:—

Head of Account.	Ledger Balances on 30th June,		
	Invested in Securities.	Cash Balances.	Total.
	£	£	£
Special Deposits Account—			
Government Savings Bank Deposits Account		1,765,292	1,765,292
State Debt Commissioners' Trust Account		97,096	97,096
State Debt Commissioners' Deposit Account		130,039	130,039
Other	32,806	516,607	549,413
Consolidated Revenue Account	1,000	988,707	989,707
General Loan Account		309,167	309,167
Colonial Treasurer's Supreme Court Moneys Accounts		201,316	201,316
Closer Settlement Account		543,998	543,998
Public Works Account		788,308	788,308
	33,806	5,340,525	5,374,331
Less Debit Balance—			
London Remittance Account	£	2,457,149	2,457,149
Total Credit Balance in Sydney.. .. .	£	2,883,376	2,917,182
Add—London Bank Account.. .. .	£	2,457,149	2,457,149
Total	£	5,340,525	5,374,331

The distribution of the cash balance on the 30th June, 1910, is set forth in the following table, the London accounts being shown to the latest date available before the closing of the Public Accounts for the financial year:—

	£	£	£
Sydney Balance—30th June, 1910—			
Special Deposits Account—Bank of New South Wales	1,847,135		
" " " Commercial Banking Company of Sydney	661,899	2,509,034	
Consolidated Revenue Account—Bank of New South Wales	178,407		
" " " Commercial Banking Company of Sydney	503,214	988,707	
" " " Cash in hands of Receiver	307,086		
General Loan Account—Bank of New South Wales	200,939		
" " Commercial Banking Company of Sydney	108,198	309,167	
Special Accounts—Bank of New South Wales	989,619		
" " Commercial Banking Company of Sydney	543,998	1,533,617	
			5,340,525
Less Debit Balances—			
London Remittance Account—Bank of New South Wales	1,872,367		
" " " Commercial Banking Company of Sydney	584,782	2,457,149	
			2,457,149
Total Cash in Sydney	£		2,883,376
Total Cash in London	£		2,457,149
Total	£		5,340,525

Prior to 1906 the Public Accounts included all the invested assets of the Government Savings Bank. Upon the passing of the Government Savings Bank Act, 1906, these assets were vested in the Commissioners appointed under that Act, and are no longer included in the statements relating to the Public Accounts. These securities amounted to £12,927,866 at the 31st December, 1909, and the figures in the last two statements would have been increased by that amount but for the new procedure.

CONSOLIDATED REVENUE FUND.

It was difficult, even for a well-equipped and patient student, to obtain more than a general idea of the state of the finances during the existence of the old system of account-keeping which came to an end in 1895. Now that the system of keeping accounts on a cash basis is properly in operation, we have, in estimating the financial position of the country, still to consider the Old Deficiency Account, the New Account under the Audit Act Amendment Act, which form the Consolidated Revenue Account, as well as the Loans Account and the various Trust Accounts not forming part of the Consolidated Revenue Account. The Old Deficiency Account proper began in 1885; but it was only in 1897, when the last obligation under the old system of account-keeping was met, that the position of this account for each year could be accurately stated. Until all obligations had been met, only an approximation could be made, the accuracy of which rested on the correctness of the Treasurer's estimate of the liabilities outstanding for previous years.

The confusion which had attended the presentation of the public accounts of the State no longer exists now that operations on the Old Deficiency Accounts have been closed. The following table shows the Accumulated Deficiency on the Consolidated Revenue Account for each of the last ten years. The Treasury Bills issued have been included in the statement, as they became part of the Consolidated Revenue Account proper:—

Financial Year.	At the close of each Year.				
	Treasury Bills Current.	Cash.		Suspense Accounts and recoup to Rail- way Loan Redemption Fund.	Accumulated Deficiency. †
		Credit.	Overdraft.		
	£	£	£	£	£
30 June, 1901... ..	1,872,447	.....	152,187	755,179	2,779,813
30 ,, 1902... ..	2,477,626	.....	236,781	.....	2,714,407
30 ,, 1903... ..	2,227,626	.....	484,356	.....	2,711,982
30 ,, 1904... ..	1,977,626	.....	524,064	.....	2,501,690
30 ,, 1905... ..	1,727,626	.....	336,891	.....	2,064,517
30 ,, 1906... ..	1,814,516	896,124	.....	.....	918,392
30 ,, 1907... ..	1,561,632	1,471,344	.....	.....	90,288
30 ,, 1908... ..	1,214,516	1,676,924	.....	.....	*462,408
30 ,, 1909... ..	914,516	637,678	.....	.....	276,838
30 ,, 1910... ..	659,337	989,707	.....	.....	*330,370

* Surplus.

† Includes cash balances not actually used in reduction.

Treasury Bills to the amount of £659,337 were current on the 30th June, 1910, and the credit balance of the Consolidated Revenue Fund was £989,707, leaving a surplus of £330,370. The liability on account

of these bills is being reduced by annual instalments of £300,000. Should this arrangement be followed, and no further issues take place in the meantime, three years must elapse before the debt will be extinguished. The immediate liquidation of the remaining liability would effect a considerable saving in interest, but the same result is practically attained, as shown later on, by the manner in which it is proposed to use surpluses.

The "Treasury Bills Deficiency Act, 1905," by which authority was given for the issue of Treasury Bills to liquidate the overdraft on the Consolidated Revenue, provides that, in the event of a surplus on the year's transactions of the Consolidated Revenue, the Treasurer shall pay to the State Debts Commissioners the sum of £50,000, with a view to extinguishing the liability of the Bills. This amount is in addition to that of £250,000 already made a charge on the revenue, for a similar purpose, by prior enactments, and makes up the amount of £300,000 per annum mentioned above.

REVENUE AND EXPENDITURE.

The gross and net revenue proper at intervals since 1880 were as follow:—

Year ended 30th June.	Gross Revenue (exclusive of Advances).	Refunds.	Net Revenue proper.	
			Total.	Per Inhabitant.
	£	£	£	£ s. d.
*1880	4,904,230	97,841	4,806,389	6 11 11
*1890	9,494,584	188,893	9,305,691	8 8 11
1900	10,203,931	230,195	9,973,736	7 8 5
1901	10,805,543	193,121	10,612,422	7 15 6
1902	11,178,214	170,858	11,007,356	7 19 7
1903	11,532,231	236,162	11,296,069	8 0 6
1904	11,453,745	205,417	11,248,328	7 17 2
1905	11,514,324	177,406	11,336,918	7 15 2
1906	12,471,473	188,391	12,283,082	8 4 2
1907	13,570,380	177,945	13,392,435	8 14 11
1908	14,195,357	234,594	13,960,763	8 17 6
1909	13,844,642	219,571	13,625,071	8 9 9
1910	14,689,973	149,900	14,540,073	8 16 9

* Twelve months ended 31st December.

Under the provisions of the Commonwealth of Australia Constitution Act, the control of Customs and Excise and the administration of the Post and Telegraph and Defence Departments were transferred to the Federal Government, the first named on the 1st January, 1901, and the others on the 1st March, 1901. The Patents Office was transferred on the 1st June, 1904. The revenue derived from those sources, since the transfer, has been included only to the extent of the balance paid over to the State after deducting the expenditure incurred in connection with transferred services, and the proportion of other or new expenditure for which the State was liable.

The figures relating to revenue, both above and in subsequent tables, are exclusive of "Advances repaid"; and in dealing with expenditure, "Advances made" have been excluded from consideration, as transactions

under these heads do not affect the ordinary revenue and the expenditure therefrom. The terms "net revenue" and "net expenditure," used both here and in subsequent pages, are to be taken as meaning revenue and expenditure freed from the transactions just mentioned as well as from refunds.

The net expenditure for years corresponding with those in the revenue statement is given in the subjoined table, it being assumed that the accounts are on a cash basis—that is, that each year's business is complete within that year. The term used in the table, "Expenditure from revenue of current year," must not be taken in a literal sense, as in only five years during the last decade has the revenue sufficed for the expenditure. This will be seen by comparing the annual expenditure given below with the revenue for the corresponding years shown in the preceding table:—

Year ended 30th June.	Net Expenditure, exclusive of Advances.			Per Inhabitant.		
	From Revenue of current year.	From Accumulated Surplus.	Total.	From Revenue of current year.	From Accumulated Surplus.	Total.
	£	£	£	£ s. d.	£ s. d.	£ s. d.
*1880	5,129,028	331,287	5,460,315	7 0 9	0 9 1	7 9 10
*1890	9,385,669	3,677	9,389,346	8 10 3	0 0 1	8 10 4
1900	10,086,186	.....	10,086,186	7 10 1	.....	7 10 1
1901	10,729,741	.....	10,729,741	7 17 3	.....	7 17 3
1902	11,008,173	.....	11,008,173	7 19 7	.....	7 19 7
1903	11,467,235	.....	11,467,235	8 2 11	.....	8 2 11
1904	11,319,888	.....	11,319,888	7 18 2	.....	7 18 2
1905	11,195,075	.....	11,195,075	7 13 2	.....	7 13 2
1906	11,386,864	.....	11,386,864	7 12 3	.....	7 12 3
1907	12,799,797	.....	12,799,797	8 7 3	.....	8 7 3
1908	13,700,072	.....	13,700,072	8 14 2	.....	8 14 2
1909	14,692,168	.....	14,692,168	9 3 1	.....	9 3 1
1910	14,184,327	.....	14,184,327	8 12 5	.....	8 12 5

* Twelve months ended 31st December.

The apparently large increase in expenditure during the last four years is due to the transfers from the Consolidated Revenue Fund of large sums to the Public Works Fund and the Closer Settlement Fund which have been in operation during those years only. Excluding these transfers the expenditure per inhabitant was £7 15s. 4d. in 1907, £7 13s. 9d. in 1908, and £8 0s. 6d. in 1909. In the year ended 30th June, 1910, the transfers increased the expenditure per inhabitant by 13s. 11d. As the moneys so transferred are applied to public works previously charged to the General Loan Account, the practice means that smaller loans will be required, and the State will escape the interest and flotation charges. The advantages of the new system are obvious, and will be especially apparent when the current liability on Treasury Bills shall have been liquidated.

With a view of obtaining a proper conception of the sources from which the revenue is derived, and the objects upon which expenditure is made, the subjoined table has been prepared, covering the last triennial period. In the table a separation has been effected between receipts and expendi-

ture for purely Government purposes and for the business undertakings of the State. The figures are exclusive of advances made and repaid:—

REVENUE AND RECEIPTS.		1907-8.	1908-9.	1909-10.
		£	£	£
<i>Governmental.</i>				
Surplus Revenue returned by Commonwealth		3,591,371	3,356,158	3,347,616
Taxation—				
Stamp Duties		565,242	506,703	872,922
Land Tax		178,889	80,794	9,066
Income Tax		215,283	202,369	219,977
Licenses		118,120	117,383	121,556
Total	£	1,077,534	907,249	1,223,521
Land Revenue—				
Alienation		995,069	908,532	944,162
Occupation		619,428	628,333	640,038
Miscellaneous		169,899	151,137	145,540
Total	£	1,784,394	1,778,002	1,729,740
Services rendered (other than Business Undertakings)		305,674	310,882	313,381
General Miscellaneous		348,475	274,600	358,550
Total Governmental	£	7,107,448	6,626,891	6,972,808
<i>Business Undertakings of the State.</i>				
Receipts, Corporate Bodies—				
Railways and Tramways		5,978,060	6,132,918	6,664,236
Sydney Harbour Trust		327,579	334,694	337,454
Metropolitan Board of Water Supply and Sewerage		504,092	486,393	512,615
Hunter District Water Supply and Sewerage		43,584	44,175	52,960
Total Business Undertakings	£	6,853,315	6,998,180	7,567,265
Grand Total	£	13,960,763	13,625,071	14,540,073
EXPENDITURE.				
<i>Governmental.</i>				
Interest on Public Debt and on Trust Funds (excluding proportion chargeable to the four corporate bodies)		730,043	755,058	807,929
Old-age and Invalidity Pensions and Administration		533,131	627,213	140,228
Other Pensions, Retiring Allowances, &c.		205,599	189,442	191,896
Parliamentary Electorates and Elections Act, including Electoral Office		40,966	4,648	*16,133
Parliamentary Allowances and Postage		26,295	31,236	31,337
Local Government—				
Endowments, &c., to Municipalities		17,242	7,637	7,763
Endowments, &c., to Shires		169,865	198,136	274,052
Agricultural, Pastoral, and Horticultural Societies		19,627	18,096	19,611
Hospitals and Charities (including expenditure on account of bubonic plague)		330,114	343,961	353,331
Lunacy, including Master-in-Lunacy		144,523	156,559	164,990
Public Instruction, including Reformatories and Grants to Educational and Scientific Institutions		1,088,620	1,088,328	1,145,038
All other Services of the State		2,360,549	2,477,120	2,510,223
Total Governmental	£	5,621,574	5,897,434	5,662,581
Sinking Funds Instalments—Total		406,145	478,791	421,034
Public Works Fund—Transfers in Aid		1,404,479	809,561	911,177
Closer Settlement Fund—Transfers in Aid		200,000	1,000,000	235,000
<i>Business Undertakings of the State.</i>				
Working Expenses—				
Railways and Tramways		3,503,905	3,372,865	4,292,070
Sydney Harbour Trust		90,336	104,208	108,192
Metropolitan Board of Water Supply and Sewerage		139,896	152,346	162,268
Hunter District Board of Water Supply and Sewerage		14,721	15,464	17,902
Total		3,749,358	4,145,383	4,580,432
Interest on Capital—				
Railways and Tramways		1,781,153	1,825,936	1,839,584
Sydney Harbour Trust		187,907	179,119	178,020
Metropolitan Board of Water Supply and Sewerage		331,173	336,380	336,364
Hunter District Board of Water Supply and Sewerage		18,284	19,064	20,135
Total		2,318,516	2,360,999	2,374,103
Total Business Undertakings	£	6,067,874	6,506,382	6,954,535
Grand Total	£	13,700,072	14,692,168	14,184,327

* In 1909-10 the Electoral Office included in other services of the State.

SOURCES OF REVENUE.

The Revenue is classified under four heads—Taxation, Land Revenue, Receipts for Services Rendered, and General Miscellaneous Receipts. The net revenue derived under each of these four heads and the equivalent per inhabitant during the last ten years are shown below :—

Year ended 30th June.	Taxation.		Land Revenue.		Receipts for Services rendered.		General Miscellaneous Receipts.	
	Total.	Per Inhabitant.	Total.	Per Inhabitant.	Total.	Per Inhabitant.	Total.	Per Inhabitant.
	£	£ s. d.	£	£ s. d.	£	£ s. d.	£	£ s. d.
1901	1,980,885	1 9 0	2,066,545	1 10 3	5,316,832	3 17 11	1,248,160	0 18 4
1902	1,108,770	0 16 1	2,041,574	1 9 0	5,025,065	3 12 10	2,571,946	2 1 8
1903	1,108,781	0 15 9	1,895,227	1 5 8	4,807,611	3 8 4	3,574,420	2 10 9
1904	1,100,193	0 15 5	1,860,570	1 6 0	5,012,401	3 10 0	3,275,164	2 5 9
1905	1,114,408	0 15 3	1,761,027	1 4 1	5,355,418	3 13 4	3,106,065	2 2 6
1906	1,297,776	0 17 4	1,733,074	1 3 2	5,954,668	3 19 7	3,297,564	2 4 1
1907	1,381,305	0 18 0	1,884,056	1 4 8	6,463,940	4 4 4	3,683,134	2 7 11
1908	1,077,534	0 13 8	1,784,394	1 2 8	6,831,410	4 6 11	4,267,425	2 14 3
1909	907,249	0 11 4	1,778,002	1 2 2	6,974,368	4 6 10	3,865,452	2 9 5
1910	1,223,521	0 14 10	1,729,740	1 1 0	7,545,192	4 11 9	4,043,620	2 9 2

In considering the foregoing figures it must be borne in mind that the revenue from Posts and Telegraphs is included to the 28th February, 1901, and from Patents to the 31st May, 1904, only, when these services were taken over by the Commonwealth Government. For the purpose of comparison with previous years, the receipts from Railways and Tramways and the Metropolitan and Hunter District Water Supply and Sewerage Boards are included under the heading "Services rendered," and those from the Sydney Harbour Trust under "General Miscellaneous Receipts." The general miscellaneous receipts, however, include the balance of revenue collected within New South Wales by the Commonwealth Government and returned to the State.

TAXATION.

License Fees, Land and Income Taxes, and Stamp Duties represent the various forms of taxation in force in the State. In the subjoined statement the revenue derived from each source during the period 1908-1910 is shown :—

Head of Revenue.	1907-8.	1908-9.	1909-10.
<i>Indirect Taxation—</i>			
Licenses :—			
To retail fermented and spirituous liquors ...	£ 86,566	£ 85,417	£ 85,494
Other	32,195	32,392	36,621
Total, Licenses	118,761	117,809	122,115
<i>Direct Taxation—</i>			
Income Tax	223,856	209,237	226,928
Land Tax	184,208	82,660	9,865
Total, Land and Income Tax	408,064	291,897	236,793
Stamp Duties :—			
Impressed and adhesive stamps	222,285	157,081	174,846
Probate, administration, and settlement duty ...	310,704	301,681	650,202
Other	73,545	51,205	51,138
Total, Stamp Duties	606,534	509,967	876,186
Gross Revenue from Taxation	1,133,359	919,673	1,235,094
Refunds	55,825	12,424	11,573
Net Revenue from Taxation	1,077,534	907,249	1,223,521

The control of Customs and Excise having passed to the Commonwealth Government on the 1st January, 1901, the foregoing statement does not include any figures relating to the taxation thereunder. In a publication of this character, however, it is desirable that the actual amount to which

the people of the State are subjected by way of taxation, whether direct or indirect, should be clearly set forth. In the following statement is shown in detail the net revenue derivable from each source of taxation for the decennial period ended 30th June, 1910, after deducting refunds, but not allowing for cost of collection :—

Year ended 30th June.	Indirect Taxation.			Direct Taxation.			Total Taxation.
	Customs.	Excise.	Licenses.	Income Tax.	Land Tax.	Stamp Duties.	
	£	£	£	£	£	£	£
1901	1,574,592	383,752	123,527	205,304	288,369	424,349	2,999,893
1902	2,324,000	488,732	124,438	190,315	301,881	492,036	3,921,502
1903	2,861,710	617,032	122,409	199,159	314,104	473,109	4,587,523
1904	2,604,048	625,738	122,137	193,240	322,246	462,570	4,329,979
1905	2,390,735	642,882	122,606	195,252	323,267	473,283	4,148,025
1906	2,563,552	670,370	121,387	266,233	329,998	580,158	4,531,698
1907	2,845,786	727,527	118,819	283,422	345,497	633,567	4,954,618
1908	3,672,072	842,590	118,120	215,283	178,889	565,242	5,592,196
1909	3,465,922	797,756	117,383	202,369	80,794	506,703	5,170,927
1910	3,789,467	706,035	121,556	219,977	9,066	872,922	5,719,023

A marked increase in the aggregate amount of taxation is disclosed in the foregoing table, ranging as it does from £2,999,893 in the opening year of the period to £5,719,023 in the closing year. The imposition of uniform customs and excise duties by the Commonwealth Parliament from the 9th October, 1901, largely contributed to this increase, and in the three last years there was a further increase in Customs collections, due to the introduction of an amended tariff, as from 8th August, 1907, by which duties in most instances were increased largely, as compared with the tariff of 1901.

There was a noticeable decrease, however, in the revenue derived from Income, Land, and Stamp Duty Taxation since 1907. This was due to amending legislation under Acts Nos. 7 and 8 of 1907, so far as Income Tax and Stamp Duties are concerned, whereby, from the 1st January, 1908, any income won by personal exertion, up to £1,000 a year, is exempt from direct taxation. Stamp duties on bills of exchange, promissory notes, drafts, and receipts have been repealed. The decline in revenue from land tax is attributable to the operation of the Taxation Amending Acts of 1905 and 1906, and the Sydney Corporation (Amendment) Act of 1908, which provide for the allotment to Shires and Municipalities of land taxation collected within their area. These Taxation Amending Acts are a necessary corollary to the Local Government Extension Act of 1906.

The figures would be incomplete without corresponding information respecting the taxation per head of population, which is set forth hereunder :—

Year ended 30th June.	Indirect Taxation.			Direct Taxation.			Total Taxation.
	Customs.	Excise.	Other.	Income Tax.	Land Tax.	Stamp Duties.	
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1901	1 3 1	0 5 8	0 1 10	0 3 0	0 4 3	0 6 2	2 4 0
1902	1 13 8	0 7 1	0 1 10	0 2 9	0 4 4	0 7 2	2 16 10
1903	2 0 8	0 8 9	0 1 9	0 2 10	0 4 5	0 6 9	3 5 2
1904	1 16 4	0 8 9	0 1 9	0 2 8	0 4 6	0 6 6	3 0 6
1905	1 12 10	0 8 10	0 1 8	0 2 8	0 4 5	0 6 6	2 16 11
1906	1 14 4	0 9 0	0 1 7	0 3 7	0 4 5	0 7 9	3 0 8
1907	1 17 2	0 9 6	0 1 7	0 3 8	0 4 6	0 8 3	3 4 8
1908	2 6 8	0 10 8	0 1 6	0 2 9	0 2 3	0 7 2	3 11 0
1909	2 3 2	0 9 11	0 1 6	0 2 6	0 1 0	0 6 4	3 4 5
1910	2 6 1	0 8 7	0 1 6	0 2 8	0 0 1	0 10 7	3 9 6

The receipts from licenses show very little fluctuation from year to year, although those from licenses to retail fermented and spirituous liquors, &c., have declined during the last four years, the result, apparently, of the recent liquor legislation. The amount received during the year ended 30th June, 1910, under the different heads, was as follows:—

Licenses.	Amount.	Licenses.	Amount.
	£		£
Wholesale spirit dealers	5,640	Sale of tobacco and cigars ...	3,418
To retail fermented and spirituous liquors, Colonial wine, cider, and perry	85,494	Metropolitan Traffic Act ...	2,957
Billiard and bagatelle	7,663	Gaming and Betting Act, 1906...	1,104
Auctioneers	6,411	Other	5,027
Hawkers, pedlars, and pawabrokers	3,243		122,115
Explosives Act of 1905	1,158	Refunds	559
		Total net Receipts ...£	121,556

The receipts from licenses by the Mines Department, and from those issued under the Fisheries Department, are not included in the table.

LAND AND INCOME TAXATION.

The land tax of the State is levied on the unimproved value at the rate of 1d. in the £. A sum of £240 is allowed by way of exemption, and where the unimproved value is in excess of that sum a reduction equal to the exemption is made; but where several blocks of land within the State are held by a person or company, only one amount of £240 may be deducted from the aggregate unimproved value. In cases where land is mortgaged, the mortgagor is permitted to deduct from the tax payable a sum equal to the income-tax paid by the mortgagee on the interest derived from the mortgage of the whole property, including improvements. The lands exempt from taxation comprise Crown lands not subject to the right of purchase, or held under special or conditional lease, or as home-stead selections; other lands vested in His Majesty, or His representative; lands vested in the Railway Commissioners; lands belonging to or vested in local authorities; public roads, reserves, parks, cemeteries, and commons; lands occupied as public pounds, or used exclusively for or in connection with public hospitals, benevolent institutions, and other public charities, churches and chapels, the University and its affiliated colleges, the Sydney Grammar School, and mechanics' institutes and schools of art; and lands dedicated to and vested in trustees and used for zoological, agricultural, pastoral, or horticultural show purposes, or for other public or scientific purposes.

Under the Local Government Act, 1906, when the Council of a shire or municipality makes and levies a general rate, not less than 1d. in the £ on the unimproved value of land within its area, land tax ceases to be collected by the State therein. A similar provision now extends to the City of Sydney under the operation of the "Sydney Corporation (Amendment) Act, 1908."

An income-tax of 6d. in the £ is imposed upon so much of every income as may be in excess of £1,000, if the income is derived by personal exertion, otherwise the exemption is only £200. Incomes are altogether exempt which are derived from the ownership or use or cultivation of land upon which land tax is payable. The exemptions include the revenues of local authorities, the income of life assurance societies, and of other societies and companies not carrying on business for purposes of profit or gain, and not being income derived from mortgages; the dividends and profits of the Savings Bank of New South Wales and the

Government Savings Bank; the funds and income of registered friendly societies and trades unions; the incomes and revenues of all ecclesiastical, charitable, and educational institutions of a public character; and income accruing to foreign investors from Government Stock. The regulations provide that, in the case of every company, its income shall be taken as the income of the company in New South Wales and from investments in the State. Public companies are not allowed the exemption of £200.

The variations in regard to the number and amount of incomes liable to taxation are shown in the following table, which relates to the last twelve years. The first year for which the information is available is 1899:—

Year.	Number of Incomes.	Net Income.	Year.	Number of Incomes.	Net Income.
		£			£
1899	19,775	11,123,343	1905	22,814	13,769,828
1900	20,051	12,140,569	1906	23,832	14,937,906
1901	19,991	12,065,842	1907	24,091	16,410,484
1902	20,299	12,127,129	1908	5,591	14,014,275
1903	22,234	13,415,760	1909	5,409	12,422,857
1904	22,299	12,482,094	1910	5,717	11,753,185

The number of incomes taxed in the last three years is very much reduced, for the reason given above, and the figures quoted for these years in the statement are exclusive of incomes from personal exertion under £1,000.

A distribution of the incomes subject to taxation according to the amounts taxable is set forth in the following statement. The particulars are based on the experience of the nine years ended 30th June, 1907, the subsequent years being excluded, as the source of taxation was restricted considerably. These, however, represent only a portion of the incomes derived from New South Wales, as incomes derived from land, or the use and occupancy of land, are not taxable. The net earnings are given in the table:—

Categories.	Average of Nine Years.		Proportion in each category.	
	Number of Incomes.	Amount of Incomes.	Of Number of Incomes.	Of Amount of Incomes.
		£	per cent.	per cent.
£200 and under	£250...	6,371	29·60	11·00
250 "	300...	4,074	18·93	8·54
300 "	400...	4,140	19·23	10·90
400 "	500...	2,028	9·42	6·96
500 "	700...	1,949	9·06	8·67
700 "	1,000...	1,200	5·57	7·58
1,000 "	1,200...	392	1·82	3·29
1,200 "	2,000...	703	3·29	8·23
2,000 "	5,000...	462	2·15	10·43
5,000 "	10,000...	122	0·57	6·31
10,000 "	20,000...	47	0·22	4·95
20,000 and upwards	...	31	0·14	13·14
Total	...	21,524	100·00	100·00

The revenue from land and income taxes since 1896, the year in which they were first imposed, is shown hereunder. The amounts exclude refunds rendered necessary through correction of errors by the taxpayer or adjustments by the Department, but include refunds brought about through the income of the year of assessment falling short of the amount of income of the preceding year on which the assessment was made; a

provision which was repealed by the "Land and Income Tax Amendment Act, 1904":—

Year.	Land Tax.	Income Tax.	Year.	Land Tax.	Income Tax.
	£	£		£	£
1896	.....	27,658	1904	322,246	211,831
1897	139,079	295,537	1905	323,267	195,252
1898	364,131	166,395	1906	329,998	266,233
1899	253,901	178,032	1907	345,497	283,422
1900	286,227	183,460	1908	178,889	215,283
1901	288,369	215,893	1909	80,794	202,369
1902	301,981	203,625	1910	9,066	219,977
1903	314,104	214,686			

The fluctuations shown in the first three years are due to the difficulties inseparable from the introduction of a system of direct taxation; the returns for 1899 and subsequent years, however, are under normal conditions, which have been varied recently, as already shown, by the increased exemption for the majority of taxpayers, in the case of the income tax, and by the transfer to shires and municipalities of the land tax.

The Federal Government have levied a graduated tax on the unimproved value of the lands of the Commonwealth, as from the 1st July, 1910. In the case of owners who are not absentees, an amount of £5,000 is exempt, and the rate of tax ranges from 1d. for £1 of value in excess of that amount, and increases uniformly with every £1 of value to 6d. in the £ on estates having a taxable value of £75,000 and over. Absentee owners are required to pay 1d. in the £ up to £5,000, ranging to a maximum of 7d. on estates valued at £80,000 and upwards. Lands owned by a state, municipality, or other public authority, by savings banks, friendly societies, or used solely for religious, charitable, or educational purposes, &c., are not taxable.

LAND REVENUE.

The receipts from the sale and occupation of Crown land are treated as public income. While the proceeds from occupation, being rent, can be reasonably regarded as an item of revenue, the inclusion of the proceeds of auction, conditional purchase, and other classes of sale in the ordinary revenue is open to serious objection. It has been urged in justification of the course that the sums so obtained have enabled the Government either to construct works, which enhance the value of the remaining public lands and facilitate settlement, or to endow municipalities, and thus enable them to carry out local works. Under the Act passed in 1906, instituting the Public Works Fund previously mentioned, two-thirds of the net proceeds of the sale of Crown Lands, less 20 per cent., equivalent to a clear 53½ per cent., are paid to that fund.

The revenue derived from lands may be grouped under three main heads—(a) auction sales and other forms of unconditional sale; (b) conditional sales or lands disposed of under the system of deferred payments; (c) rents from pastoral, mining, and other classes of occupation. The first two sources have been amalgamated under the head of Alienation; while the last is classed as Occupation.

More than half the annual receipts from land are obtained from alienation, as will be seen from the following table, which gives in detail the revenue from 1908 to 1910, but as about 40 per cent. of the amounts shown as instalments and interest represents interest on the balance of

conditional purchases outstanding, to that extent the receipts from sales may be legitimately viewed as income:—

Head of Revenue.	1907-8.	1908-9.	1909-10.
<i>Alienation—</i>			
Sales, etc. :—	£	£	£
Auction sales	90,986	79,576	77,055
Other	10,048	13,077	11,263
Total	101,034	92,653	88,318
Conditional Purchases :—			
Deposits and improvements...	78,866	93,060	64,236
Instalments and interest	579,161	551,141	538,175
Interest (under Act of 1861)	25,756	25,194	22,200
Balances	156,531	183,861	174,495
Homestead Selections	75,179	72,856	71,624
Total	915,493	926,112	870,730
Total, Alienation... .. .	1,016,527	1,018,765	959,048
<i>Occupation—</i>			
Pastoral :—			
Pastoral leases	2,779	829	756
Conditional leases	206,016	207,918	204,965
Occupation licenses	40,484	35,080	31,533
Homestead leases	4,498	2,226	1,555
Annual leases	48,477	42,982	38,152
Settlement leases	103,120	109,076	115,561
Improvement leases	49,018	51,997	50,712
Western Land Division leases	65,521	74,758	79,517
Other leases	29,332	37,122	49,644
Total	549,245	561,988	572,395
Mining :—			
Mineral leases	19,142	17,347	20,706
Leases of auriferous lands	2,174	1,680	2,310
Miners' rights... .. .	3,636	3,259	3,184
Royalty on minerals	69,912	66,542	59,373
Other	12,004	9,495	10,689
Total	106,868	98,323	96,262
Total, Occupation	656,113	660,311	668,657
<i>Miscellaneous Land Receipts—</i>			
Survey fees	50,456	45,177	28,883
Rents, special objects	33,428	36,265	40,485
Timber licenses, royalty, etc.	54,205	55,041	60,508
Quit rents and other receipts	49,979	37,432	35,009
Total	188,068	173,915	164,885
Gross Revenue from Lands	1,860,708	1,852,991	1,792,590
Refunds	76,314	74,989	62,850
Net Revenue from Lands	1,784,394	1,778,002	1,729,740

The revenue from land sales has declined year by year, both absolutely and as compared with population. The revenue from this source is now some £1,495,500 less than was the case in 1881. In regard to occupation, a different condition of things is disclosed; the gross receipts in 1909-10 were £804,659, or an increase of £467,009 as compared with 1881.

The gross revenue derived from alienation and occupation, and the gross and net land revenue, from 1901 to 1910, were as follows :—

Year ended 30th June.	Alienation.		Occupation.		Gross Revenue from Lands.	Refunds.	Net Revenue from Lands.
	Sales, etc.	Conditional Purchases. *	Pastoral. †	Mining, etc. ‡			
	£	£	£	£	£	£	£
1901	135,046	1,234,172	679,315	74,830	2,123,363	56,818	2,066,545
1902	120,202	1,173,090	694,099	70,286	2,057,677	56,103	2,001,574
1903	119,770	1,008,998	658,696	83,227	1,870,691	65,464	1,805,227
1904	117,518	1,058,345	661,904	98,194	1,935,961	75,391	1,860,570
1905	102,316	1,005,839	636,057	101,255	1,845,467	84,440	1,761,027
1906	95,582	1,049,796	546,904	128,318	1,820,600	87,526	1,733,074
1907	104,780	1,098,716	600,885	154,990	1,959,371	75,315	1,884,056
1908	101,034	965,949	632,652	161,073	1,860,708	76,314	1,784,394
1909	92,653	971,289	635,685	153,364	1,852,991	74,989	1,778,002
1910	88,318	899,613	647,889	156,770	1,792,590	62,850	1,729,740

* Includes Survey Fees. † Includes all Miscellaneous Receipts except Survey Fees and Timber Licenses.
‡ Includes Timber Licenses.

The land policy of the State, though largely connected with public finance, has been more fully discussed in the part of this work dealing with land settlement.

The reappraisal of the leases in the Western Division, under the provisions of the Western Lands Act of 1901 caused a considerable shrinkage in revenue. Radical reductions were necessary to prevent the abandonment of enormous tracts of country, which would thereby become worse than non-productive, inasmuch as they would form breeding-grounds for rabbits and other noxious animals. The loss of revenue, however, will be counterbalanced by the benefit resulting from the occupation of this large territory, under conditions which will encourage enterprise and the expenditure of capital in the proper development of the country, and in effectually coping with the rabbit scourge.

As a result of the reappraisal of conditional purchases and conditional leases, made under the Crown Lands (Amendment) Act of 1899, the revenue from these lands also has been considerably reduced.

RECEIPTS FOR SERVICES RENDERED.

The receipts from the Railways and Tramways and from Water Supply and Sewerage comprise the greater part of the revenue received from services, the balance under this heading being made up chiefly of dues and fees of various kinds.

After making provision for working expenses and interest on loan capital, the Railways and Tramways, during the financial year just closed, produced a surplus of £532,582, while the operations of the Metropolitan Board of Water Supply and Sewerage and the Hunter District Water Supply and Sewerage Board showed a surplus of £13,982 and £14,924

respectively. The gross receipts under each head during the period 1908-10 were as follow:—

Service.	1907-8.	1908-9.	1909-10.
	£	£	£
Railways	5,044,791	5,154,197	5,527,375
Tramways	1,020,727	1,102,517	1,192,060
Water Supply and Sewerage—			
Metropolitan—Water Supply	287,442	272,005	289,813
Sewerage	217,151	214,931	223,402
Hunter District Water Supply	45,363	44,279	52,987
Public school fees	4,716	6,875	6,927
Pilotage, harbour and light rates, and fees	106,297	91,395	86,413
Mint receipts	10,261	11,369	10,999
Miscellaneous services	186,704	203,153	211,198
Gross revenue from Services	6,923,452	7,100,721	7,601,174
Refunds	92,042	126,353	57,982
Net revenue from Services	6,831,410	6,974,368	7,543,192

The gross revenue derived annually from each of the principal services, and the net revenue from all sources during the last ten years were as shown in the following statement:—

Year ended 30th June.	Railways and Tramways.	Posts and Telegraphs.	Water Supply and Sewerage (Metropolitan and Hunter).	Other Services.	Total Revenue from Services.		
					Gross.	Refunds.	Net.
	£	£	£	£	£	£	£
1901	4,158,016	580,539	355,441	306,747	5,400,743	83,911	5,316,832
1902	4,390,951	.....	377,019	324,661	5,092,631	67,565	5,025,066
1903	4,197,789	.....	409,019	320,008	4,926,816	119,175	4,807,641
1904	4,522,162	.....	418,087	331,742	5,071,991	59,590	5,012,401
1905	4,556,541	.....	513,940	320,712	5,391,193	35,775	5,355,418
1906	5,114,497	.....	532,812	371,359	6,018,668	64,000	5,954,668
1907	5,640,526	.....	539,742	333,660	6,513,928	49,988	6,463,940
1908	6,065,518	.....	549,956	307,978	6,923,452	92,042	6,831,410
1909	6,256,714	.....	531,215	312,792	7,100,721	126,353	6,974,368
1910	6,719,435	.....	566,202	315,537	7,601,174	57,982	7,543,192

The net revenue just given should be read with the rates per inhabitant for the same years, which will be found on a previous page. The revenue of the Sydney Harbour Trust is not included in the above table but under "General Miscellaneous Receipts." The income derived by the Government from services has, with little interruption, been steadily increasing; this, however, is only what would naturally be expected in a growing community. Notwithstanding the transfer of the Post Office and Telegraph Department to Federal control on the 1st March, 1901, the rate per head in 1909-10 was £4 11s. 9d., as compared with £3 14s. 4d. in 1899-1900. The increase in the return from services is undoubtedly largely due to the construction of railways and tramways, from which 89 per cent. of such revenue was derived during 1909-10. Compared with the population, the income derived from the services of the State is enormous.

With the exception of 141½ miles of private railways, 6¾ miles of private tramways, and a number of short lines, in extent 135½ miles, in mining districts connecting the mines with the main lines, all railways and tramways within the State belong to, and are controlled by, the Government.

The collections under the head of Water Supply and Sewerage include the returns of the Boards operating in the metropolitan area and in the Hunter River district. These Boards form part of the local government scheme, and it is an open question whether the receipts and expenditure connected with them should be included in the general account. The loans from which the works have been constructed, however, form part of the public debt; and the interest payable is, therefore, rightly included as an item of the general accounts.

The balance of the revenue collected under the head of services consists of fees of office, pilotage and harbour dues, and other minor items. The revenue derived from these services, however, is merely nominal, as the cost of the work performed in nearly every case far exceeds the receipts. The gross amount received under each head during the year ended 30th June, 1910, was:—

Fees of office	£ 116,372
Public school and training fees	6,927
Pilotage and harbour dues	86,413
Other fees	105,825
Total	£315,537

Up to the 30th June, 1906, public school fees amounted annually to about £80,000. Since October, 1906, fees in primary and superior public schools have been abolished under the "Free Education Act, 1906," and from that date the revenue consists of the fees from High Schools and from the Training College, and is inconsiderable in amount.

GENERAL MISCELLANEOUS RECEIPTS.

All items which cannot be placed rightly under one of the three great classes (Taxation, Land Revenue, and Services) are grouped under the heading of "General Miscellaneous Receipts," which consist of "Rents, exclusive of land," "Forfeitures," "Balances, Transfers, and Repayments," and similar accounts. The figures include also collections in connection with the Sydney Harbour Trust and the Darling Harbour resumptions, as well as balances of revenue collected by the Commonwealth and returned to the State. The gross amount received under each of the main sub-heads, and the gross and net revenue received under the general head since 1901 are shown in the following statement:—

Year ended 30th June.	Rents, exclusive of Land.	Balances, Transfers, and Repayments.	Revenue collected by the Commonwealth and returned to the State.	Other Miscellaneous Receipts.	Revenue from Miscellaneous Receipts.		
					Gross.	Refunds.	Net.
	£	£	£	£	£	£	£
1901	227,774	57,625	883,273	99,279	1,267,951	19,791	1,248,160
1902	303,732	58,053	2,385,905	131,273	2,878,963	7,017	2,871,946
1903	344,456	51,655	3,053,133	140,248	3,589,492	15,072	3,574,420
1904	345,610	112,610	2,683,417	158,104	3,299,741	24,577	3,275,164
1905	339,219	97,583	2,529,070	146,544	3,112,416	6,351	3,106,065
1906	344,445	99,534	2,742,770	120,563	3,307,312	9,748	3,297,564
1907	365,460	26,364	3,022,351	269,390	3,683,565	20,431	3,663,134
1908	390,158	41,305	3,591,371	255,004	4,277,838	10,413	4,267,425
1909	397,510	45,363	3,356,158	172,226	3,971,257	5,805	3,965,452
1910	400,082	38,394	3,347,616	275,023	4,061,115	17,495	4,043,620

Since 1901 the collections in connection with the Sydney Harbour Trust and the Darling Harbour resumptions have been included under the heading of "Rents exclusive of Land."

HEADS OF EXPENDITURE.

The following table gives the net expenditure under the more important heads since 1901. The amounts given are exclusive of transactions under "Advances made," which, as mentioned previously, are not items of expenditure in the proper sense of the term:—

Year ended 30th June.	Net Expenditure on—						Total Net Expenditure.
	Railways and Tramways.	Post and Telegraphs	Water Supply and Sewerage (Metropolitan and Hunter).	Public Instruction.	Interest on Public Debt (Funded and Unfunded).	Other Services.	
	£	£	£	£	£	£	£
1901	2,474,376	527,254	98,921	785,279	2,346,852	4,497,059	10,729,741
1902	2,806,161	.....	115,193	856,622	2,498,750	4,731,447	11,008,173
1903	2,948,554	.....	126,432	899,918	2,619,766	4,872,565	11,467,235
1904	2,921,026	.....	121,570	905,975	2,745,348	4,625,969	11,319,888
1905	2,917,702	.....	136,279	912,832	2,856,872	4,371,390	11,195,075
1906	2,972,473	.....	132,039	928,884	2,941,059	4,412,409	11,386,864
1907	3,221,145	.....	140,335	946,044	3,136,733	5,355,540	12,799,797
1908	3,503,905	.....	154,617	1,038,620	3,048,559	5,954,371	13,700,072
1909	3,872,865	.....	168,310	1,088,328	3,116,057	6,446,608	14,692,168
1910	4,292,070	.....	180,170	1,145,038	3,182,032	5,385,017	14,184,327

The annual expenditure for the services named has increased on the whole; the revenue has likewise grown, but not in a corresponding ratio. To establish the relative position of each service, it will be necessary to place the accounts side by side, together with the per capita presentment. This is shown in the next table. The figures given for the public debt apply only to interest expenditure; the amount paid for redemptions, which in point of volume is unimportant, and the expenditure incurred in the management and inscription of stock in London are included under the head of "Other Services."

EXPENSES OF GENERAL GOVERNMENT.

In the figures already given regarding the revenue of the State, the amount received on account of the business undertakings of the State—that is, the earnings of the railways, the tramways, the boards of water supply and sewerage, and the Sydney Harbour Trust—are included in the general revenue. This is almost a matter of necessity so long as the expenditure includes interest on the public debt incurred to promote these services. In consequence of this system the annual cost of maintaining the services referred to is also included in the expenditure. The figures given in the table above do not admit of a ready distinction between these two kinds of expenditure; but as the information is necessary for the explication of the public accounts, the following statement has been compiled. It shows the progress of expenditure as classified under two headings—ordinary expenditure of general government, including interest on capital liability of services connected therewith; and expenditure on services practically outside the administration of general government, such as railways, tramways, water supply and sewerage, and the Sydney Harbour Trust, and the interest on capital liability of the services

enumerated. The figures for the five years ended 30th June, 1910, and the rates per inhabitant, are as follow:—

Year ended 30th June	Total Net Expenditure.							
	Governmental.				Business Undertakings.			
	Public Instruction.	Interest on Public Debt.	Other Services.	Total.	Railways and Tramways.	Water Supply and Sewerage.	Sydney Harbour Trust.	Total.
	£	£	£	£	£	£	£	£
1906	938,640	938,398	4,188,350	6,065,388	4,616,305	443,916	261,255	5,321,476
1907	946,044	907,026	5,272,776	7,125,846	4,933,523	471,133	264,295	5,673,951
1908	1,038,620	730,043	5,863,535	7,632,198	5,285,058	504,073	278,743	6,067,874
1909	1,088,328	755,058	6,342,400	8,185,786	5,698,801	524,254	283,327	6,506,382
1910	1,145,038	807,929	5,276,825	7,229,792	6,131,654	536,669	256,212	6,954,535

Net Expenditure per Inhabitant.

	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1906	0 12 6	0 12 7	2 16 0	4 1 1	3 1 9	0 5 11	0 3 6	3 11 2
1907	0 12 4	0 11 10	3 8 11	4 13 1	3 4 6	0 6 2	0 3 6	3 14 2
1908	0 13 3	0 9 3	3 14 6	4 17 0	3 7 3	0 6 4	0 3 7	3 17 2
1909	0 13 7	0 9 5	3 19 0	5 2 0	3 11 0	0 6 6	0 3 7	4 1 1
1910	0 13 11	0 9 10	3 4 2	4 7 11	3 14 6	0 6 6	0 3 6	4 4 6

Under the heading of the expenses of general government are included civil and legal expenditure, and the cost of Education and such public works as are constructed out of the ordinary revenue, as also the interest payable where the proceeds of loans have been used to defray the cost of their construction, together with the sinking fund instalments. The expenditure per head of population on account of some of these services, viz., educational and others of less importance, had either been stationary or declining until the year 1906-7, when there was a considerable increase in the cost of public instruction. The increase in other services during the last four years, as previously explained, is due to the transfers from the Consolidated Revenue in aid of the Public Works and Closer Settlement Funds, as shown in the following table. Excluding the transfers, the total governmental expenditure in 1910 was £3 14s. per head.

Year ended 30th June.	Transfers from Consolidated Revenue.			
	Public Works Fund.	Closer Settlement Fund.	Total.	Per Inhabitant.
	£	£	£	£ s. d.
1907	718,051	200,000	918,051	0 11 11
1908	1,404,479	200,000	1,604,479	1 0 5
1909	809,561	1,000,000	1,809,561	1 2 7
1910	911,177	235,000	1,146,177	0 13 11

TRUST FUNDS AND SPECIAL DEPOSITS.

The Trust Funds and Special Deposits form a very important division of the public finances, not only from the nature of the transactions and the volume of accumulated funds, but also by reason of the manner in which the accounts are operated upon in conjunction with the general finances of the State. To show the importance of the Account, the following table has been compiled. In 1871 the amount of credit was £213,340; in 1886, £2,702,486; and in 1906, £10,007,626.

Year ended 30th June.	Amount.	Year ended 30th June.	Amount.	Year ended 30th June.	Amount.
	£		£		£
*1871	213,340	1900	10,103,940	1906	10,007,626
*1876	854,571	1901	10,823,128	1907	2,359,665
*1881	1,671,183	1902	11,720,889	1908	1,867,442
*1886	2,702,486	1903	10,564,026	1909	2,575,757
*1891	4,997,055	1904	10,191,160	1910	2,743,156
1896	7,657,741	1905	10,562,513		

* Year ended 31st December.

The decreased amounts shown for the last four years are due to the removal of the securities belonging to the Government Savings Bank to the control of the Savings Bank Commissioners. As these securities are no longer vested in the Colonial Treasurer they are excluded from the Public Accounts.

The Trust Funds subject to the Audit Act of 1902 are divided into two classes, viz.:—Trust Accounts and Special Deposits. The former is defined by the Act to mean funds of which the Treasurer is, by statutory obligation, a trustee and custodian, and moneys that have been placed to the Trust Fund under previous Audit Acts, or which may be paid thereto by the authority of the Existing Act. The Trust Account became in course of time limited to one item—the Government Savings Bank Account—representing the moneys which were not invested at the time the securities were transferred to the Commissioners. By the repayment to the Bank of the amount, £1,145,292, at its credit in December, 1909, the account was closed. The amount was, however, redeposited, and is now dealt with under the Special Deposits Account.

The Special Deposits Account consists of sums deposited with the Treasurer for Store Accounts, Advance Accounts, and moneys not included in the Consolidated Revenue Account, General Loan Account, or Trust Account, which the Treasurer may direct to be placed to the Special Deposits Account.

The Special Trust Accounts consist of funds established by statute for particular objects, the principal being the Supreme Court Accounts and Sinking Funds for extinction of indebtedness on works not of a reproductive character. These accounts are controlled by the officers in charge of the departments, and are not directly subject to the provisions of the Audit Act, but, for general purposes, they form part of the Public Banking Account.

The total of all moneys under these headings on the 30th June, 1910, was £2,743,156—£2,541,840 as Special Deposits and £201,316 as Special

Trust Accounts. Of the Special Deposits, the largest items were:— Government Savings Bank Deposit Account, £1,765,292; State Debt Commissioners' Deposit Account, £130,039; State Debt Commissioners' Trust Accounts, £97,096; Public Works Department Store Advance Account, £101,239; Fixed Deposits Account, £150,100; Railway Store Account, £40,034; and Sundry Deposits Account, £139,156. The balance of £118,884 comprises items which are each under £20,000 in amount. The Special Trust Accounts were Supreme Court moneys, which amounted to £201,316.

The existence of a large account upon which the Treasury was free to operate has been of great assistance to the Consolidated Revenue in times past, the Trust Funds forming a strong reserve on which the Government drew in time of need. The great bulk of the funds bore interest, whether invested or not; but the power to use those funds enabled the Government to effect a large saving of the interest, which would have been charged for accommodation from the banks. At the same time, the existence of the funds has been a strong temptation to extravagance, as without them it would not have been possible to cope with the large excess of expenditure over revenue that was so marked a feature of public finance between 1885 and 1905.

Of the total sum of £2,743,156 at credit of the Trust Funds on 30th June, 1910, £32,807 were invested in securities; £2,373,790 were uninvested, but used in Advances and on Public Account at interest; while the remainder, £336,559, was similarly used, but without interest charge.

With the exception of the sum deposited in the Treasury by the Savings Bank of New South Wales, which was invested at $3\frac{1}{2}$, $3\frac{3}{4}$, and 4 per cent., a general rate of 4 per cent. was allowed to 31st December, 1894, on all funds entitled to interest. On the 1st January, 1895, the rate was reduced to 3 per cent. on all accounts except those on which the old rates could not be altered till the terms of the existing arrangements had expired. The rate of interest now paid is 3 per cent., with the following exceptions:—Crown Leases Security Deposit Account, $3\frac{1}{2}$ per cent.; Government Savings Bank Deposit Account, $3\frac{1}{2}$ and $3\frac{3}{4}$ per cent.; Fixed Deposits, $3\frac{3}{4}$ per cent.; the Sinking Funds of the Municipal Council of Sydney, 4 per cent.; the Master in Equity and Master in Lunacy Accounts, 1 per cent.; Curator of Intestate Estates and Registrar of Probates Accounts, 2 per cent.

On the 30th June, 1909, the Trust Funds in the custody of the Colonial Treasurer were held thus:—

	£
In Banks at current account	2,710,349
In New South Wales Funded Stock	14,500
In miscellaneous securities	18,307
Total	£2,743,156

The total amount of interest received by the Treasury during the year ended June, 1910, on Bank deposits and other temporary investments, was £46,506, of which part was earned by moneys belonging to the Trust Account.

All Trust Funds under the Audit Act remaining unclaimed for a period of two years, and balances of intestate and probate estates unclaimed after a lapse of six years, are transferred and surrendered to the Consolidated Revenue, and no person may legally claim moneys so vested; nevertheless, the Treasury invariably recognises and pays in all cases where an otherwise valid claim can be shown.

Under the provisions of the "State Debt and Sinking Fund Act, 1904," a Board called the "State Debt Commissioners," was constituted, consisting of the State Treasurer, the Chief Justice, the Speaker of the Legislative Assembly, and the Under Secretary to the Treasury, to administer, from the 1st July, 1905, various Trust Accounts and balances at credit of certain Special Accounts. The Sinking Funds created by the Loan Acts of 1894 (No. 2), 1895, 1896, 1897, 1898, and 1899 were also transferred to, and are administered by, the Commissioners.

LOAN APPROPRIATIONS.

All items of expenditure to be met by loan are authorised under an Appropriation Act, in the same manner as the ordinary expenditure chargeable to the general revenue, and under the Inscribed Stock Act of 1883 (46 Vic. No. 12), the passing of the Loan Estimates confers the power of raising the money required without the necessity of a special Loan Act. There is a further restriction to the expenditure of money, whether from loans or revenue, in the operation of the Public Works Act of 1888. Under the provisions of this Act, the question of the propriety of constructing all works estimated to cost more than £20,000, except those connected with the maintenance of Railways, is referred by resolution of the Legislative Assembly to the Parliamentary Standing Committee appointed during the first Session of each Parliament. The Committee investigates and reports to Parliament, and the Assembly declares whether it is expedient to carry out the proposed work; if the declaration be favourable, a Bill based thereon must be passed before the authorisation is absolute. The Loan Act of 1910 authorised the expenditure of £4,883,000 for services shown in the subjoined table:—

Services.	Total.
	£
Railways	1,562,000
Tramways	365,000
Railways and Tramways—Stores, &c.	50,000
Railway Construction... ..	1,007,500
Tramway Construction	159,000
Sydney Harbour Trust	341,000
Metropolitan Board of Water Supply and Sewerage ...	374,000
Hunter District Water Supply and Sewerage Board ...	7,000
Water Supply and Sewerage Construction, including Country Towns	277,500
Water Conservation	265,000
Abattoirs, Homebush Point	75,000
Improvement of Observatory Hill—Resumed Area ...	50,000
Closer Settlement	350,000
Total	£ 4,883,000

No provision is made for redeeming a portion of the proposed loan by a Sinking Fund. The principle of redemption from revenue was applied, under the Loan Acts of 1894 to 1899, to expenditure on works whose value will disappear by the time the loan, out of the proceeds of which they were constructed, falls due, but was discontinued in the Loan Acts of 1900 to 1906.

The Loan Appropriations, in quinquennial periods since 1875, are given in the subjoined table, the amounts proposed to be expended on Public Works being distinguished from those required for redemption of previous loans:—

Year.	Amount authorised—		
	For Public Works and Services.	For Redemption of Loans.	Total.
	£	£	£
1875-9	10,708,768	.....	10,708,768
1880-4	26,457,803	.....	26,457,803
1885-9	11,123,394	2,113,800	13,237,194
1890-4	15,927,993	2,910,800	18,838,793
1895-9	13,661,046	2,275,200	15,936,246
1900-4	17,690,893	2,841,612	20,532,505
1905	968,430	.....	968,430
1906	1,130,800	550,000	1,680,800
1907	2,470,981	1,500,000	3,970,981
1908	2,690,167	2,566,354	5,256,521
1909	3,249,212	2,863,700	6,112,912
1910	4,883,000	.....	4,883,000

Loan Appropriations are invariably in excess of the amount actually required for expenditure; and it has frequently happened that, beyond obtaining Parliamentary sanction, no further action has been taken in regard to loans authorised.

LOAN ACCOUNT.

The following figures show the amount of loans raised from the commencement of the Loan Account, in 1853, to the 30th June, 1910, and the proceeds available for expenditure:—

Treasury Bills, Debentures, Inscribed and Funded Stock sold to 30th June, 1910	£132,465,258
Discount, interest bonus, and charges	4,239,217
Net amount realised	£128,226,041
Add net amount transferred from Consolidated Revenue to make good amount short-raised	176,767
Add Advances to Settlers in excess of loans floated... ..	258,858
	<u>£128,661,666</u>
Less Treasury Bills in aid of Revenue not placed to Loan Account	4,769,653
Less proceeds of old loans not included in Loan Accounts	724,733
Less Municipal Debentures taken over and still outstanding	57,533
Less amounts over-raised and not placed to Loan Account	48,760
	<u>5,600,679</u>
Sum available for works, &c.... ..	£123,060,987

As the above statement shows, a sum of £132,465,258 has been raised by loan to the 30th June, 1910, in connection with which the discount, interest, bonus, and other charges amounted to £4,239,217, leaving £128,226,041 available for expenditure. The effective value of this latter amount was reduced by the sum of £5,600,679 (utilised as shown above). Thus, taking account of £435,625 transferred from Consolidated Revenue and Advances to Settlers in excess of loans floated, the net amount available for works, &c., was £123,060,987.

At the 30th June, 1910, £39,940,163 had been redeemed, £8,231,066 being a charge on the Consolidated Revenue, Advances to Settlers Stock being cancelled to the amount of £305,000, and the balance, £31,404,097, representing the proceeds of new loans, leaving £92,525,095 outstanding at the close of the last financial year. The aggregate amount of interest paid by the state on its loans to the 30th June, 1910, was £71,536,932, of which the charge during the last financial year was £3,117,472.

The uses to which the available sum of £123,060,987 was applied are shown in the following table. The sum of £31,404,097 for redemption of loans is included in the total; this amount was not, of course, an item of expenditure, but its inclusion is necessary to fully account for the total of £123,060,987, in which the original loans, as well as the redemption loans, were included:—

	£	£
Expended on—		
Reproductive Works:—		
Railways... ..	50,768,421	
Tramways	5,191,161	
Water Supply and Sewerage	12,188,774	
Sydney Harbour Trust and Darling Harbour Wharves Resumptions	6,276,258	
	<hr/>	£74,424,614
Partly Productive Works:—		
Water Conservation, Artesian Boring, &c... ..	1,539,449	
Harbours and Rivers Navigation	4,709,658	
Roads and Bridges	1,797,115	
	<hr/>	8,066,222
Other:—		
Advances to Settlers	683,308	
Public Works and Buildings	4,498,647	
Immigration	194,430	
Works in Queensland prior to separation ..	49,855	
Commonwealth Services	3,430,647	
	<hr/>	8,856,887
		<hr/>
		£91,347,723
Redemptions:—		
Loans repaid under various Acts	£15,885,697	
Treasury Bills for Loan Services repaid	15,142,900	
Debt due by Territorial Revenue for Immigration	375,500	
	<hr/>	31,404,097
		<hr/>
		£122,751,820
Add Credit Balance of Loan Account on 30th June, 1910		309,167
		<hr/>
Total (as shown previously)		£123,060,937

The sum actually expended from loans on public services was, therefore, £91,347,723, the balance to make up the total of £122,751,820 being represented by redemptions. The difference of £309,167 less than the sum available for expenditure is the amount of credit balance of the General Loan Account at the 30th June, 1910. Analysing the above amounts, the following shows the allocation of the items of expenditure:—

Reproductive Works	81 per cent.
Partly productive Works	9 "
Other	10 "
	<hr/>
	100

The loan expenditure on account of the various services during the last three years has been as follows:—

Head of Service.	1907-8.	1908-9.	1909-10.
	£	£	£
Railways	1,132,689	1,709,658	2,064,026
Tramways	230,625	417,975	407,259
Water Supply and Sewerage—			
Water Supply	176,019	419,557	200,229
Sewerage	161,250	200,602	173,378
Water Conservation and Irrigation	33,550		204,503
Harbours and Rivers Navigation	140,890	125,197	159,913
Roads and Bridges	1,690		
Public Works, Buildings, &c.	14,563	1,418	9,248
Advances to Settlers			
Roads of access to Crown Lands... ..	671		
Promotion of Agriculture... ..			
Loans to Pastures Protection Boards for wire netting		13,609	23,246
Abattoirs—Homebush	85,000	30,000	11,973
Other Services	1,202	3,798	
Total Expenditure on Public Works, &c. £	1,978,149	2,921,814	3,253,775
Less Excess Repayments to Credit of Votes over Expenditure	12,820	15,307	7,135
	£ 1,965,329	2,906,507	3,246,640
Loans repaid by New Loans (including Treasury Bills)	3,617,600	3,240,800	3,499,744
Total	£ 5,582,929	6,147,307	6,746,384

Most of the foregoing items were for services likely to be permanently revenue-producing, or deemed necessary for the proper development of the State; but there has been some expenditure on works and services for which there will be in a few years no substantial assets remaining. It is intended in future either to pay for such items out of revenue, or, if out of loans, to provide for their ultimate payment out of revenue by means of a sinking fund.

In the early stages of Australasian borrowing the expenditure was moderate, the stocks were not popular, and consequently interest was high; but latterly, as the conditions under which loans could be contracted became favourable, especially after 1875, few of the States set any bounds to their requirements. But when every allowance has been made for unwise or improvident expenditure, it will be found that the bulk of the proceeds of loans has been well utilised; since, apart from the certainty that the works constructed will be self-supporting, they have already materially assisted in developing the country's resources, and have largely enhanced the value of the public estate.

The loan expenditure, exclusive of payments on account of redemptions, between 1842 and 1890, thereafter every five years up to 1905, and then annually to 1910, is shown below:—

Year.	During each period.		At the end of each period.	
	Amount.	Per Inhabitant.	Amount.	Per Inhabitant.
	£	£ s. d.	£	£ s. d.
1842-1890			43,955,551	39 3 7
1891-1895	11,683,598	9 18 10	55,639,149	43 17 6
1896-1900	8,832,106	6 15 0	64,471,255	47 7 4
1901-1905	16,297,655	11 12 11	80,768,910	54 12 9
1906	1,367,022	0 18 3	82,135,932	54 4 10
1907	1,094,238	0 14 3	83,230,170	54 7 3
1908	1,965,329	1 5 0	85,195,499	54 3 3
1909	2,906,507	1 16 3	88,102,006	54 5 10
1910	3,246,640	1 19 6	91,347,723	54 17 4

The rate of borrowing which so marked the quinquennium 1901-1905 has been stopped; and loan expenditure will, in the future, be confined mainly to perfecting the various railway systems in operation, and to the gradual extension of the coast lines north and south.

It has been shown that while the public debt of the State on the 30th June, 1910, was £92,525,095, there has been an expenditure of £91,347,723 on public services; the difference, £1,177,372, being the difference between the face value of the stock and the net amount received, and the amount of Deficiency Treasury Bills outstanding. The receipts and expenditure in connection with the business undertakings or trading concerns of the State, namely, the Railways and Tramways, the Metropolitan and Hunter District Water and Sewerage Boards, and the Sydney Harbour Trust, for the past five years, are shown below :—

Year ended 30th June.	Receipts.	Working Expenses.	Amount available to meet Interest on Capital Cost.	Interest Obligations on Capital Cost.	Excess.
	£	£	£	£	£
1906	5,854,595	3,184,816	2,669,779	2,136,660	533,116
1907	6,433,476	3,444,244	2,989,232	2,229,707	759,525
1908	6,853,315	3,749,358	3,103,957	2,318,516	785,441
1909	6,998,180	4,145,383	2,852,797	2,360,999	491,798
1910	7,567,265	4,580,432	2,986,833	2,374,103	612,730

Thus, during the last five years there has been a substantial surplus, after meeting the interest, on the capital cost of the above-mentioned undertakings; and during 1909 the net earnings of these bodies were almost sufficient to pay the interest on the whole public debt of the State.

THE PUBLIC DEBT.

The public debt outstanding at each quinquennial period is given in the subjoined table. From 1850 to 1860 the average annual increase of indebtedness was £370,000; from 1860 to 1870, £585,000; from 1870 to 1880, £522,000; from 1880 to 1890, £3,348,000; from 1890 to 1900, £1,695,000; and from 1900 to 1910, £2,719,000.

Year.	Amount.	Year.	Amount.	Year.	Amount.
	£		£		£
1842	49,500	1865	5,749,630	1890	48,383,333
1845	97,900	1870	9,681,130	*1895	58,220,933
1850	132,500	1875	11,470,637	*1900	65,332,993
1855	1,000,800	1880	14,903,919	*1905	82,321,998
1860	3,830,230	1885	35,564,259	*1910	92,525,095

* 30th June.

The increase has been most marked since 1880. Between that year and 1885 the indebtedness per head nearly doubled, and between 1885 and 1893 increased by 30 per cent; but between 1893 and 1899 it showed a decrease of £1 1s. per head. During the last ten years it has increased by

13 per cent. The following table, which contains the more important particulars of the public loan accounts, shows the growth of the public debt during the last ten years. The amount of bonds or stock sold has been placed against the year in which the sales were affected, and not, as is the practice of the Treasury, against the year in which they were brought to account:—

Year ended 30th June.	Treasury Bills, Debentures, and Stock at close of each year—						
	Authorised.	Sold.	Redeemed.			Unredeemed (Out-standing Public Debt).	
			From Consolidated Revenue.	By New Loans.	Total.	Total.	Per Inhabitant.
£	£	£	£	£	£	£ s. d.	
1901	107,868,893	84,575,126	4,570,850	12,643,030	17,213,880	67,361,246	49 6 0
1902	111,621,285	90,429,602	4,725,987	14,111,130	18,837,117	71,592,485	51 6 0
1903	120,200,858	97,201,004	4,975,987	14,532,030	19,508,017	77,692,987	54 14 3
1904	123,047,542	100,793,398	5,750,987	15,008,830	20,759,817	80,033,581	55 7 2
1905	125,615,192	105,455,015	6,000,987	17,132,030	23,133,017	82,321,998	55 13 9
1906	128,660,513	110,860,251	6,250,987	18,967,530	25,218,517	85,641,734	56 11 2
1907	130,341,313	113,686,633	6,728,771	21,350,030	28,078,801	85,607,832	55 0 11
1908	139,512,294	120,029,343	7,425,887	24,967,630	32,393,517	87,635,826	55 5 7
1909	140,192,315	126,241,736	7,725,887	28,208,430	35,934,317	90,307,419	55 13 0
1910	146,305,227	132,465,258	8,231,066	31,709,097	39,940,163	92,525,095	55 11 8

The next table shows the annual payments under each head for interest and expenses of the public debt since 1901:—

Year ended 30th June.	Interest.	Redemptions (including premium on purchase of Debentures on account of Railway Loan, 31 Vic. No. 11).	Expenses connected with management of Interest on Stock, Bank of England.	Commission paid to Financial Agents in England and New South Wales.	Annual Interest and Charges paid.	
					Total.	Per Inhabitant.
	£	£	£	£	£	£ s. d.
1901	2,346,852	269,412	19,207	2,233	2,637,704	1 18 8
1902	2,498,750	274,550	19,250	2,825	2,795,375	2 0 6
1903	2,619,766	369,413	20,211	2,876	3,012,266	2 2 10
1904	2,745,348	369,412	20,637	2,479	3,137,876	2 3 10
1905	2,856,872	319,413	20,640	1,766	3,198,691	2 3 9
1906	2,941,059	360,016	20,643	3,137	3,324,855	2 4 5
1907	3,047,618	400,000	21,143	1,645	3,470,406	2 5 4
1908	2,986,844	400,000	21,143	5,641	3,413,628	2 3 5
1909	3,039,539	478,791	20,501	3,046	3,541,877	2 4 2
1910	3,117,472	421,034	18,894	4,621	3,562,021	2 3 4

At present the net revenue from the public works of the country is derived from railways, tramways, water supply and sewerage, and the Sydney Harbour Trust. The water and sewerage works of the Metropolitan area are not yet completed, and are now self-supporting—that is, the revenue is sufficient to meet the amount required to be expended on

account of maintenance, management, depreciation, and interest on capital liability. The same remarks apply to the works under the control of the Hunter District Board. In connection with these works it must, however, be borne in mind that, in the absence of a complete and compulsory reticulation, there must be a large outlay of capital expenditure on which no return is received.

The public debt is partly funded and partly unfunded, the funded debt comprising debentures, inscribed and funded stocks, and Treasury bills constituting the unfunded portion. The two classes are defined by the difference in currency, the funded debt being long-dated loans, and the unfunded, short-dated loans. Originally the term "funded" was applied only to interminable stocks, the amount of which, £530,189 is, as compared with the total debt, unimportant; but it is now the practice to apply this term also to redeemable debts. The amount outstanding on the 30th June, 1910, under each class, and the total debt, were as follow:—

Description of Stock.	Amount outstanding, 30th June, 1910.		Annual Interest.
	£	£	£
Funded Debt—			
Debentures—			
Matured, which have ceased to bear interest...	2,950	.....	.....
Still bearing interest	3,778,000	.....	151,147
N. S. Wales 4 per cents. (Interminable)...	530,189	.....	21,208
" Funded Stock	21,751,749	.....	770,979
" 1924 Stock	198,065	.....	5,942
" 1925 "	222,255	.....	6,668
Inscribed Stock (in London)	63,762,500	.....	2,217,619
" Advances to Settlers Act	120,050	.....	3,602
Total, Funded Debt		£90,365,758	.....
Unfunded Debt—			
Treasury Bills (for Loan Services)—			
Redemption of previous loans	1,500,000	.....	52,500
Treasury Bills (Deficiency in Revenue)	659,337	.....	20,464
Total, Unfunded Debt... ..		£2,159,337	.....
Total, Public Debt		£92,525,095	3,250,129

The following table shows the total amount of stock under each rate of interest. There were, however, overdue debentures to the amount of £2,950 outstanding on the 30th June, 1910, and Funded Stock to the value of £9,887, which have ceased to bear interest:—

Interest—Per cent.	Amount of Stock.	Annual Interest thereon.
	£	£
5	*4,050	135
4	† 17,552,626	701,646
3½	4,920,515	184,519
3½	52,478,385	1,836,743
3	17,569,519	527,086
Total	£92,525,095	£3,250,129

* Includes £1,350 matured debentures.

† Includes £1,600 matured debentures and £9,887 matured Funded Stock.

The 3 per cents. comprise £1,500,000 Inscribed Stock, floated in London during January, 1898, and Inscribed Stock, floated in London, Funded Stock raised locally, and Treasury Bills representing Trust Funds in the hands of the Government, and so invested. The whole of the Treasury Bills bore interest at the rate of 4 per cent. to 31st December, 1894, but the rate of interest on a large proportion was reduced to 3 per cent. from the 1st January, 1895.

DATES OF MATURITY.

The dates of repayment extend from 1910 to 1950; the sums repayable in the different years vary considerably in amount, the largest sum in any year being £16,698,065 in 1924. The redemption of such a large amount in one year is well deferred, and before it arrives a more satisfactory procedure in dealing with loans falling due must be devised than now obtains. The question of the consolidation of loans has received some attention, and any scheme of consolidation adopted will probably provide for the principle of redemption over a specified period, at the option of the Government, and not on a given date as is the present practice.

The following table shows the due dates and the amount repayable in each year:—

Class of Security.	Interest Rate.	Amount raised in—		Total Outstanding.	Year when Due.
		London.	Sydney.		
Debentures	5	£ 1,250	£ 100	£ 1,350	Overdue.
Inscribed Stock	4	.....	9,887	9,887	Overdue.
Debentures	4	1,600	.....	1,600	Overdue.
"	4	1,584,200	.....	1,584,200	1910.
"	4	60,000	.....	.....	.....
Inscribed and Funded Stock	4	.....	2,549,350	.....	.....
"	3½	.....	1,500,000	9,884,508	1912.
"	3½	.....	1,768,456	.....	.....
"	3	.....	4,006,702	.....	.....
"	4	.....	1,000,000	.....	.....
"	3½	.....	499,981	.....	.....
Debentures	4	.....	131,100	3,881,081	1915.
"	4	2,000,000	.....	.....	.....
Inscribed and Funded Stock	3½	.....	250,000	.....	.....
"	3½	12,826,200	.....	12,826,200	1918.
"	3½	.....	3,420,515	3,540,565	1919.
"	3	.....	120,050	.....	.....
Inscribed and Funded Stock	3½	.....	2,999,758	4,872,843	1921.
" Stock	3½	.....	1,873,085	1,874,015	1923.
"	3½	.....	1,874,015	.....	.....
"	3½	16,500,000	.....	16,698,065	1924.
N.S.W. 1924 Stock	3	.....	198,065	.....	.....
" 1925	3	.....	222,255	222,255	1925.
Inscribed Stock	4	9,686,300	.....	9,686,300	1933.
"	3	12,500,000	.....	12,500,000	1935.
"	3½	12,250,000	.....	12,250,000	1950.
Funded Stock	4	.....	530,189	530,189	Interminable.
Permanent	5	.....	2,700	2,700	Permanent.
Funded Debt	£	67,409,550	22,956,208	90,365,758	.....
Treasury Bills—					
Deficiency of Revenue	3	.....	522,447	522,447	£150,000 re- deemed annually. Redeemed up to £50,000 annually from surpluses.
"	3½	.....	136,890	136,890	
Redemptions	3½	.....	500,000	500,000	1910.
"	3½	.....	1,000,000	1,000,000	1911.
Unfunded Debt .. .. .	£	.....	2,159,337	2,159,337	.....
Total Public Debt	£	67,409,550	25,115,545	92,525,095	.....

As will be seen in this table, New South Wales is indebted to the London market for nearly three-fourths of the money raised under loan. This dependence on the English market was due originally to the lack of local capital; but of late years, when such capital has been fairly abundant, the Government has still turned to London, where the rate of interest at which it could borrow was much lower than would have been demanded by the local capitalists. The local and English rates are now much nearer than at any period in the history of Australia, and it is probable that the Government could place small loans almost as advantageously in Sydney as in London.

CHARGES ON FLOATING LOANS.

The charges incidental to the floating of an inscribed stock loan in England are heavy, the chief expenses being the underwriting charge of $1\frac{1}{2}$ per cent., and the composition duty of 12s. 6d. per cent. to the British Government. The other charges are:—Bank commission, $\frac{1}{4}$ per cent.; brokerage, $\frac{1}{4}$ per cent.; and minor expenses, which amount to about 1s. per cent.

The expenses incurred for the inscription and management of stock by the Bank of England are £350 per million, and for similar services by the London and Westminster Bank £150 per million.

The subjoined statement gives the charges of negotiation of the last two debenture loans, and of the inscribed and funded stock loans floated during the period from 1895 to 1910:—

Year when Floated.	Amount of Principal.	Gross Proceeds.	Charges.				Expenses per £100 of—		
			Stamp Duty.	Bank Commission.	Brokers' Commission, Postage, and Petty Expenses.	Total.	Principal.	Gross Proceeds.	
	£	£	£	£	£	£	£ s. d.	£ s. d.	
Issued (in London) as Debentures.									
1904-5	1,000,000	1,990,000	2,500	5,000	*30,272	37,772	1 17 9	1 18 0	
1904-5	1,000,000		1,462,500	9,375	3,750	*23,302	36,427	2 8 7	2 9 3
1909	1,500,000 3,000,000		2,955,000	18,750	7,500	*45,398	71,648	2 7 9	2 8 6
Issued (in Sydney) as Debentures.									
1904-5	131,100	131,100	nil.	nil.	nil.	nil.	nil.	nil.	
Issued (in Sydney) as Funded Stock.									
1907-8	6,169,092	6,169,092	.....	.....	14,724	14,724	0 4 9	0 4 9
1908-9	462,393	462,393	.....	.....	77	77	0 0 4	0 0 4
1909-10	3,473,523	3,473,523	.....	.....	6,609	6,609	0 3 10	0 3 10
Issued (in London) as Inscribed Stock.									
1895	4,000,000	3,376,605	25,000	20,000	10,721	55,721	1 7 10	1 8 9	
1898	1,500,000	1,506,269	9,375	7,500	4,441	21,316	1 8 5	1 8 4	
1901	4,000,000	3,760,000	25,000	20,000	*60,347	105,347	2 12 8	2 16 0	
1902	3,000,000	2,835,000	18,750	15,000	*45,608	79,358	2 12 11	2 16 0	
1905-6	2,000,000	1,990,000	12,500	5,000	*32,062	49,562	2 8 0	2 8 3	
1908	3,000,000	3,000,000	18,750	7,500	*45,858	72,108	2 8 1	2 8 1	
1909-10	7,250,000	7,085,000	45,312	18,125	*110,831	174,268	2 8 1	2 9 2	

* Includes underwriting commission of $1\frac{1}{4}$ per cent.

REDEMPTIONS AND SINKING FUNDS.

At maturity, loans are either redeemed or renewed, the latter being the more usual operation. The State Debt and Sinking Fund Act was brought into operation on the 1st July, 1905. Under the provisions of this Act a general sinking fund was created, and an annual appropriation of £350,000 is made to the credit of the fund, and such further amount as Parliament may provide, while under the Treasury Bills Deficiency Act, 1905, an additional £50,000 must be transferred to the fund whenever the operations of a financial year leave a sufficiently large surplus to enable this to be done. The Commissioners are directed from time to time to apply the amount at credit of the fund in purchasing, redeeming, or paying-off Government stock, debentures, or Treasury bills; and they are empowered to invest the moneys under the Act.

The whole amount of £400,000, however, is not available for general purposes, inasmuch as a sum of £300,000 is required yearly to retire matured Revenue Deficiency Bills in accordance with the terms of the Acts under which they were issued. The residue (£100,000), together with credits, interest on stocks, fixed deposits in banks of issue, and any balance brought forward from the previous period constitutes the amount

available for application to redemptions in any one year. It will be seen in the statement hereunder relating to the year ended June, 1910, that Deficiency Bills to the amount of £255,179 only were redeemed, the reason being that bills under Act 59 Vic. No. 22 still outstanding do not mature till the month of September in each year. The balance at credit of the fund on the 1st July, 1909, was £405,648. During the following twelve months the amount of £505,179 was used in redemption of loans, comprising Funded Stock, £250,000, and Treasury Bills, £255,179. On the other hand, the withdrawal was partly counteracted by a credit of £400,000 out of the Consolidated Revenue Fund, in accordance with the provisions of the Treasury Bills Deficiency Act of 1905, and of the Act under which the fund was created. The transactions under the Act for the financial year ended 30th June, 1910, were as follow:—

<i>Dr.</i>		£	£
To Balance, 30th June, 1909—			
Cash... ..		242,763	
Bank Fixed Deposits		121,350	
In other Securities		41,535	
		<hr/>	405,648
Country Towns Water Supply—Repayments			1,408
Country Towns Sewerage—Repayments			53
To promote settlement under Crown Lands Act of 1895—			
Repayments			6,286
Sydney Harbour Trust Loan Sinking Fund			14,748
Annual Contribution from Consolidated Revenue Fund			350,000
Contribution under Treasury Bills Deficiency Act, 1905			50,000
Interest on Investments, &c.			8,346
			<hr/>
Total			£836,489
<i>Cr.</i>		£	£
By Redemptions—			
Funded Stock Loan Act of 1900... ..		250,000	
Treasury Bills Deficiency Act, 1905		50,000	
Treasury Deficiency Bills Act, 59 Vic. No. 22		150,000	
"Edw. VII No. 8"		55,179	
		<hr/>	505,179
Cabling remittance from London			2
			<hr/>
			505,181
By Balance at credit of Commissioners—			
Invested in N.S.W. Funded Stock		167,186	
On Deposit with Colonial Treasurer		130,039	
On Account Current		34,083	
		<hr/>	331,308
Total			£836,489

Under the provisions of the "State Debt and Sinking Fund Act, 1904," various balances at credit of Special Accounts established by the Treasury Bills Deficiency Act, 1889, were transferred to and administered by the State Debt Commissioners from the 1st July, 1905. The Special Accounts were as follows:—The Treasury Bills Deficiency Act of 1895; the Treasury Bills Deficiency Act, 1900; the Treasury Bills Deficiency (Amendment) Act, 1901; the Railway Loan Redemption Act of 1889; and the Sinking Funds constituted by the Loan Acts of 1894 (No. 2), 1895, 1896, 1897, 1898, and 1899.

CHARACTER OF STOCK ISSUED.

As previously stated, loans have been raised by Treasury bills, debentures, and stock.

The Treasury bills are of a temporary character, and will in the course of a few years disappear from the statement of the public debt, either

by substitution of ordinary stock when the temporary purpose for which they were issued has been served, or by redemption on maturity. The practice of issuing Treasury bills, either in anticipation of, or to make good, deficiencies in revenue, is of long standing; but, as will be seen later on, they have been made to serve another purpose, and money has been raised by their sale to meet certain obligations for public works and redemptions. This is an innovation which could not be well avoided in the disturbed markets of late years. The Treasury bills are like the British Treasury bills in name only; but they have some points in common with the British Exchequer bills. The amount current on the 30th June, 1910, was £2,159,337, of which sum £659,337 represents bills in aid of revenue and £1,500,000 those issued for redemptions.

From 1842 to 1883 the practice followed was to raise loans by debenture bonds. In the latter year the Inscribed Stock Act was passed, in conformity with the provisions of the Imperial "Colonial Stock Act of 1877," and the system of raising loans by debentures terminated for the time being. During the financial year ended 30th June, 1905, however, debentures to the amount of £131,100 were raised locally under Act 64 Vic. No. 60, and under that Act and Act 1 Edw. VII No. 62, debentures to the amount of £2,000,000 were raised in London, both amounts maturing in 1915, and bearing interest at the rate of 4 per cent. per annum. The amount of debentures outstanding on the 30th June, 1910, was £3,780,950, which is about one-sixteenth of the inscribed stock current.

The issue of funded stock, which may be more appropriately termed registered stock, is regulated by four Acts passed in the years 1873, 1892, 1894, and 1895. Stock issued under the Act of 1873 is interminable, but that issued under the more recent Acts may be redeemed at the option of the Government, at the expiration of twenty years from the dates on which the Acts were passed, on the Treasurer giving twelve months' notice of his intention to redeem.

SECURITY FOR THE PUBLIC DEBT.

In the foregoing pages much has been said of the indebtedness of the State. It is, therefore, only fair to say something of the resources on which the State's creditors may rely as security for repayment; but before examining the nature of these resources it may be well to recapitulate the liabilities outstanding. On the 30th June, 1910, these were as follows:—

Public Debt, including Treasury Bills for loan services...	£91,865,758
Treasury Bills in aid of Revenue	659,337
Total... ..	£92,525,095

The total amount of Public Debt might reasonably be lessened by the sum of £969,319 shown below, representing the amount spent on services, which is to be repaid in annual instalments of principal and interest by the parties benefited by the expenditure:—

Country Towns Water Supply	£769,042
Country Town Sewerage... ..	53,869
Water and Drainage Trusts	122,276
Other Advances	24,132
Total	£969,319

The principal assets of the State are its business undertakings (railways, water supply, &c.), which in the last financial year yielded a net return, after paying working expenses, of £2,986,833, or almost enough to pay the interest on the whole of the debt; and the public lands, of which 127,975,308 acres are leased for pastoral or mining purposes, and 14,362,463 acres sold on deferred payments. The annual rent from the former is £702,000, and the balance due in respect of the latter amounts to £8,649,000.

The following statement shows how the public debt has been expended, and gives an approximate valuation of the resources on which the State may rely as security for the public creditors. The debt has been incurred principally on works of a reproductive character, 80 per cent. being on reproductive works; 9 per cent. on indirectly productive works for the facilitation of traffic; and 11 per cent. on unproductive works.

The value of the securities has been calculated by taking first the actual average net return of the business undertakings for the three years ended 30th June, 1910, and capitalising at 3½ per cent. The value of the public lands has been estimated on the basis only of the annual revenue capitalised at 3½ per cent., and the amount still outstanding on land alienated (conditional purchases). The 18 million acres neither alienated nor leased have not been taken into account, as no valuation has been made by the Lands Department. There is, therefore, little doubt that the value quoted is greatly under-estimated. Finally, the actual amount of the Sinking Fund and the cash in hand on 30th June, 1910, have been included.

Public Debt.		Estimated Value of Securities.	
Reproductive Works—	£	Business Undertakings—	£
Railways and Tramways	55,959,582	Railways and Tramways	67,680,000
Water and Sewerage	12,188,774	Water and Sewerage	10,864,000
Sydney Harbour Trust	5,109,888	Sydney Harbour Trust	6,633,000
Darling Harbour Resumptions ..	1,166,370	Darling Harbour Resumptions ..	929,000
	<u>£74,424,614</u>		<u>£86,106,000</u>
Indirectly Productive Works—		Public Lands—	
Conservation of Water, &c.	1,559,449	Leased	13,758,000
Roads and Bridges	1,797,115	Amount outstanding on C.P.'s ..	8,649,000
Harbours and Rivers	4,709,658		<u>£22,407,000</u>
	<u>£8,066,222</u>		
Unproductive Works—		Cash in hand.. ..	5,341,000
Public Buildings and Offices	4,498,647	Sinking Fund	331,000
Handed over to Commonwealth ..	3,430,647		<u>£5,672,000</u>
Other Works	2,104,965		
	<u>£10,034,259</u>		
Total Debt	£92,525,095	Total Estimated Value of Securities	£114,185,000

Thus the value of the securities exceeds the debt by nearly 22 millions sterling. State properties can hardly be valued on the basis of private business undertakings, as they are not expected to earn as a maximum a much higher net return than is necessary to meet the interest on the capital expended. When the results are much in excess of the interest due, public opinion at once demands that reductions be made in the rates and charges.

It should also be borne in mind that, in valuing the securities, account has not been taken of works not directly producing revenue, such as harbour works, roads, bridges, and others, although these works have been of great service in developing the country. Latent power of taxation forms a further and inestimable security.

FINANCIAL RELATIONS BETWEEN STATES AND COMMONWEALTH.

One of the most difficult problems to be solved in formulating a constitution for the Commonwealth of Australia was met in the determination of the relative shares of the Commonwealth and States respectively in the proceeds of taxation from Customs and Excise. Each of the two governing powers was invested with authority to levy direct taxation, consequently no difficulty arose in this respect, but the power to impose tariffs through Customs and Excise duties was vested in the Commonwealth Parliament. Hence it became necessary to decide some proportion of the revenue derivable from these sources of indirect taxation which should constitute by legal right the share of the States *quo States* in these imposts.

By the Act under which the Commonwealth Constitution was founded it was decided by section 87, popularly known as the "Braddon" section, that during the first ten years of the existence of the newly-created Australian Commonwealth there should be returned to the States three-fourths of the net revenue from Customs and Excise; also, that such proportion should continue to be returnable after the ten-year period until the Commonwealth Parliament should decide what other disposition of these revenues should be made.

It was perceived prior to the foundation of the Commonwealth that this conventional arrangement, assigning one-fourth of the Customs and Excise duties to the Commonwealth and three-fourths to the States, would prove not only cumbersome in practical working, but would create most difficult conditions in the Federal financial arrangements, in that it would be necessary, in levying indirect taxation at any future period, to raise in reality four pounds whenever one pound might be required, thus taking from the citizens three pounds on each occasion, which might in general be unnecessary.

After the inception of the Commonwealth, it also became clear by practical experience, first, from the Commonwealth standpoint, that of the total revenue, which the public policy of the Commonwealth declared to be the limit of indirect taxation which it was desirable to place on the people, the amount represented by one-quarter of the impost was insufficient for performing the functions of the Federal Government.

Secondly, from the State standpoint, it was found that for the State Treasurers a very disturbing factor constantly existed, inasmuch as it was impossible to forecast within reasonable time for their annual financial arrangements what would be the money-value of their three-quarter share of the Federal taxation. The Federal and State systems of finance were so intertwined and interdependent as to provide a ready and practically certain means of friction between two powers each with clearly distinct functions, which in all other respects it should be possible to control and perform without interference or disputation the one with the other.

During the early years of the experience of the Commonwealth the question of the policy to be pursued at the expiry of the period of ten years named in the Braddon section was not immediately pressing, because (1) the needs of the Federation had not become sufficiently urgent to cause a necessity for appropriating the full quarter allocated for Commonwealth requirements, and (2) the fact that a term of years had yet to ensue before a fresh arrangement could be made under the Constitution tended to the postponement of the determination of a question which was fully recognised to be intricate and difficult of solution.

The following statement will serve to show the degree in which one-fourth of the Customs and Excise taxation served to fulfil the Commonwealth requirements, and how, with the progression of time and the

development of national needs, the amount available became insufficient for such purposes:—

Year.	Net Revenue, Customs and Excise. (1)	One-fourth of net Customs and Excise revenue. (2)	Portion of one-fourth of net Revenue needed for Common- wealth Expenditure. (3)	Balance of the one-fourth not used by Common- wealth, and returned to States. (4)=(2)-(3)	Three-fourths due to States under Constitution. (5)	Total returned to States. (6)=(4)+(5)
	£	£	£	£	£	£
1901-2 ...	8,633,996	2,158,499	1,269,757	888,742	6,475,497	7,364,239
1902-3 ...	9,412,442	2,353,110	1,207,876	1,145,234	7,059,332	8,204,566
1903-4 ...	8,844,195	2,211,049	1,465,716	745,333	6,633,146	7,378,479
1904-5 ...	8,543,310	2,135,827	1,400,541	735,286	6,407,483	7,142,769
1905-6 ...	8,739,298	2,184,825	1,354,915	829,910	6,554,473	7,384,383
1906-7 ...	9,388,097	2,346,524	1,540,523	806,001	7,039,573	7,845,574
1907-8 ...	11,368,220	2,842,055	2,511,315	330,740	8,526,165	8,856,905
1908-9 ...	10,573,860	2,643,465	2,643,465	Nil.	7,930,395	7,930,395
1909-10 ...	11,323,207	2,830,801	2,830,801	Nil.	8,492,406	8,492,406
Total ...	86,824,625	21,706,155	16,224,909	5,481,246	65,118,470	70,599,716

From the above table it is apparent that during the first seven years the Commonwealth was entitled to receive as its share more than sufficient for its declared needs, and that since 1908 there have been commitments devolving on the Federal authorities exceeding the moneys at their disposal. Consequently, it has become seriously evident towards the close of the ten-year period that more revenue will be required in the future than has been available in the past to enable the Federal Government to fulfil its assigned functions.

During the period of negotiation amongst the States antecedent to the creation of the Commonwealth, attempts were made to devise an acceptable plan relating to the allocation of the Customs and Excise revenue, and the compromise known as the Braddon section was adopted tentatively to avoid the risk of failure in the formative stages of the Federation. And during the succeeding years eight conferences have been held by the Premiers of the several States to endeavour to secure finality, but until the year 1909 no definite agreement was reached. In August, 1909, a Conference of Premiers met at Melbourne in conjunction with the Prime Minister of the Commonwealth, and after prolonged discussion *in camera* an agreement was signed by all the parties to the following effect:—

“ In the public interests of the people of Australia, to secure economy and efficiency in the raising and the spending of their revenues, and to permit their Governments to exercise unfettered control of their receipts and expenditure, it is imperative that the financial relations of the Federal and State Governments—which, under the Constitution, were determined only in part, and for a term, of years—should be placed upon a sound and permanent basis.

“ It is therefore agreed by the Ministers of State of the Commonwealth and the Ministers of the component States in conference assembled, to advise:—

1. That to fulfil the intention of the Constitution by providing for the consolidation and transfer of State debts, and in order to ensure the most profitable management of future loans by the establishment of one Australian stock, a complete investigation of this most important subject shall be undertaken forthwith by the Governments of the Commonwealth and the States. This investigation shall include the question of the actual cost to the States of transferred properties as defrayed out of loan or revenue moneys.

- “ 2. That in order to give freedom to the Commonwealth in levying duties of Customs and Excise, and to assure to the States a certain annual income, the Commonwealth shall, after the first day of July, one thousand nine hundred and ten, pay monthly to the States a sum calculated at the rate of one pound five shillings per annum per head of population according to the latest statistics of the Commonwealth.
- “ 3. That in recognition of the heavy obligations incurred in the payment of Old-Age Pensions, the Commonwealth may, during the current financial year, withhold from the moneys returnable to the States such sum (not exceeding six hundred thousand pounds) as will provide for the actual shortage in the revenue at the end of the said year. If such shortage amounts to six hundred thousand pounds the basis of contribution by the States shall be three shillings per head of population in the Pension States (viz., New South Wales, Victoria, and Queensland), and two shillings per head of population in the Non-Pension States (viz., South Australia, Western Australia, and Tasmania). If such shortage be less than six hundred thousand pounds the contributions shall be reduced proportionately per head of population as between the Pension and Non-Pension States.
- “ 4. That in view of the large contribution to the Customs revenue *per capita* made by the State of Western Australia, the Commonwealth shall (in addition to the payment provided for in paragraph No. 2) make to such State special annual payments, commencing at two hundred and fifty thousand pounds in the financial year one thousand nine hundred and ten and one thousand nine hundred and eleven, and diminishing at the rate of ten thousand pounds per annum. The Commonwealth shall in each year deduct on a *per capita* basis from the moneys payable to the States of the Commonwealth an amount equal to one-half of the sum so payable to the State of Western Australia.
- “ 5. That the Government of the Commonwealth bring before the Parliament during this session the necessary measure to enable an alteration of the Constitution (giving effect to the preceding paragraphs, Nos. 2, 3, and 4) to be submitted to the electors.”

The necessary steps were taken by the Prime Minister of the Commonwealth to give effect to the agreement, which was done by the passage in the Commonwealth Parliament of the “Constitution Alteration (Finance) Act.” This measure was passed by the Federal Parliament in December, 1909, but was rejected by the electors at a referendum taken during the Federal General Election in April, 1910. The voting in each State was as follows:—

State.	Votes recorded—		Majority—	
	In favour of Alteration.	Against Alteration.	In favour.	Against.
New South Wales	227,650	253,107	.....	25,457
Victoria ...	200,165	242,119	.....	41,954
Queensland ...	87,130	72,516	14,614	.....
South Australia ...	49,352	51,250	.....	1,898
Western Australia	49,050	30,392	18,658	.....
Tasmania	32,167	21,454	10,713	.....
Total	645,514	670,838	.....	25,324

As the table shows, this alteration of the Constitution was negatived in three States, New South Wales, Victoria, and South Australia, as well as in the Commonwealth as a whole. It therefore devolved on the Federal Parliament to determine the amount of revenue to be returned to each State, and the Surplus Revenue Act of 1910 was passed. In accordance with this Act, the Commonwealth will, during a period of ten years, commencing on the 1st July, 1910, and thereafter until Parliament otherwise provides, pay to each State, or apply to the payment of interest on debts of the State taken over by the Commonwealth, an annual sum of 25s. per capita. The State of Western Australia is to receive an additional sum, amounting in the first year to £250,000, and diminishing in each succeeding year by £10,000—one half of these payments to be deducted proportionately from the amounts payable to all the States. The Treasurer must also pay to the several States all surplus revenue in hand at the end of each financial year. The Act provides that, during the six months January to June, 1911, the Commonwealth may deduct from the amount payable the sum of £450,000, the estimated shortage in the Commonwealth revenue for the year 1910-11. The following statement shows the amounts to be deducted from each State, as set forth in the Schedule of the Act:—

	£
New South Wales	178,973
Victoria	143,092
Queensland	63,788
South Australia	30,529
Western Australia	20,113
Tasmania	13,505
Total	£450,000

During the first six months of the financial year, ending June, 1911, the Commonwealth must return to the States three-fourths of the Customs and Excise revenue, in accordance with the Braddon Clause, but the Surplus Revenue Act provides that if the amounts paid during this period exceed 12s. 6d. per capita, the amounts during the succeeding six months may be correspondingly reduced, so that the payments during the whole year shall not exceed 25s. per capita, less the sum of £450,000 mentioned above.

At the Federal General Election in 1910 a referendum was also taken in connection with the transfer of State debts to the Commonwealth. In accordance with the Constitution, the Commonwealth was empowered to take over only such debts as had been incurred prior to Federation. An alteration was proposed, and ratified by the electors, to enable the Commonwealth to take over all debts incurred by the States.

The voting in each State at the State debts alteration referendum was as follows:—

State.	Votes recorded—		Majority—	
	In favour of Alteration.	Against Alteration.	In favour.	Against.
New South Wales	159,275	318,412	.....	159,137
Victoria	279,392	153,148	126,244	.....
Queensland	102,705	56,346	46,359	.....
South Australia	72,985	26,742	46,243	.....
Western Australia	57,367	21,437	35,930	.....
Tasmania	43,329	10,186	33,143	.....
Commonwealth	715,053	586,271	128,782	.....

A majority in favour of the resolution was recorded in all the States except New South Wales.

PRIVATE FINANCE.

BANKING.

FIFTEEN banking institutions are transacting business within the State, four of which have their head offices in Sydney, three in Melbourne, two in Brisbane, one in Wellington, N.Z., four in London, and one in Paris. Of the four local banks, three have branches outside the State, but the fourth confines its operations to New South Wales. Two of the local banks—the Bank of New South Wales and the City Bank of Sydney—carry on their business under the provisions of special Acts of Incorporation, and the liability attached to the shareholders is limited by the Acts to double the amount subscribed; the Commercial Banking Company of Sydney (Limited) and the Australian Bank of Commerce (Limited) are registered as limited companies. The latter bank was registered in September, 1909, and came into operation on the 1st January, 1910; previously it was registered as the Australian Joint Stock Bank (Limited).

Considerable improvement might be made in the laws relating to banks and banking at present in force in the State. The failure of several financial institutions, called banks, during the crisis of 1893, showed the absolute necessity for a complete revision of the conditions under which deposits may be received from the general public, but up to the present no new legislation has been enacted. Institutions which transact the business of banking are required under the existing law to furnish, in a prescribed form, quarterly statements of their assets and liabilities, and from these statements and from the periodical balance-sheets, the information here collated has been prepared. The provisions of the law are observed by the banks, but the returns furnished are unsuited to the modern methods of transacting banking business, and they cannot be accepted without question as disclosing the stability or otherwise of the institutions by which they are issued.

As a rule, no information can be elicited beyond that set forth in the half-yearly or yearly balance-sheets. A want of uniformity is exhibited in respect of the dates of closing the accounts, and the methods of presentation are very diverse. Important items which should be stated specifically are included with others of minor import, and in some cases current accounts are blended with other accounts instead of being shown separately. The limited value of the information afforded to the public is evidenced by the fact that it was impossible to obtain an account of their liabilities from the publications of several institutions which suspended payment in 1893, and these particulars have never been disclosed.

CAPITAL OF BANKS.

According to the latest information available, the paid-up capital of the fifteen banks doing business in the State, is £23,061,772, of which £1,977,710 carry a preferential claim on the profits of the companies. The Comptoir National d'Escompte de Paris has been included, although a very small portion of the capital of this institution is used in New South Wales, where only one branch has been established.

In the following table is a statement of the ordinary and preferential capital of each bank at the date shown, with the amount of the reserve fund of the institution. In the case of some of the companies which were reconstructed, certain reserves are held in suspense pending realisation of assets, of which no account has been taken in the table:—

Bank	Date of Balance-sheet.	Capital Paid up.			Reserve Fund.
		Ordinary.	Preferential.	Total.	
HEAD OFFICE, SYDNEY.					
Bank of New South Wales	Mar., 1910	£ 2,500,000	£	£ 2,500,000	£ 1,750,000
Commercial Banking Co. of Sydney (Limited)	June, 1910	1,500,000	.....	1,500,000	1,340,000
Australian Bank of Commerce (Limited)	June, 1910	958,172	.....	958,172	Nil.
City Bank of Sydney	June, 1910	400,000	.....	400,000	14,500
HEAD OFFICE, MELBOURNE.					
Commercial Bank of Australia (Limited)	June, 1910	1,204,421	.....	1,204,421	Nil.
Royal Bank of Australia (Limited)	Mar., 1910	300,000	.....	300,000	130,000
National Bank of Australasia (Limited)	Mar., 1910	1,192,440	305,780	1,498,220	230,000
HEAD OFFICE, BRISBANE.					
Queensland National Bank (Limited)	June, 1910	413,369	.....	413,369	84,000
Bank of North Queensland (Limited)	June, 1910	100,000	.....	100,000	20,000
HEAD OFFICE, WELLINGTON.					
Bank of New Zealand	Mar., 1910	500,000	1,500,000	2,000,000	800,000
HEAD OFFICE, LONDON.					
Bank of Australasia	Oct., 1909	1,600,000	.....	1,600,000	1,710,000
Union Bank of Australia (Limited)	Feb., 1910	1,500,000	.....	1,500,000	1,310,000
London Bank of Australia (Limited)	Dec., 1909	376,223	171,930	548,153	35,000
English, Scottish, and Australian Bank (Limited)	June, 1909	539,437	.....	539,437	181,904
HEAD OFFICE, PARIS.					
Comptoir National d'Escompte de Paris	Dec., 1909	8,000,000	.....	8,000,000	1,412,235
Total	.....	£ 21,084,062	1,977,710	23,061,772	9,017,659

In addition to the paid up capital shown above, an amount of £86,907 had still to be paid in respect of calls made on the shareholders of three banks—Australian Bank of Commerce (Limited), £84,788 ; Queensland National Bank (Limited), £1,879 ; and London Bank of Australia, £240.

The following table shows the amount of the paid-up capital and reserve funds of all banks operating in the State, at intervals since 1890:—

Year.	Number of Banks.	Capital Paid up.		Total.	Reserve Funds.
		Ordinary.	Preferential.		
1890	17	£	£	£ 13,929,326	£ 7,832,047
1895	13	14,610,177	5,094,780	19,704,957	4,175,912
1900	13	12,212,129	4,594,940	16,807,060	4,529,109
1905	13	9,870,871	4,095,060	13,965,931	5,474,199
1906	13	10,034,856	4,095,060	14,179,916	5,818,412
1907	14	16,615,104	4,095,060	20,710,164	7,498,130
1908	14	17,672,047	1,977,710	19,649,757	7,681,208
1909	15	21,086,062	1,977,710	23,061,772	9,017,659

The alteration in amounts of paid-up capital for 1908 is due to the transference of preferential capital by the Commercial Bank of Australia (Limited) to the Special Assets Trust Co. (Limited), and to ordinary capital.

LIABILITIES AND ASSETS OF BANKS.

The aggregate liabilities to the public of the banks enumerated, as at the given dates, were £216,499,988, against which there were assets amounting to £251,201,004. The following table gives the liability for each institution, notes in circulation and deposits being separated from other liabilities. In some cases small items which should be classed with "other liabilities" are included with deposits, as they cannot be distinguished in the balance-sheets, and in the case of the Commercial Bank of Australia (Limited), the accounts of the Assets Trust of the old bank have been excluded:—

LIABILITIES TO THE PUBLIC.

Bank.	Notes in Circulation.	Deposits.	Other Liabilities.	Total.
Bank of New South Wales.. .. .	£ 1,149,153	£ 80,348,580	£ 5,026,029	£ 86,523,762
Commercial Banking Co. of Sydney (Limited).. .	568,935	18,321,058	823,609	19,713,602
Australian Bank of Commerce (Limited) .. .	79,447	4,040,334	288,483	4,408,264
City Bank of Sydney	102,346	1,390,146	Nil.	1,492,492
Commercial Bank of Australia (Limited) .. .	215,622	5,495,010	2,275,601	7,986,233
National Bank of Australasia (Limited).. . . .	330,933	9,745,790	1,426,788	11,503,511
Royal Bank of Australia (Limited)	15,877	1,543,892	658,017	2,217,786
Queensland National Bank (Limited)	Nil.	8,128,772	476,483	8,605,255
Bank of North Queensland (Limited)	Nil.	675,005	25,828	700,833
Bank of New Zealand	919,329	14,687,650	1,146,913	16,753,892
Bank of Australasia	488,309	16,214,618	2,287,380	18,993,307
Union Bank of Australia (Limited)	470,997	21,349,025	1,559,150	23,379,172
London Bank of Australia (Limited)	131,761	4,562,523	641,927	5,336,211
English, Scottish, and Australian Bank (Limited) .. .	63,071	6,808,716	305,150	7,181,937
Comptoir National d'Escompte de Paris	Nil.	44,063,014	7,043,629	51,706,643
Total	£ 4,540,853	187,374,163	24,584,902	216,499,988

The assets which each bank shows against its liabilities to shareholders and the public are given in the following table:—

Bank.	Coin and Bullion and Cash Balances.	Advances.	Other Assets.	Total Assets.
Bank of New South Wales.. .. .	£ 3,959,934	£ 20,561,443	£ 11,432,028	£ 40,953,405
Commercial Banking Co. of Sydney (Limited).. .	4,939,634	11,354,238	6,416,201	22,710,073
Australian Bank of Commerce (Limited)	560,405	3,754,889	1,063,253	5,378,547
City Bank of Sydney	453,830	1,199,277	265,044	1,918,151
Commercial Bank of Australia (Limited)	1,266,127	5,692,634	2,867,969	9,226,730
National Bank of Australasia (Limited).. . . .	2,165,192	8,017,862	3,108,713	13,291,767
Royal Bank of Australia (Limited)	400,841	1,232,904	1,629,660	2,663,405
Queensland National Bank (Limited)	1,411,300	5,392,720	2,323,564	9,127,624
Bank of North Queensland (Limited)	141,089	568,243	129,993	829,325
Bank of New Zealand	3,258,073	8,060,206	8,356,032	19,674,311
Bank of Australasia	3,921,842	14,806,564	3,701,373	22,429,779
Union Bank of Australia (Limited)	4,042,314	14,356,601	7,935,185	26,334,100
London Bank of Australia (Limited)	903,984	3,653,713	1,423,204	5,981,901
English, Scottish, and Australian Bank (Limited) .. .	1,073,337	4,855,135	2,061,619	7,990,141
Comptoir National d'Escompte de Paris	3,697,297	56,341,426	1,651,622	61,690,345
Total	£ 37,198,339	159,237,265	53,765,400	250,201,004

Both the assets and liabilities represent the total of the various banks, wherever situated, not merely those in New South Wales, which are treated subsequently. The difference between the assets and liabilities shown in the table amounts to £33,701,016, and consists of the paid-up capital and reserves (£32,079,431), dividends paid (£1,237,910), and undivided profits (£333,675).

LOCAL BUSINESS OF BANKS.

The absence of uniformity in the returns submitted has made certain adjustments necessary in order to render comparable the figures of the various banks. The alterations consist of the exclusion, from the assets of two of the banks, of the balances due by branches and agencies outside New South Wales to the head office in Sydney. The following table shows the assets and liabilities and the surplus assets of the banks, at intervals from 1860 onwards. These figures represent the averages for the quarter ended 31st December in each year:—

Year.	Assets within the State.	Liabilities within the State.	Surplus assets.
	£	£	£
1860	8,053,463	6,480,642	1,572,821
1870	9,863,071	7,198,680	2,664,391
1880	21,658,317	19,485,862	2,172,455
1890	52,436,977	37,248,937	15,188,040
1900	43,036,427	33,969,731	9,066,696
1905	43,694,137	38,869,062	4,834,075
1906	44,457,957	41,416,737	3,041,220
1907	49,345,915	44,937,466	4,408,449
1908	51,428,158	46,140,027	5,288,131
1909	51,914,494	48,330,893	3,583,601

In New South Wales the assets of the banks reached their highest point in 1891 and 1892; in the latter year the excess over liabilities was £16,146,513. From this sum the excess of assets fell in 1901 to £8,359,727, and in June, 1906, to £3,041,220; in December, 1909, the excess was £3,583,601. In the last four years there has been a decided expansion in the amount of banking business within the State, in conformity with the general progress and development.

It is apparent from the next table that the deposits in banks have vastly increased in volume, so also have advances, but to a less degree. Ten years ago the deposits in the banks of the State reached a total of £31,000,000, and the advances were nearly £34,000,000; and in June, 1910, the deposits were £50,155,585, while the advances were only £37,482,907. Prior to the financial crisis of 1893 the banks were accustomed to receive large deposits from the United Kingdom. At present they receive very little from that source, but considerable sums of money of Australian origin are held on deposit in London. These amounts form a source of profit to the institutions naturally, and it is regrettable that they cannot be used for investment locally. Expansion of banking in a country depends on the sufficiency of safe sources of investment for the accumulating deposits, otherwise the banks must lower the rates of interest.

The classification, both of assets and liabilities, required by the schedule to the Act is too general to admit of detailed analysis; thus under the term "deposits not bearing interest," most of the banks are accustomed to return interest accrued and all debts due by them other than deposits at interest, notes, and bills. In this respect the returns are misleading, and it unfortunately happens that there are no means of correcting the figures.

As the coin and bullion together represent only 20·7 per cent. of the assets of the banks, it is unfortunate that no dissection is made of the various classes of advances, which represent in the aggregate 74·1 per cent. of the total assets which the banks hold against all their liabilities. The tables

show the preponderance of deposits among the liabilities, and of advances among the assets, and it may perhaps assist to a fuller realisation of the extent to which the banking business of the State depends on these two factors, to emphasise the fact that deposits represent 94·4 per cent. of liabilities (exclusive of shareholders), while advances are 74·1 per cent. of assets, as quoted above. These items call for more extensive discussion in the returns.

The assets show coin and bullion separately, but 93 per cent. of the other assets are placed together under the term "notes and bills discounted, and all other debts due to the bank." The following statement of liabilities refers to local business only:—

AVERAGE LIABILITIES WITHIN NEW SOUTH WALES.

(Exclusive of Liabilities to Shareholders.)

Year.	Notes.	Deposits.			Other Liabilities.	Total Liabilities.
		At Interest.	Without Interest.	Total Deposits.		
	£	£	£	£	£	£
1881	1,390,376	11,869,979	7,719,236	19,589,215	446,535	21,426,126
1885	1,714,095	18,387,705	8,819,979	27,207,684	923,843	29,845,622
1890	1,503,404	25,114,127	9,932,310	35,046,437	278,792	36,828,633
1895	1,223,864	20,406,822	10,222,437	30,629,259	183,929	32,037,052
1900	1,447,641	20,009,081	12,224,510	32,233,591	288,499	33,969,731
1905	1,430,335	22,211,627	14,859,427	37,071,054	358,673	38,860,062
1906	1,564,670	22,585,802	16,834,690	39,420,492	431,575	41,416,737
1907	1,756,696	24,034,857	18,729,709	42,764,566	416,204	44,937,466
1908	1,759,020	25,958,298	17,951,589	43,909,887	471,120	46,140,027
1909	1,758,913	25,926,547	20,198,450	46,124,997	446,983	48,330,893

Against these liabilities, in which the growth of deposits is the most noticeable feature, as already mentioned, the average assets were as follows:—

Year.	Coin and Bullion.	Advances.	Landed Property.	Other.	Total.
	£	£	£	£	£
1881	3,674,982	19,038,386	585,224	3,183,395	26,481,987
1885	4,233,109	30,556,628	958,349	2,067,490	37,815,576
1890	5,659,057	41,623,049	1,601,589	2,796,100	51,679,795
1895	7,516,278	35,707,153	1,919,017	479,881	45,622,329
1900	6,126,126	34,385,388	1,874,099	650,814	43,036,427
1905	8,823,260	32,447,659	1,799,231	623,987	43,694,137
1906	7,507,363	34,415,596	1,819,417	715,581	44,457,957
1907	9,552,085	37,244,216	1,746,940	802,674	49,345,915
1908	9,600,866	39,213,472	1,793,518	820,302	51,428,158
1909	10,717,751	38,485,738	1,814,351	896,654	51,914,494

METALLIC RESERVES OF BANKS.

The proportion of metallic reserves which banking institutions should keep constantly in stock is not fixed by any enactment. Compared with the total liabilities, and with deposits at call and note circulation, the amount of coin and bullion has varied very considerably from year to year, as indicated below:—

Year.	Coin.	Bullion.	Total.	Proportion of Metallic Reserves—	
				To Total Liabilities.	To Deposits at Call and Note Circulation.
	£	£	£	per cent.	per cent.
1860	1,578,424	90,052	1,668,476	25·7	*
1870	1,291,177	86,744	1,377,921	19·1	*
1880	3,488,554	75,008	3,563,562	18·3	49·5
1890	5,619,111	87,659	5,706,770	15·3	49·1
1909	5,933,076	193,050	6,126,126	18·0	44·8
1901	5,814,180	171,545	5,985,725	17·1	41·7
1902	6,329,551	223,172	6,552,723	18·3	46·7
1903	5,824,539	226,307	6,050,846	17·7	43·3
1904	6,175,911	276,446	6,452,357	18·5	46·1
1905	8,624,083	169,177	8,823,260	22·7	54·2
1906	7,247,347	260,016	7,507,363	18·1	40·8
1907	9,342,631	209,454	9,552,085	21·3	46·6
1908	9,350,942	249,924	9,600,866	20·8	48·7
1909	10,521,262	196,489	10,717,751	22·2	48·8

* Amount of deposits at call unobtainable.

In the foregoing table the figures represent the weekly average amounts during the quarter ended 31st December in each year; the Comptoir National d'Escompte de Paris has been included since 1907, and the Royal Bank of Australia, Ltd., in 1909.

PAPER CURRENCY.

The note circulation in New South Wales, in conformity with the general tendency throughout the financial world, has not increased in recent years, either in proportion to population or to the volume of transactions, the principal cause operating to curtail it is the increase of facilities for operating on deposits by cheques, as evidenced by the growing volume of business in the Banks Exchange Settlement Office. A secondary cause of the restricted note currency is apparent in the note tax which is imposed, being a composition at the rate of 2 per cent. per annum, by which the State benefited to the extent of £33,900 for the year 1909-10.

From previous tables it is seen that of the fifteen banks operating in New South Wales, three have no note issue whatever, being simply banks of discount and deposit; while in the remainder the note circulation in proportion to the deposit liability is only 3 per cent. — almost a negligible quantity in the total liabilities. Against this note liability no special reserve is required by law, but the issue is many times covered by the reserves.

The following figures will show the decline in the note circulation:—

Year.	Circulation in—		Total.	Per capita.
	Notes.	Bills.		
	£	£	£	£
1860	949,849	62,505	1,012,354	2·95
1870	695,356	50,515	745,881	1·52
1880	1,260,772	51,698	1,312,470	1·80
1890	1,557,805	127,442	1,685,247	1·53
1900	1,447,641	209,905	1,657,546	1·21
1909	1,758,913	315,916	2,074,829	1·26

The present purpose of the note issue is mainly to obviate the necessity for keeping gold reserves in branch banks, and the circulation is confined practically to country districts in which the note of the bank probably inspires more confidence than the cheque of an individual. The lowest value for which notes are issued is £1.

The Australian Notes Act passed in 1910 by the Federal Parliament authorizes the Commonwealth Treasurer to issue notes, which will be legal tender throughout the Commonwealth, payable in gold only at the seat of Federal Government. The Australian notes may be issued in any of the following denominations:—10s., £1, £5, £10, and any multiple of £10. Against the note liability the Treasurer must hold in gold coin a reserve of not less than one-fourth of the notes in circulation up to £7,000,000, and a sum equal to the amount of notes issued in excess of £7,000,000.

The Australian Notes Act prohibits the circulation of notes issued by any State after six months from the commencement of the Act, and the issue of notes by any Bank is restricted by the Bank Notes Tax Act, which imposes a tax of 10 per cent. per annum on such notes.

ADVANCES BY BANKS.

Under the head of advances are included bills and promissory notes discounted, cash credits, and miscellaneous debts. The bulk of the advances are secured by the mortgage of real estate or by the depositing of deeds over which the lending institution acquires a lien; but the extent of the discounting of trade bills is not apparent. The most interesting summary that can be made is that which the following table supplies:—

Year.	Advances.	Ratio of Advances to Deposits.	Advances per cent. of Total Assets.	Amount of Advances per Inhabitant.
	£	per cent.		£ s. d.
1860	5,780,700	111·9	71·8	16 17 6
1870	7,814,116	127·9	79·2	15 18 11
1880	17,210,205	96·2	79·5	23 12 4
1890	43,009,559	121·3	84·7	39 0 8
1900	34,385,388	101·2	79·9	25 4 0
1905	32,447,659	87·5	74·3	21 18 11
1906	34,415,596	87·3	77·4	22 9 7
1907	37,244,216	87·1	75·5	23 13 6
1908	39,213,472	89·3	76·2	24 8 7
1909	38,485,738	83·4	74·1	23 7 9

The utility of the banking system may be realised readily from the foregoing statement; the shrinkage or expansion of the ratio of advances to total assets clearly reflects the variations in financial transactions due to good or bad seasons, and fluctuations in the money market.

DEPOSITS IN BANKS.

The total amount of money deposited with the fifteen banks operating in New South Wales during 1909 was, approximately, £187,374,163, and of this sum £46,124,997 were received locally. The excess of the total over local deposits was employed in the various countries to which the banks' business extended, some of course being used in New South Wales; but, from the very nature of the transactions of the banks, it is possible only to surmise the amount so used. Dealing only with local deposits, the following statement shows the average amount of money deposited at various periods commencing with 1860; the distinction between interest-bearing deposits and those at call was first made in 1875:—

Year.	Deposits bearing Interest.	Deposits not bearing Interest.	Total Deposits.	Proportion of Deposits not bearing Interest to Total Deposits.	Proportion of Deposits to Liability (to Public).
	£	£	£	per cent.	per cent.
1860	.....	.....	5,164,011	...	79·7
1870	.....	.....	6,107,999	...	84·8
1880	11,948,383	5,934,641	17,883,024	33·2	91·8
1890	25,395,600	10,064,518	35,460,118	28·4	95·2
1900	20,009,031	12,224,510	32,233,591	37·9	94·9
1905	22,211,627	14,859,427	37,071,054	40·1	95·4
1906	22,585,802	16,834,690	39,420,492	42·7	95·2
1907	24,034,857	18,729,709	42,764,566	43·8	95·2
1908	25,958,298	17,951,589	43,909,887	40·9	95·2
1909	25,926,547	20,198,450	46,124,997	43·8	95·4

The deposits reached their highest level in December, 1909, when there was entrusted to the banks an average total of £46,124,997. In the year 1891 the deposits amounted to £35,659,690, but in subsequent years fully five millions were withdrawn, the reduction being entirely in interest-bearing deposits. Since 1894 there has been a tendency to restrict fixed deposits, and to extend the operations in current accounts, which have increased by over eight millions during the interval; the total deposits have increased to over £46,000,000, while fixed deposits now show a slight increase on the high-water mark of 1890.

The interest offered for fixed deposits is 3 per cent. for sums deposited for twelve months; for six months' deposits the interest allowed is at the rate of $1\frac{1}{2}$ per cent., occasionally rising to 2 per cent. The practice of allowing interest on money fixed for less than six months was discontinued in May, 1894. The rates quoted are much the lowest that have been offered since banks were first opened for business, and the strength of deposits shows that money equal to requirements is freely offered. The following is a statement of the average rates for twelve months' deposits from 1860 onwards.

The figures do not include interest payable on deferred deposits by reconstructed banks:—

Year.	Bank Interest on Deposits for twelve months.	Year.	Bank Interest on Deposits for twelve months.
	per cent.		per cent.
1860	5	1905	3 to 3½
1870	5	1906	3 to 3½
1880	5	1907	3
1890	4½	1908	3
1900	3	1909	3

Under normal conditions the annual rate of interest paid on fixed deposits is uniform for all banks, and discount and overdraft rates should move down with the interest rates paid to depositors; it is evident, from a consideration of the profit and loss accounts of the various institutions, that the business of the banks is in a healthy condition.

The rates for overdrafts and discounts during the years from 1890 to 1909 were as follow:—

Year.	Overdraft Rates.	Discount Rates.	
		Bills at 3 months.	Bills over 3 months.
	per cent.	per cent.	per cent.
1890	9	7	8
1895	7 to 8	6 to 6½	7
1899	6 ,, 7	5 ,, 5½	5½ to 6½
1900	6 ,, 7	5 ,, 5½	5½ ,, 6½
1905	6 ,, 7½	5½ ,, 6	6 ,, 6½
1906	6 ,, 7½	5½ ,, 6	6 ,, 6½
1907	6 ,, 8	5 ,, 6	6 ,, 7
1908	6 ,, 8	5 ,, 6	6 ,, 7
1909	6 ,, 7½	5 ,, 6	6 ,, 7

The bank exchange rate on London, at sixty days' sight, averages about 1 per cent., but is subject to some fluctuation. In May, 1893, it was 3½ per cent., the banks at that date requiring all their available assets. The rates from 1890 to 1909 were:—

Year.	Exchange rate on London at 60 days' sight.	
	Buying.	Selling.
	per cent.	per cent.
1890	99¾ to 100	100¾ to 101¾
1895	99½ ,, 99¾	100¾ ,, 100¾
1900	98¾ ,, 99½	100¼ ,, 100¾
1905	99¼ ,, 99½	100¾ ,, 100¾
1906	99¼ ,, 99½	100¾ ,, 100¾
1907	98¾ ,, 99¾	99¾ ,, 100
1908	98¾ ,, 99¾	99¾ ,, 100¼
1909	98¾ ,, 99¼	99¾ ,, 100¾

PROFITS OF BANKS.

The results of the transactions of each bank for the latest period for which information is available, are given in the following table. With the exception of the Bank of New Zealand, the English, Scottish, and Australian Bank (Limited), the London Bank of Australia (Limited), and the Comptoir National d'Escompte de Paris, for which the figures relate to twelve months' operations, the amounts given cover a period of six months. The dates of the balance-sheets are as shown previously:—

Bank.	Class of Shares.	Amount brought forward.	Net Profits.	Dividend Paid.		Amount transferred to Reserve Fund, &c.	Amount carried forward.
				Rate per cent. per annum.	Amount.		
Bank of New South Wales	Ordinary ..	£ 45,705	£ 183,938	10	£ 125,000	£ 55,000	£ 49,643
Commercial Banking Company of Sydney (Limited)	Ordinary ..	32,610	117,001	10	75,000	40,000	34,611
Australian Bank of Commerce (Limited)	Ordinary ..	Nil.	11,670	3	8,441	Nil.	3,229
City Bank of Sydney	Ordinary ..	2,096	9,063	3½	7,000	2,000	2,159
Commercial Bank of Australia (Ltd.)	Preferential	7,473	55,603	3	31,700	27,000	3,716
	Ordinary ..						
National Bank of Australasia (Limited)	Preferential	7,419	67,564	6	44,916	22,000	8,037
	Ordinary ..						
Royal Bank of Australia (Limited) ..	Ordinary ..	4,570	18,549	7	10,500	7,500	5,119
Queensland National Bank (Limited)	Ordinary ..	Nil.	45,626	..	20,000	25,626	
Bank of North Queensland (Limited)	Ordinary ..	3,775	4,717	5	2,500	5,168	824
Bank of New Zealand	Preferential	60,998	259,386	8½	106,250	150,000	64,134
	Ordinary ..			12½			
Bank of Australasia	Ordinary ..	16,907	177,565	12	112,000	65,000	17,472
				2			
Union Bank of Australia (Limited) ..	Ordinary ..	38,879	136,049	10	105,000	30,000	39,928
				2			
London Bank of Australia (Limited)	Preferential	21,567	42,971	5½	27,858	15,000	21,680
	Ordinary ..			5			
English, Scottish, and Australian Bank (Limited)	Ordinary ..	26,095	75,767	6	43,939	27,788	30,135
Comptoir National d'Escompte de Paris	Ordinary ..	45,087	571,447	6½	517,716	44,104	54,714

In the matter of management expenses the banks are reticent, and the net profits are, therefore, the only data on which a comparative statement can be based; the ratio of profits to paid-up capital, reserves, and fixed deposits for the years 1908-9 and 1909-10, in comparison, will be found in the subjoined statement:—

Bank.	Net Profits for twelve months, 1908-9.	Ratio of Net Profit to Paid-up Capital, Reserves and Deposits.	
		1908-9.	1909-10.
	£	per cent.	per cent.
Bank of New South Wales	361,300	1.13	1.06
Commercial Banking Co. of Sydney (Limited)	233,498	1.10	1.10
*Australian Bank of Commerce (Limited)	11,670	..	.23
City Bank of Sydney	16,151	.87	.90
Commercial Bank of Australia (Limited)	111,306	1.37	1.64
National Bank of Australasia (Limited)	133,954	1.14	1.17
Royal Bank of Australia	33,523	..	.85
Queensland National Bank (Limited)	9,058	1.05	1.04
Bank of North Queensland (Limited)	9,359	1.19	1.18
Bank of New Zealand	259,386	2.06	1.48
Bank of Australasia	351,676	2.17	1.80
Union Bank of Australia (Limited)	271,923	1.29	1.13
London Bank of Australia (Limited)	42,971	.70	.84
English, Scottish, and Australian Bank (Limited)	75,767	1.08	1.01
Comptoir National d'Escompte de Paris	571,447	.90	1.07

* Six months' operations only.

In the above table the net profits are exclusive of amounts transferred to Reserve and Contingency Funds.

WORKING EXPENSES.

The cost of conducting banking institutions in Australia is undoubtedly high. This is partly due to the wide and sparsely-populated area over which operations extend, and partly to the class of business in which banks are engaged. The expenses of management of the four local banks and those of the Comptoir National d'Escompte de Paris are not disclosed even to their shareholders, so that reference to the cost of banking business is incomplete.

The following statement may be taken as approximately correct:—

Total assets	£250,201,000
Capital and Reserve Funds and Deposits	219,453,594
Net earnings	2,581,989

Compared with the total assets, the net earnings represent 1.03 per cent., and compared with the banks' available resources—i.e., capital and reserved profits and deposits—1.18 per cent.

The amount of interest paid on deposits is not available.

The following table affords a comparison of the working of New South Wales banks with the joint stock banks in the United Kingdom which publish profit and loss accounts. The figures relate to the year 1909:—

Banks in—	No. of Banks.	Capital and Reserves.			Total Deposits.	Total Advances.	Percentage of Advances to Deposits.
		Paid-up Capital.	Reserves and Undivided Profits.	Total.			
England ..	50	£ 63,677,000	£ 38,853,000	£ 102,530,000	£ 731,964,000	£ 455,873,000	61.86
Scotland ..	10	9,241,000	9,212,000	18,453,000	105,815,000	69,487,000	57.14
Ireland ..	9	7,309,000	4,624,000	11,933,000	63,599,000	43,173,000	71.35
N. S. Wales..	15	23,062,000	9,018,000	32,080,000	187,374,000	159,237,000	84.98

Most of the banks doing business in this State reduced their working expenses during the years following 1893, mainly by closing unprofitable branches. The number of banks including branches open in New South Wales on 30th June, 1910, was 591. This gives a proportion of one bank to every 2,784 persons. The extension of operations since 1895 is shown in the following figures:—

Year.	Number of Banks and Branches.	Population per Bank.
1895	455	2,774
1900	411	3,320
1905	436	3,431
1910	591	2,784

BANKS' EXCHANGE SETTLEMENT.

The Banks' Exchange Settlement Office, which was established in Sydney on the 18th January, 1894, is not a clearing-house in the accepted meaning of the term, since the exchanges are effected daily at the banks by clerks of each institution; the results of the daily operations being notified to the secretary of the Banks' Exchange Settlement, who establishes the daily credit of each bank with the "pool." The "pool" is placed in the hands of three trustees, and consists of £700,000 in gold, which is deposited in the vaults of three of the banks, and may not be circulated or disturbed. The contributions to the "pool" are according to the volume of the operations of each bank. The secretary notifies each bank daily of the amount of its credit with the "pool,"

and it is not permissible for any balance to remain below 25 per cent. of the fixed contribution. In the event of its credit reaching this margin, the bank is required to make up its deficiency with gold; this payment, however, is not made to the "pool," but to such other banks as may happen to have at their credit with the "pool" a larger sum than is required by the agreement. This arrangement retains intact the £700,000 comprising the "pool."

The growth in the volume of exchanges is shown in the following table:—

Year.	Amount of Exchanges.	Year.	Amount of Exchanges.
	£		£
1895	108,509,860	1905	189,826,381
1900	144,080,314	1906	220,860,512
1901	167,676,707	1907	234,169,822
1902	178,637,708	1908	227,736,243
1903	180,961,406	1909	240,645,737
1904	177,797,335	1910	274,343,666

The transactions of this office have grown steadily since its establishment; the large annual increases during the last six years indicate a remarkable activity in trade due to a succession of good seasons, and to the consequent general prosperity throughout the State.

SAVINGS BANKS.

The savings banks are on a very different footing to ordinary banks of issue and deposit, and are under State control or otherwise safeguarded, so as to ensure public confidence. The institutions classed as savings banks may be divided into two kinds—those which, previous to the federation of the Australian States, were conducted in conjunction with the Post Office, but are now under the control of Commissioners appointed by the State, and those under trustees nominated by the Government. The declared objects of these banks are to encourage thrift, and to provide a safe investment for the funds of charitable institutions, friendly societies, &c. They have become so popular that all classes of the community are represented amongst their depositors.

In both institutions sums over one shilling may be deposited; but, with the exception of the funds of charitable institutions and friendly societies, deposits exceeding £500 do not bear interest on such excess in the Government Savings Bank; and in the Savings Bank of New South Wales, deposits made by any one individual exceeding the sum of £200 do not bear interest on the excess, but interest on the full deposit is allowed on funds of any charitable institution, or of any friendly society. During the year ended 31st December, 1909, the Government Savings Bank allowed 3 per cent., and the Savings Bank of New South Wales 3½ per cent. on balances.

The returns show an enormous development since 1861, although there has been a decline in the amount per depositor since that period; but this is no sign of retrogression, for the large increase in the number of depositors indicates that the less affluent classes of the community are represented in the books of the banks to a greater extent than formerly. The following statement shows the number of depositors and amount of deposits at the end of each year [for the Government Savings Bank since 1880; and since

1860 for the Savings Bank of New South Wales], together with the average amount of deposit per depositor:—

Year ended 31st December.	Government Savings Bank.		Savings Bank of New South Wales.		Total.		Average Amount per Depositor.
	Number of Depositors.	Amount of Deposits.	Number of Depositors.	Amount of Deposits.	Number of Depositors.	Amount of Deposits.	
1860 ...	No. *	£ *	No. 12,027	£ 557,197	No. 12,027	£ 557,197	46 6 7
1870 ...	No. *	£ *	No. 23,570	£ 936,465	No. 23,570	£ 936,465	39 14 7
1880 ...	24,602	586,496	36,929	1,489,360	61,531	2,075,856	33 14 9
1890 ...	83,312	1,875,905	60,514	2,854,564	143,826	4,730,469	32 17 10
1900 ...	198,014	6,045,622	84,629	4,855,760	282,643	10,901,382	38 11 5
1905 ...	‡270,982	‡3,883,651	101,383	5,545,367	372,365	14,429,018	38 15 0
1906 ...	283,401	9,322,923	108,649	5,997,609	392,050	15,320,532	39 1 7
1907 ...	305,265	11,128,495	116,663	6,401,662	421,928	17,530,157	41 10 11
1908 ...	309,982	12,118,772	121,745	6,686,508	431,727	18,805,280	43 11 2
1909 ...	334,381	13,303,421	125,870	6,847,154	460,251	20,150,575	43 15 7

* Not open.

‡ At 30th June, 1906.

At the 31st December, 1909, the liabilities of the Government Savings Bank amounted to £13,391,222, of which £13,303,421 represented deposits, and £1,559 balance of profit and loss account. The reserve fund and other liabilities amounted to £86,242. The investments made on behalf of the bank, and other assets, including accrued interest, were as follows:—

	£
Government Stocks—	
New South Wales	8,705,800
Other States	109,946
Treasury Bills—New South Wales	1,126,949
Deposits at New South Wales Treasury	1,658,475
Debentures—	
Advances to Settlers	695,562
Sydney Municipal Council... ..	180,613
Waverley „ „	49,357
Lithgow „ „	6,040
Fixed Deposits at various Banks	222,672
Mortgage Securities, including accrued interest	351,786
Bank Premises	23,736
Sundry accounts due to Bank	836
Commercial Banking Co. of Sydney, Ltd.	66,113
Cash at Branches, Agencies and in transit	180,390
Balances due from other Saving Banks	5,981
Accounts in Suspense	2,056
Total	£13,391,222

The value of assets per £1 liability was £1 Os. 2d.

The following statement shows the classification of depositors' balances for the year 1909:—

Classification.	Depositors.	Deposits.	Average per Depositor.
	No.	£	£ s. d.
£100 and under	295,341	3,724,221	12 12 2
Over £100 to £200	18 816	2,588,641	137 11 6
„ £200 to £300	8,851	2,107,529	238 2 3
„ £300 to £400	4,860	1,655,179	340 15 5
„ £400 to £500	2,945	1,316,014	446 17 3
„ £500	3,563	1,911,836	535 16 7
Total	334,381	13,303,420	39 15 8

The Savings Bank of New South Wales was originally administered by nine trustees; but under its present constitution the number may be increased, but may not exceed eighteen. The trustees have power to appoint a managing trustee, who, if not already a trustee, becomes so *ex-officio*. The number of trustees at the end of 1909 was thirteen, exclusive of the managing trustee. The funds of this institution are applied to investments of a general nature, such as mortgages, Government and municipal securities, and deposits with banks of issue and the Treasury. The amount invested under each head, including interest accrued, at the close of 1909, was as follows:—

Investment.	Amount.
	£
Mortgages	1,117,168
Government and Municipal Securities	4,548,138
Fixed Deposits in Banks of Issue... ..	1,250,130
“ Working Account ” (Bank of New South Wales)	109,385
Deposit with Colonial Treasurer	101,654
Land and Banking Houses	82,659
Cash received after 31st December, 1909	34,731
Total	£ 7,243,815

The reserve fund, depreciation account, and profit and loss account, on the 31st December, 1909, amounted to £392,975. According to the published statements of this institution, it could pay £1 ls. 1½d. for every £1 liability. The classification of the deposits on the 1st January, 1910, was as follows:—

Classification.	Depositors.	Deposits.	Average per Depositor.		
			£	s.	d.
£20 and under	No. 70,059	£ 283,161	4	0	10
Over £20 and under £50	16,339	525,398	32	3	1
£50 and under £100	11,821	842,091	71	2	10
£100 „ £200	13,149	1,861,420	141	11	3
£200 „ £300	13,721	2,904,952	211	14	4
£300 and upwards	781	430,132	550	14	11
Total	125,870	6,847,154	54	7	11

The following table shows the number of depositors in the savings bank, of the other Australian States, the total amount standing at their credit, and the average amount per depositor.

Country.	Depositors.	Amount of Deposits in Savings Banks.		Average Amount per Depositor.
		No.	£	
New South Wales	460,251	20,150,575	£ s. d. 43 15 8	
Victoria	545,130	14,471,566	26 10 11	
Queensland	100,324	4,921,881	49 1 2	
South Australia	148,718	5,803,301	39 0 5	
Western Australia... ..	71,262	3,052,531	42 13 9	
Tasmania	58,145	1,605,919	27 12 4	
New Zealand	408,770	14,065,410	34 8 2	

REGISTERED COMPANIES.

Land, Investment, and Trading Companies established with the object of making profit and doing general business, may be registered under the Companies Act which was passed in 1874 and amended under the Consolidating Act of 1901. Benefit-Building, Investment, Co-operative, and

Industrial Societies, worked for the mutual benefit and advantage of the subscribing members only, are registered under the Building and Co-operative Societies Act, 1901. Mining Companies in which the shares carry no liability are formed under the No-liability Mining Companies Act of 1896.

The provisions of the Companies Act, and of the Building and Co-operative Societies Act, are so framed that they are applicable to nearly all classes of financial institutions, very few of which are now carried on under special Acts.

The registrations under the Companies Act for the five years ended 1909 were:—

Registrations.	1905.	1906.	1907.	1908.	1909.
New Companies registered	170	189	189	196	251
Companies wound-up	53	67	62	63	63
Amount of fees received £	1,901	2,239	2,302	2,487	3,064

Certain of these companies carry on bank deposit business in addition to their ordinary business, but the number of such companies and the extent of their deposit business is steadily declining, indicating a preference on the part of the public for such institutions, with respect to money on deposit, as make banking their sole business. The number of such deposit companies is ten, and their liabilities, assets, and paid-up capital for the quarter ended June, 1910, were as follows:—

Companies.	Number.	Liabilities (excluding Shareholders).			Assets.			Paid-up Capital.
		Deposits.	Other Liabilities.	Total.	Landed Property.	Other Assets.	Total.	
Investment	8	£ 158,456	£ 131,092	£ 289,548	£ 332,676	£ 336,332	£ 779,008	£ 505,370
Trading	2	56,478	1,490,553	1,547,031	604,568	4,223,424	4,827,992	2,950,000
Total	10	214,934	1,621,645	1,836,579	937,244	4,619,756	5,607,000	3,455,370

BENEFIT BUILDING AND INVESTMENT SOCIETIES.

According to the provisions of the Building and Co-operative Societies Act, 1901, any number of persons may form themselves into a Benefit Building and Investment Society for the purpose of raising money by subscription to enable members to erect or purchase dwellings, &c., the loans for which must be secured to the society by mortgage until the amount of the shares has been fully paid. These institutions are established solely for the benefit and advantage of the subscribing members, and their receipts are confined, as a rule, to the subscriptions. There were, however, 19 institutions in 1909 receiving money on deposit from the general public, the aggregate amount of which was £431,720. At the close of 1909 the Benefit-Building and Investment Societies which had been registered under the Act numbered 195, of which only 75 remained in existence at that date. Of the remainder, some had ceased to exist, being Terminating Societies; others had become Limited Companies under the Companies Act, and consequently ceased to operate under the Building Societies Act; and a large proportion had become defunct.

Returns have been received from 67 institutions, and the liabilities and assets, &c., of these societies at the date of their latest balance-sheets were as follow:—

Societies.	Number.	Liabilities.				Assets.			Profit and Loss Credit.
		Deposits.	Subscriptions and Shares.	Other Liabilities.	Total.	Advances.	Other Assets.	Total.	
		£	£	£	£	£	£	£	£
Starr-Bowkett ..	49	....	254,130	29,313	283,443	264,980	42,941	307,921	24,478
Land, Building, and Investment.	13	431,720	292,598	104,022	828,340	737,004	122,836	859,840	31,500
Total ..	67	431,720	546,728	133,335	1,111,783	1,001,984	165,777	1,167,761	55,978

CO-OPERATIVE TRADING SOCIETIES.

The provisions of the Act relating to Co-operative Societies have been used by the public to a very limited extent, since of 115 societies registered to the end of 1909, only 40 remained in existence. There is, however, evidence of increasing activity in the co-operative movement, as denoted by the number of new societies formed, viz., 5 in 1909, and 29 in the five years 1905-1909. The purposes for which the 40 existing societies were formed are as follows:—General (trading) purposes, 31; produce, 1; bakery, 2; dispensaries, 2; confectionery, 1; timber-cutting, 1; journalism, 1; and butchering, 1.

The workings of the Co-operative Societies during the years 1908 and 1909 will be seen below:—

Liabilities.	1908.		1909.		Assets.	1908.		1909.	
	£	£	£	£		£	£	£	£
Share Capital ...	90,690	97,691	Freeholds ...	45,624	71,254				
Reserves ...	37,676	42,152	Stocks... ..	107,666	117,865				
Other Liabilities ...	48,479	73,140	Other Assets ...	60,895	63,268				
Profits	37,334	39,204							
Total	214,179	252,387	Total	214,179	252,387				

The progress during the year 1909 was eminently satisfactory. Share capital increased by 8 per cent., and reserves by 12 per cent. Freeholds with plant and fixed stock, increased by 56 per cent., and stocks by 9 per cent. The proportion of profits to capital and reserves combined was 32 per cent. in 1907, 29 per cent. in 1908, and 28 per cent. in 1909. Considering the small amount of capital invested, the results obtained were surprisingly good, and afford liberal inducements for the further development of these institutions.

CURRENCY.

The British sovereign is the standard of currency in Australia; the silver and bronze-current being money token. The Australian notes issued by the Federal Treasurer will be legal tender throughout the Commonwealth. The banks make use of bank notes, but these are not legal tender in any State. Gold coins are legal tender to any amount; silver for an amount not exceeding forty shillings; and bronze for one shilling. The standard weight

and fineness of each coin are given in the following statement. The least current weight of a sovereign is 122·5 imperial grains, and of a half-sovereign 61·125 grains:—

Denomination of Coin.		Standard Weight.	Standard Fineness.
		Imperial grains. Troy.	
Gold	{ Sovereign	123·27447	{ Eleven-twelfths fine gold, or decimal fineness 0·91666, and one-twelfth alloy.
	{ Half-sovereign	61·63723	
Silver	{ Crown... ..	436·36363	{ Thirty-seven-fortieths fine silver, or decimal fineness 0·925, and three-fortieths alloy.
	{ Double Florin	349·09090	
	{ Half-crown	218·18181	
	{ Florin	174·54545	
	{ Shilling	87·27272	
	{ Sixpence	43·63636	
	{ Threepence	21·81818	
		Avoirdupois.	
Bronze	{ Penny... ..	145·83333	{ Mixed Metal:—Copper, 95 parts; tin, 4 parts; and zinc, 1 part.
	{ Halfpenny	87·50000	
	{ Farthing	43·75000	

The only coins struck at the Sydney Mint are of gold, though silver and bronze of English coinage are also issued. In 1909 authority was given under the Coinage Act to the Federal Treasurer to issue Australian silver and bronze coins of the following denominations:—Silver: florin, shilling, sixpence, and threepence; and bronze: penny and halfpenny. The dimensions and designs of these coins are determined by the Governor-General by proclamation. By an arrangement with the Imperial authorities the Australian coins are struck in the London Mint.

Standard or sovereign gold has a fineness of 22 carat, and is worth £3 17s. 10½d. per oz.; pure gold, or 24 carat, is worth £4 4s. 11¼d. per oz. The whole of the gold contained in deposits sent to the Sydney Branch of the Royal Mint for melting, assaying, and coining is valued at the rate of £3 17s. 10½d. per oz. standard or sovereign gold.

Standard silver is 0·925 fine. Owing partly to its greatly increased production, and still more to its demonetisation in a large part of Europe, and the restrictions placed upon its free coinage in countries which still have a double standard of coinage, its value has decreased by nearly 58 per cent. since 1875. The average price of standard silver in the London market for various years since that year is given in the annual reports of the Deputy Master of the Royal Mint as follows:—

Year.	Price per standard oz.	Year.	Price per standard oz.	Year.	Price per standard oz.
	d.		d.		d.
1875	56½ ³ / ₈	1900	28 ⁵ / ₁₆	1905	27½ ³ / ₈
1880	52½	1901	27½	1906	30 ⁷ / ₈
1885	48 ⁵ / ₈	1902	24 ³ / ₈	1907	30 ³ / ₁₆
1890	47 ³ / ₄	1903	24 ³ / ₄	1908	24 ³ / ₈
1895	29 ⁵ / ₈	1904	26 ³ / ₈	1909	23½

The fluctuations in its value during 1909 are shown in the following table of average monthly prices:—

Month.	Price per standard oz.	Month.	Price per standard oz.	Month.	Price per standard oz.
January ...	d. 23 $\frac{3}{8}$	May ...	d. 24 $\frac{5}{16}$	September ...	23 $\frac{3}{4}$
February ...	23 $\frac{1}{8}$	June ...	24 $\frac{1}{16}$	October ...	23 $\frac{1}{2}$
March ...	23 $\frac{1}{4}$	July ...	23 $\frac{1}{2}$	November ...	23 $\frac{3}{8}$
April ...	23 $\frac{1}{16}$	August ...	23 $\frac{9}{16}$	December ...	24

The nominal value of one pound (avoirdupois) of bronze coined into pence is 4s., and into halfpence or farthings 3s. 4d.

The Sydney Branch of the Royal Mint was opened on the 14th May, 1855, and the weight of gold sent for coinage to the 31st December, 1909, was 33,704,622 oz., valued at £124,486,009. Of this quantity New South Wales produced 11,153,227 oz., of the value of £41,498,058, the amount from each source being:—

Where produced.	Weight.	Value.
	oz.	£
New South Wales ...	11,153,227	41,498,058
Victoria ...	1,444,857	5,931,561
Queensland ...	16,012,045	56,846,025
South Australia ...	91,871	318,064
Tasmania ...	136,252	478,423
New Zealand ...	4,480,329	17,943,950
Other Countries ...	74,702	261,657
Old Coin, &c. ...	311,339	1,208,271
Total ...	33,704,622	124,486,009

Nearly the whole of the gold won in New South Wales and Queensland, and also a proportion of the produce of the other States and New Zealand, is received at the Sydney Mint for coinage. The total value of the gold raised in Australasia to the end of 1909 amounted to £581,504,658, of which £124,486,009, or 21.41 per cent., passed through the Mint of this State. The value of gold coin and bullion issued up to the end of 1909 was £124,257,373, of which £117,924,500 worth was coin, the value of sovereigns and half-sovereigns being:—

Year.	Sovereigns.	Half-sovereigns.	Total.
	£	£	£
1855 to 1898	83,831,500	2,672,500	86,504,000
1899	3,259,000	65,000	3,324,000
1900	3,586,000	130,000	3,716,000
1901	3,012,000	.....	3,012,000
1902	2,813,000	42,000	2,855,000
1903	2,806,000	115,500	2,921,500
1904	2,986,000	.....	2,986,000
1905	2,778,000	.....	2,778,000
1906	2,792,000	154,000	2,946,000
1907	2,539,000	.....	2,539,000
1908	2,017,000	269,000	2,286,000
1909	2,057,000	.....	2,057,000
Total ... £	114,476,500	3,448,000	117,924,500

The first issue of bronze from the Sydney Mint took place in 1868, but it was not until 1879 that silver coin was issued, the values of each to the end of the year 1909 being—bronze, £97,450, and silver, £1,227,400. The value of the coins issued is shown in the following table:—

Year.	Silver Coin.							Bronze Coin.	
	Crowns and Double Florins.	Half-crowns.	Florins.	Shillings.	Six-pences.	Three-pences.	Total.		
	£	£	£	£	£	£	£	£	
1868 to 1898	1,300	148,400	107,600	137,000	48,800	73,300	516,400	49,380	
1899	.....	19,200	17,000	10,000	8,000	7,600	61,800	2,830
1900	.....	50,000	40,000	25,000	13,000	11,400	139,400	4,100
1901	.....	25,000	23,000	24,000	5,000	6,400	83,400	5,500
1902	.....	200	1,000	1,000	4,800	4,800	11,800	3,000
1903	.....	2,400	4,200	2,800	1,400	5,200	16,000	3,720
1904	.....	23,600	6,800	200	5,600	7,000	43,200	2,320
1905	.....	3,800	.....	.....	3,600	3,400	10,800	2,000
1906	.....	35,000	15,000	12,000	8,600	8,000	78,600	4,000
1907	.....	63,000	55,000	30,000	14,800	10,000	177,800	10,000
1908	.....	7,000	22,600	20,000	7,000	10,800	67,400	5,600
1909	.....	5,000	2,400	6,000	3,200	4,200	20,800	5,000
Total	... £	1,300	387,600	294,600	268,000	123,800	152,100	1,227,400	97,450

It has already been stated that standard silver consists of .925 pure metal and .075 alloy. Standard silver of the weight of one pound troy is coined into sixty-six shillings—that is to say, 11.1 oz. of fine metal produces coin to the value of £3 6s. The average price of silver during 1909 was 1s. 11 $\frac{1}{16}$ d. per oz., which for 11.1 oz. gives the sum of £1 1s. 10 $\frac{1}{16}$ d.; and as the difference between the nominal value of silver and the average price per standard oz. represents the seigniorage or gross profit, it will be seen that after full allowance had been made for mint expenses and the loss incurred by the purchase of worn silver at its nominal value, the British Government has derived a fairly large profit from the silver coin issued in the Commonwealth. The supply of British silver coins to the Commonwealth ceased in 1909, and is being replaced by the Australian coinage, the profits accruing to the Federal Treasurer.

The gold bullion issued by the Mint is partly pure gold in small quantities for the use of jewellers, chemists, and others, but the bulk consists of small fine gold bars for export to India. The amount of gold bullion issued during 1909 was valued at £241,796, and the total to the end of 1909 at £6,332,873.

Worn gold coins have been received at the Mint for recoinage since 1876, and silver coins since 1873. The nominal value of gold coin withdrawn from circulation during 1909 was £51,257, and for the whole period since the opening of the Mint, £1,026,569.

Silver coin of the value of £7,076 was withdrawn during 1909. The aggregate value of silver coin withdrawn was £264,359, and this was forwarded to London for recoinage.

The expense of the Sydney Branch of the Royal Mint is borne by the State Government, £15,000 being set apart annually for that purpose. Special votes for limited amounts for construction, repairs, and furniture have been passed occasionally.

The receipts of the Mint, which are paid into the Consolidated Revenue, comprise charges for coining gold, fees for assays, &c., and profits on sale

of silver. The Mint pays for all silver contained in deposits in excess of 8 per cent. of the gross weight at a rate fixed by the Deputy Master from time to time. On the 12th May, 1902, the rate was proclaimed at 1s. 6d. per oz. fine, and this is still ruling.

From the 1st January, 1901, amended regulations have been in force for the coinage of gold, by which the charges are considerably reduced. No distinction is made between gold raised in New South Wales and that raised in any of the other States.

The total receipts of the Mint since its establishment in 1855 are shown below:—

Year.	Charges on Gold.	Profit on Sale of Silver.	Fees for Assays and Crushings, and Proceeds of Sweep.	Total Mint Receipts (paid into Consolidated Revenue).
	£	£	£	£
1855 to 1898	468,996	94,431	79,932	643,359
1899	7,289	5,391	2,930	15,610
1900	7,538	7,855	3,464	18,857
1901	9,623	6,572	2,016	18,211
1902	8,108	5,254	2,034	15,396
1903	8,793	8,499	2,116	19,408
1904	11,145	8,869	1,725	21,739
1905	10,158	8,196	1,068	19,422
1906	9,083	7,846	2,565	19,494
1907	6,836	4,884	2,136	13,856
1908	6,484	3,440	922	10,846
1909	6,149	4,141	698	10,988
Total £	560,202	165,378	101,606	827,186

LIFE ASSURANCE.

The particulars relating to life assurance institutions are obtained from the reports published and circulated by the companies themselves, not from official returns, and, unfortunately, such statements do not sufficiently separate local from foreign business. During 1909 there were eighteen institutions operating in the State. Of these, seven were local, five had their head offices in Victoria, one in New Zealand, one in the United Kingdom, one in Canada, and three in the United States. The volume of the local business of those last mentioned, proportionately to the total, is, however, so small that returns relating to the American offices have been omitted from the following comparisons, except where their local business can be stated. Several companies, uniting life with other classes of insurance, have local branches or agencies, but their transactions in life risks in the State are unimportant.

Of the seven local institutions the Australian Mutual Provident Society is incorporated under a special Act; and the following are registered under the Companies Act—the City Mutual Life Assurance Society (Limited) in 1879, the People's Prudential Assurance Company (Limited) in 1896, the Standard Life Association (Limited) in 1899, the Phoenix Mutual Provident Society (Limited) in 1902, and the Mutual Life and Citizens' Assurance Co. (Limited), formed by amalgamation, in January, 1908.

The Phoenix Mutual Provident Society (Limited) transacts only Industrial business.

The ordinary life assurance business of the institutions operating in the State, in comparison with their Australasian business, may be summarised thus:—

	Number of Societies.	Policies in Force.	Amount Assured.	Bonus Additions.	Total Assurance and Bonuses.	Annual Premium Income.
		No.	£	£	£	£
Australasian Business ..	16	558,587	133,404,200	16,391,889	119,796,089	4,548,586
New South Wales Business	16	147,632	34,446,756	4,325,975	38,772,731	1,166,697

The local business thus represents 26·4 per cent of the policies in force, and 25·9 per cent. of the total sum assured in Australasia by the companies operating in the State. The Provident Life Assurance Company has been excluded from this table as the ordinary business is included with the industrial branch.

The results of the latest actuarial investigation of each society are given in detail in the Statistical Register.

Ten of the companies are mutual, and the remainder are "mixed"—that is, proprietary companies, dividing profits with the policy-holders. Eight of the institutions also transact industrial business, two, accident and invalidity insurance, and one company, the Australian Alliance Assurance Company, conducts fire, marine, and guarantee insurance; and the Liverpool, London, and Globe, fire insurance. Most of the offices have representatives in all the Commonwealth States and New Zealand, four institutions have extended their operations to London, and two also to South Africa.

The following table gives the total business in force in the ordinary branch, in detail, for each society at the close of 1909. The item "Sums assured" means the sums payable, exclusive of reversionary bonuses, at death, or on attaining a certain age, or at death before that age:—

Institution.	Policies in Force.	Sums Assured.	Bonus Additions.	Total, excluding Annuities.	Annual Premium Income.
	No.	£	£	£	£
<i>Head Office in New South Wales.</i>					
Australian Mutual Provident Society ..	236,762	65,750,786	13,394,155	79,054,941	2,134,196
Mutual Life and Citizens' Assurance Company (Ltd.)	83,612	14,327,737	£34,043	15,661,780	535,692
City Mutual Life Assurance Society (Ltd.) ..	16,449	2,194,888	88,099	2,282,987	90,748
The Standard Life Association (Ltd.) ..	4,504	549,034	2,929	552,033	25,294
Australian Metropolitan Life Assurance Company (Ltd.) ..	2,304	207,846	2,116	209,962	9,531
People's Prudential Assurance Company (Ltd.) ..	2,475	122,293	1,059	123,352	6,045
<i>Head Office in Victoria.</i>					
Australian Alliance Assurance Company ..	556	124,336	16,168	200,504	4,988
National Mutual Life Association of Australasia (Ltd.) ..	88,317	21,569,055	1,436,707	23,005,762	739,805
*Australian Widows' Fund Life Assurance Society (Ltd.) ..	27,521	5,911,000	336,899	6,247,908	211,963
Colonial Mutual Life Assurance Society (Ltd.) ..	39,765	10,842,378	288,343	11,130,721	364,708
†Australasian Temperance and General Mutual Life Assurance Society (Ltd.) ..	36,501	3,733,684	62,476	3,801,160	143,239
<i>Head Office in Canada.</i>					
††Independent Order of Foresters ..	....	....	....	....	....
<i>Head Office in United Kingdom.</i>					
††Liverpool, London, and Globe Insurance Company	411	203,791	§	203,791	5,865
<i>Head Office in United States.</i>					
‡Equitable Life Assurance Society of the United States ..	8,496	3,084,646	18,825	3,103,471	124,818
‡ Mutual Life Insurance Company of New York ..	4,238	1,669,522	§	1,669,522	56,022
‡ New York Life Insurance Company ..	6,676	2,543,195	||	2,543,195	95,622

* 31st October, 1909.

† 30th September, 1909.

‡ Australian business only.

§ Information not available.

|| Included in previous column.

†† No information—Company wound up.

The business in force at the end of 1909 in the State of New South Wales only, under similar headings to the preceding table, is given below:—

Institution.	Policies in Force, exclusive of Annuities.	Amount Assured, exclusive of Bonuses.	Bonus Additions.	Total.	Annual Premium Income.
	No.	£	£	£	£
Australian Mutual Provident Society	67,422	19,382,088	3,925,665	23,307,753	625,231
Mutual Life and Citizens Assurance Company (Ltd.)	23,594	4,087,717	248,900	4,336,617	143,225
City Mutual Life Assurance Society (Ltd.)	8,410	1,091,452	‡	1,091,452	††45,000
Standard Life Association (Ltd.)	2,510	277,386	1,965	279,351	12,666
Australian Alliance Assurance Company	5	1,500	91	1,591	43
National Mutual Life Association of Australasia (Ltd.)	14,572	3,073,022	‡	3,073,022	107,435
*Australian Widows' Fund Life Assurance Society (Ltd.)	7,606	1,719,403	100,527	1,819,930	60,744
Colonial Mutual Life Assurance Society (Ltd.)	5,330	1,069,284	31,009	1,100,293	37,701
†Australasian Temperance and General Mutual Life Assurance Society (Ltd.)	7,932	800,317	11,182	811,499	31,090
Australian Metropolitan Life Assurance Company (Ltd.)	1,163	105,998	927	106,925	4,757
Equitable Life Assurance Society of the United States	1,841	716,125	4,650	720,775	23,189
Mutual Life Insurance Company of New York	2,279	1,015,933	‡	1,015,933	33,439
New York Life Insurance Company	2,328	911,677	§	911,677	33,770
Liverpool and London and Globe Insurance Company	165	72,561	‡	72,561	2,362
**Independent Order of Foresters	.....	.....	.....	.....	.....
People's Prudential Assurance Co., (Ltd.)	2,475	122,293	1,059	123,352	6,045
Total	147,632	34,446,756	4,325,975	38,772,731	1,166,697

* 31st October, 1909.

† 30th September, 1909.

‡ Information not available.

§ Included in previous column. ** No information—Company wound up. †† Estimated.

The following table gives a summary of the new business completed in each of the past ten years by the Australian offices represented in New South Wales. The assurance and endowment policies (ordinary branch) only are considered, as the annuity transactions are unimportant:—

Year.	New Policies.	Amount Assured.		Annual Premiums.	
		Total.	Per Policy.	Total.	Per £100 of Assurance.
	No.	£	£	£	£ s. d.
1900	42,855	9,237,454	216	321,172	3 9 6
1901	43,004	9,069,130	211	323,086	3 12 4
1902	43,865	9,164,636	209	331,627	3 13 0
1903	44,504	9,624,405	216	349,410	3 12 7
1904	48,303	10,238,366	212	372,133	3 12 8
1905	49,736	10,731,763	216	398,565	3 14 3
1906	54,843	12,105,063	221	440,466	3 12 9
1907	60,716	13,143,741	216	474,069	3 12 2
1908	67,033	13,646,727	204	484,223	3 11 0
1909	74,193	13,965,842	188	490,210	3 10 2

The average sum assured was £188 in 1909, compared with £216 in 1900, while the annual premium for £100 has increased. It would seem from these two facts that the proportion of policies for large amounts has diminished, while the increase in the premium is explained by the

growth of the endowment-assurance business. At the present time, about 50 per cent. of the total assurance business is of this description, and it is evident that the combination of investment with insurance thus afforded has obtained a strong hold on the assuring public. The average sum assured per endowment policy is below that of the whole-life policies, while the average annual premium is higher, as may be expected from the nature of the contract. The new assurances effected during the year, less the void business or discontinuances, represent the annual additions to the sums assured; this is shown in the following comparison for the ten years ended 1909:—

Year.	New Assurances.	Void Business.	Net yearly increase to sums assured.
	£	£	£
1900	9,237,454	5,673,224	3,564,230
1901	9,069,130	5,712,665	3,356,465
1902	9,164,636	5,804,255	3,360,381
1903	9,624,405	6,007,494	3,616,911
1904	10,238,366	6,364,307	3,874,059
1905	10,731,768	7,139,977	3,591,791
1906	12,105,063	8,251,766	3,853,297
1907	13,143,741	6,268,404	6,875,337
1908	13,646,727	8,059,919	5,586,808
1909	13,965,842	8,226,347	5,739,495

The receipts of the societies are represented chiefly by the collections from premiums on policies and by the interest arising from investments of the accumulated funds; the payments on account of policies matured and surrendered, cash bonuses, and expenses of management constitute the bulk of the disbursements.

The excess of receipts over expenditure represents the annual additions to the reserves. The general direction of business of the Australasian societies is shown in the following table:—

Year.	No. of Societies.	Policies in Force.	Receipts.	Expenditure.	Excess.	Excess per Policy.
			£	£	£	£
1895	10	268,242	3,392,423	2,334,481	1,057,942	3.94
1900	11	331,868	4,093,376	2,648,303	1,445,073	4.35
1905	14	†756,555	5,437,589	3,834,272	1,603,317	2.12
1906	14	†776,970	5,780,943	3,959,541	1,821,402	2.31
1907	14	†857,364	6,143,067	4,070,350	2,072,717	2.42
1908	13	†915,452	6,376,051	4,323,264	2,052,787	2.24
1909	13	†972,467	6,947,941	4,550,195	2,397,746	2.46

† Includes Industrial business.

The aggregate receipts and disbursements for the thirteen institutions for 1909 were as follow, ordinary, industrial, and accident and invalidity branches being included:—

Receipts.		Expenditure.	
	£		£
Premiums—		Claims	2,711,101
New	661,597	Surrenders	516,459
Renewal	*4,213,833	Annuities	90,205
Consideration for Annuities	127,987	Cash Bonuses and Dividends	94,523
Interest	1,877,593	Expenses	1,022,932
Other Receipts (Rents, &c.)	66,931	Amount written off to Depreciation, Reserves, &c.	114,945
Total	£ 6,947,941	Total	£ 4,550,195

* Includes New Industrial, and Accident and Invalidity premiums.

The additions to the funds have shown a considerable increase. The amount of funds and the interest received thereon were as follow:—

Year.	Accumulated Funds.		Interest.	
	Additions during year.	Total Amount.	Amount received.	Average Rate realised.
	£	£	£	per cent.
1890	1,404,215	14,580,210	827,909	5·97
1895	1,037,942	20,438,224	1,037,477	5·21
1900	1,445,073	26,491,025	1,161,696	4·51
1905	1,603,317	34,915,842	1,527,690	4·48
1906	1,821,402	37,486,144	1,565,611	4·32
1907	2,072,717	39,558,861	1,679,440	4·36
1908	2,052,787	41,611,648	1,764,845	4·24
1909	2,397,746	43,226,872	1,877,593	4·47

The decrease in earning power over the period reviewed is noticeable, but comparison with the bank rate of interest on fixed deposits, given on a previous page, shows that diminished rates are general, and that the fall in interest earned by the insurance companies is in steady proportion to the general decline.

EXPENSES OF MANAGEMENT.

The expenses of management for 1909 in the aggregate represent 14·72 per cent. of total receipts, or 22·48 per cent. of total expenditure. The ratio between management expenses and premium income must necessarily vary with the volume of new business transacted and the age of the society, quite apart from the intensity of competition for the new business. The following figures show the cost of management per policy and per cent. of premium income and gross income:—

Year.	Management Expenses.	Premium Income.	Gross Receipts.	No. of Policies.	Management Expenses.		
					Per Policy.	Per cent. of—	
						Premium Income.	Gross Receipts.
	£	£	£	No.	£		
1895	438,524	2,380,167	3,392,423	268,242	1·635	18·42	12·93
1900	565,380	2,799,512	4,093,376	331,868	1·708	20·19	13·81
1905	†858,741	3,500,448	5,437,589	756,585	1·130	24·53	15·79
1906	†878,299	3,840,504	5,780,943	776,970	1·133	22·87	15·19
1907	†941,695	4,330,701	6,143,067	857,364	1·098	21·74	15·33
1908	†992,771	4,554,211	6,376,051	915,452	1·084	21·80	15·57
1909	†1,022,932	4,788,506	†6,947,941	972,467	1·052	21·36	14·72

† Includes Industrial business. † Includes Industrial and Accident and Invalidity business.

ASSETS AND LIABILITIES OF ASSURANCE COMPANIES.

The aggregate assets and liabilities are shown in the subjoined table:—

Year.	No. of Societies.	Liabilities.			Assets.		
		Paid-up Capital and Accumulated Funds.	Other Liabilities.	Total.	Loans on Mortgages and on Policies.	Securities, Freehold Property, &c.	Total.
		£	£	£	£	£	£
1895	10	21,497,059	.....	21,497,059	15,600,229	5,896,830	21,497,059
1900	11	27,471,223	.....	27,471,223	19,013,579	8,457,644	27,471,223
1905	14	35,867,362	.....	35,867,362	22,072,061	13,795,301	35,867,362
1906	14	37,486,144	88,272	37,574,416	24,618,651	12,955,765	37,574,416
1907	14	39,015,198	638,889	39,654,087	25,710,088	13,943,999	39,654,087
1908	13	40,710,897	1,035,323	41,746,220	27,071,098	14,675,122	41,746,220
1909	13	43,226,872	777,556	44,004,428	28,642,726	15,361,702	44,004,428

About 65 per cent. of the total assets are represented by loans on mortgage, and on the policies of the societies. In former years insurance companies adhered almost entirely to these forms of investment, but recently attention has been given to Government securities, loans to municipalities, and investments in shares; also considerable sums are deposited with the banks, or sunk in freehold and leasehold property. Investments on personal security are unusual in Australasia, and the advances are generally combined with life policies. In some of the States the companies are obliged by law to deposit certain sums with the Treasury as a guarantee of good faith, and the amount so lodged is included in their balance-sheets, under the head of Government securities or of deposits. The ratio of loans on mortgage for policies to total liabilities over the years quoted in the previous table is as follows:—

1895	...	...	72·57	per cent.
1900	...	...	69·21	„
1905	...	...	61·54	„
1906	...	...	65·52	„
1907	...	...	64·83	„
1908	...	...	64·85	„
1909	...	...	65·09	„

ASSURANCE IN VARIOUS COUNTRIES.

The average amount assured per policy for each State, and for New Zealand, the United Kingdom, Canada, and the United States, is given in the following table. The figures relate to the ordinary branch only, and in some instances are probably somewhat overstated, as all the companies do not show complete returns of the business in each State, but the results may be taken as a fair estimate. The Australasian business of the American institutions, excluded from the previous returns, has been included for the purpose of establishing the Australian averages shown herewith:—

Country.	Average sum assured per Policy.
	£
Commonwealth of Australia	212
New South Wales	233
Victoria	216
Queensland	202
South Australia	216
Western Australia	165
Tasmania	161
New Zealand	246
United Kingdom	299
United States	490
Canada	176

The average amount of assurance per head of population was, in Australasia, £24; in Canada, £21; in the United Kingdom, £18; and in the United States, £28; and the average number of policies per thousand of population was, in Australasia, 102; in Canada, 123; in the United Kingdom, 60; and in the United States, 71.

The average policy is scarcely a fair measure of thrift, as the growth of the industrial business will extend the area covered, while steadily reducing the amount of the policy; and furthermore, in these States mutual assurance is the rule, and members of the various societies have acquired large bonus additions.

INDUSTRIAL ASSURANCE.

In addition to the ordinary life transactions, a large industrial business has grown up during recent years. The policies in this class are usually for small amounts, and the premiums, in most cases, are payable weekly or monthly. The assurances may be effected on the lives of infants and adults, and the introduction of this class of business has proved of great benefit to the industrial population.

Six of the Australasian companies combine industrial with ordinary business, while two limit their operations to industrial and medical benefit transactions. In addition the Colonial Mutual Life Assurance Society (Ltd.), established an industrial branch during 1909. The balance-sheets of these companies, however, do not admit of a satisfactory comparison of the business transacted, as the two branches are not always treated separately. For the year 1909 the total and local business of the eight companies showing transactions in the industrial branch, are contrasted in the following table:—

Institution.	Total Business.			Local Business.		
	Policies in Force.	Amount Assured.	Annual Premium Income.	Policies in Force.	Amount Assured.	Annual Premium Income.
	No.	£	£	No.	£	£
Australian Mutual Provident Society	45,945	1,453,591	89,875	14,406	448,390	28,350
Mutual Life and Citizens' Assurance Company (Ltd.)	214,064	4,087,968	202,457	64,857	1,218,536	63,616
Australasian Temperance and General Mutual Life Assurance Society (Ltd.)	111,591	2,247,878	143,200	23,342	483,360	32,004
The Standard Life Association (Ltd.)	20,641	536,757	25,181	12,010	303,555	14,644
Provident Life Assurance Company ..	21,822	603,209	34,360	2,332	61,506	3,353
Australian Metropolitan Life Assurance Company (Ltd.)	14,957	208,419	20,199	8,050	163,775	10,806
People's Prudential Assurance Company (Ltd.)	4,571	101,495	6,798	4,571	101,495	6,798
Phoenix Mutual Provident Society ..	110	2,161	177	110	2,161	177
	• 433,701	9,341,478	522,247	129,180	2,782,868	160,343

The operations in New South Wales represent 29·8 per cent. of the total number of policies in force; and both the amount assured and the annual premium income per policy are slightly in excess of the averages of the total business, viz. :—

	Total.	Local.
Amount assured for Policy	£21·5	£21·6
Annual Premium Income per Policy	1·20	1·24

The full extent of the local business, ordinary and industrial, is shown in the following figures:—

Business.	Policies in Force.	Amount Assured (excluding Bonus).	Annual Premium Income.
	No.	£	£
Ordinary ...	147,632	34,446,756	1,166,697
Industrial ...	129,180	2,782,868	160,348
Total ...	276,812	37,229,624	1,327,045

These figures show that industrial policies represent 46·6 per cent. of policies.

The number of policies per 1000 of the population is 168; the total sum assured represents £22·62 per capita, and the annual premium income 16s. 1d. per capita.

The total receipts and disbursements relating to industrial assurance of such companies as publish the information separately are given below, as derived from the latest balance-sheets in 1909:—

Institution.	Receipts.	Expenditure.		Excess (Reserves Additions).	Management Expenses per cent. of Receipts.
		Manage- ment.	Total.		
Australian Mutual Provident Society	£ 77,723	£ 43,488	£ 46,309	£ 31,414	per cent. 55·9
Mutual Life and Citizens' Assur- ance Company (Ltd.)	227,298	96,004	178,097	49,201	42·2
Standard Life Association (Ltd.) ...	31,760	22,176	36,511	(—) 4,751	69·8
*Colonial Mutual Life Assurance Society (Ltd)	19,082	3,298	3,336	15,746	17·3
Australian Temperance and General Mutual Life Assurance Soc. (Ltd.)	145,757	64,953	99,143	46,614	44·6
Phoenix Mutual Provident Society (Ltd.)	2,141	911	1,974	167	42·5
Provident Life Assurance Company	30,785	19,991	28,858	1,927	64·9
Total	534,546	250,821	394,223	140,318	46·7

* Operations for six months only.

The two companies which have not separated the receipts and expenditure of their ordinary and industrial business, viz., Australian Metropolitan Life and People's Prudential Assurance, together hold 10 per cent. of the local industrial policies, but on the available information it is apparent that expenses of management represent 63·6 per cent. of the total expenditure, including claims, surrenders, and cash dividends, or 46·9 per cent. of receipts, being slightly in excess of last year, when management expenditure was 46·2 per cent. of total income. For the year 1909 this represents 12s. 1d. per policy spent in collecting and handling the total premium income of £1 3s. 10d. per policy, for the societies concerned.

FIRE INSURANCE.

A new and comprehensive measure, the Fire Brigades Act, 1909, which came into operation on 1st January, 1910, embraces a wider area than the existing Act, which, in practice, applied only to the metropolitan area of Sydney, though it was permissible to extend its provisions to any borough or municipal district of New South Wales. The new Act applies to the city of Sydney, to suburban municipalities numbering 41, to 85 country municipalities, and to 6 shires, but other municipalities and shires may be included by proclamation.

The Board of Fire Commissioners consists of representatives elected by each of the various interests—the city and suburban area, the country area, the volunteer brigades, and the insurance companies—with a President appointed by the Government. The Board has control over every fire in a declared district, with power to recover charges for attendance at fires outside such districts. The funds of the Board are maintained by contributions of one-third each of estimated requirements for each district by insurance companies, municipalities, and the Government; and responsibility for a pro rata contribution is cast upon each owner of property assured in any company, as defined, which is not registered within the State. Returns to ensure efficient operation of these provisions are required by the Board from municipalities, insurance companies, and property owners.

The amount of the net risks held in the metropolitan area has been obtainable under the 22nd clause of the Fire Brigades Act of 1902, which required each company holding risks within the proclaimed area under the Fire Brigades Board to furnish annually to the Board the amount held at risk on the preceding 31st December within that area, less the sum reinsured with other contributory companies under the Act. This information was for assessment purposes only, the companies having been obliged to contribute one-third of the total annual expenditure of the Board, the sum subscribed by each being proportionate to the amount of net risks held within the said area. The total amount levied on the companies towards the expenses of the Board during 1909 was £19,100.

The declared amount of risks held in the metropolitan district since the Fire Brigades Act was first enacted to the year 1908 are shown below. The figures are as at the 31st December in each year:—

1884 ...	£36,691,000	1893 ...	£59,844,701	1902 ...	£71,750,461
1885 ...	41,631,582	1894 ...	59,340,096	1903 ...	73,083,028
1886 ...	46,253,370	1895 ...	59,720,282	1904 ...	75,147,807
1887 ...	49,209,395	1896 ...	59,907,953	1905 ...	78,108,749
1888 ...	53,583,000	1897 ...	60,426,170	1906 ...	81,364,129
1889 ...	57,148,388	1898 ...	61,861,909	1907 ...	86,563,304
1890 ...	58,207,183	1899 ...	63,689,331	1908 ...	89,971,992
1891 ...	58,415,945	1900 ...	66,427,642		
1892 ...	61,185,715	1901 ...	69,495,391		

Since the repeal of the Act of 1902 this information is not obtainable, as the returns now furnished by the companies to the Board are confidential.

A summary of the receipts and disbursements of 48 of the fire insurance companies for the year 1909 is shown below. Twelve of these have their head offices in the Commonwealth, 4 in New Zealand, 1 in Canada, 1 in India, 29 in the United Kingdom, and 1 outside the British Empire. With regard to the remainder of the companies which contribute to the maintenance of the Fire Brigades Board, the purely marine offices, which carry fire risks on goods in transit, have been omitted, while in three cases the information is not available. The life assurance figures of those institutions which combine fire and life business have also been excluded where possible:—

Receipts.		Disbursements.	
	£		£
Premiums (less reinsurances) ...	37,448,961	Claims paid	18,930,852
Interest, rent, fees, &c. ...	2,048,190	Expenses of management, &c....	13,414,491
Total ...	39,497,151	Total ...	32,345,343

The total liabilities and assets of the same companies were as follows:—

Liabilities.		Assets.	
£		£	
Paid-up Capital	12,331,956	Investments, including accrued interest	85,509,830
Reserve Funds, &c.	25,417,524	Real Estate	12,568,026
Other Liabilities	82,626,415	Other Assets	30,815,873
Balance of Profit and Loss Account	8,517,834		
Total	128,893,729	Total	128,893,729

MONEY ORDERS AND POSTAL NOTES.

The money order and postal note systems are conducted by the Post and Telegraph Department. Under the money order system, money may be transmitted from the principal post offices of New South Wales to any part of the world. The orders are sent either direct to the place of payment or through intermediary agencies, all places within New South Wales or the neighbouring States being dealt with directly, while to places outside Australia the intermediary system is applied. Under the postal note system exchanges are effected throughout the Commonwealth; its original object was to afford means of transmitting small amounts of less than £1 to places within the State. The money order and postal note systems cover somewhat the same ground, so far as small remittances within the State are concerned; but as the public convenience is amply met by the postal note, it is anticipated that the money order system will be confined almost entirely to business involving amounts exceeding £1.

The money order system was adopted in January, 1863. In that year there were three orders issued for every hundred persons in the State, and the total value of the orders was £53,862; in 1909 the number was 617,860, or 38 per 100 inhabitants, and the total value £2,746,164. The growth of the business has been due mainly to the extension of the sphere of operations in and beyond the State, and to the greater appreciation of the system, especially by the wage-earning class of the community. Appended is a statement of the business transacted in 1909 by means of money orders:—

Issued in New South Wales.			Paid in New South Wales.		
Payable in--	Number	Value.	Issued in--	Number	Value.
Commonwealth of Australia—		£	Commonwealth of Australia—		£
New South Wales	484,731	2,295,187	New South Wales	459,993	2,239,273
Victoria	34,854	135,983	Victoria	16,396	79,776
Queensland	14,508	64,538	Queensland	32,955	143,110
South Australia	9,902	42,729	South Australia	8,927	38,224
Western Australia	3,887	20,838	Western Australia	13,686	69,402
Tasmania	4,151	16,115	Tasmania	6,493	23,684
New Zealand	9,082	27,339	New Zealand	36,939	92,869
United Kingdom	46,588	102,858	United Kingdom	16,858	51,641
Germany	1,164	4,586	Germany	428	2,045
Italy	796	3,697	Italy	54	410
Canada	421	1,375	Canada	784	3,302
United States	4,251	8,835	United States	2,708	11,745
India	1,440	15,185	India	646	2,331
Cape Colony	611	1,759	Cape Colony	678	2,350
German New Guinea	4	20	German New Guinea	192	1,365
Hong Kong	565	2,220	Hong Kong	359	941
Samoa	15	60	Samoa	494	4,885
Natal	153	653	Natal	446	2,277
Tonga	17	16	Tonga	209	1,867
Fiji	187	551	Fiji	3,020	9,604
Transvaal	182	722	Transvaal	1,222	5,191
Other	345	940	Other	957	4,867
Total	617,860	2,746,164	Total	634,414	2,840,639

The following table distinguishes orders drawn on New South Wales from those drawn on other countries. The amount of money transmitted to countries outside New South Wales was exceeded by the money received from other countries in every year of the last decennium. The value of money orders issued and paid in the State at intervals since 1895 is shown in the following table:—

Year.	Issued in New South Wales.			Paid in New South Wales.		
	Drawn on New South Wales.	Drawn on other Countries.	Total.	Issued in New South Wales.	Issued in other Countries.	Total.
	£	£	£	£	£	£
1895	985,771	283,429	1,269,200	984,509	262,726	1,247,235
1900	1,182,554	325,413	1,507,967	1,178,713	362,822	1,541,535
1905	1,746,866	329,280	2,076,146	1,757,229	425,400	2,182,629
1906	1,915,896	351,241	2,267,137	1,910,183	440,115	2,350,298
1907	2,015,332	418,565	2,433,897	2,012,735	493,699	2,506,434
1908	2,106,085	433,180	2,539,265	2,110,765	535,285	2,646,050
1909	2,295,187	450,977	2,746,164	2,289,273	551,366	2,840,639

A commission is paid to those countries to which money is transmitted in proportion to the amount of the orders forwarded to each, the rate of commission varying from $\frac{1}{2}$ to 1 per cent., and a similar allowance is made to the State by countries doing a return business.

The maximum amount allowable for a single order is £40 in respect of the United Kingdom, Germany (including Samoa and other German protectorates), Canada, Fiji, New Zealand, Cape Colony, Orange River Colony, Transvaal, Natal, Hongkong, India, Ceylon, Straits Settlements, Egypt, Peru, and the British Protectorate of Somaliland; but no single order payable in Italy, or the United States is issued for more than £20; to all other places the limit is £10. The rates of commission on money orders payable in the Commonwealth and Papua are respectively 6d. and 9d. for every £5. The charges on those payable in New Zealand and Fiji are—not exceeding £2, 6d.; £2 to £5, 1s.; £5 to £7, 1s. 6d.; £7 to £10, 2s.; and in the same proportion up to £40. The commission on orders payable in the United Kingdom, other British Possessions, and foreign countries, is at the rate of 6d. for each pound.

The total amount of commission collected from the public for the same periods is given below, and also the excess of receipts over payments as shown in the preceding table:—

Year.	Commission received.	Net Receipts from Other Countries.	Net Collections.
	£	£	£
1895	14,863	(-) 234	14,629
1900	16,296	51	16,347
1905	19,313	419	19,732
1906	19,377	438	19,815
1907	20,251	316	20,567
1908	20,839	350	21,189
1909	21,121	316	21,437

Postal notes were first issued in New South Wales on the 1st October, 1893. The transactions for interval years were as follow:—

Year.	New South Wales Postal Notes.			Postal Notes of other States of Australia paid in New South Wales.					Total Value.
	Paid in New South Wales.	Paid in other States.	Total Value.	Issued in—					
				Victoria.	Queensland.	South Australia.	Western Australia.	Tasmania.	
	£	£	£	£	£	£	£	£	£
1895	243,188	16,369	259,557	7,627	3,863	1,431	....	441	13,262
1900	462,087	26,396	488,483	12,207	9,899	2,209	....	1,047	25,362
1905	637,465	85,703	723,168	35,034	23,535	8,752	9,170	5,712	87,203
1906	710,053	98,706	808,759	36,672	34,616	10,092	10,347	6,193	97,920
1907	776,931	117,343	894,274	37,282	33,177	11,893	11,083	6,694	105,129
1908	817,213	113,909	931,122	39,162	41,409	12,337	11,014	7,184	111,106
1909	851,166	143,097	999,263	42,794	45,919	14,645	11,167	7,737	122,262

The poundage collected in New South Wales during the same years was as follows:—

Year.	Amount.	Year.	Amount.
	£		£
1895	6,317	1907	17,615
1900	11,850	1908	18,116
1905	14,262	1909	19,330
1906	15,961		

BANKRUPTCY.

Prior to the 1st January, 1888, the transactions in insolvency were conducted by the Commissioner of Insolvent Estates, but under the Act of 1887, and subsequent amending Acts, which were consolidated under the Act of 1898, the law is administered by a Supreme Court Judge in Bankruptcy. On the passage of the Act of 1887 it was anticipated that a much healthier tone in trade would ensue, and that there would be a considerable reduction in the number of debtors who would have recourse to the law to obtain relief. The impression then formed was not realised in the earlier years of the operation of the Act, and sequestrations were quite as numerous as under the repealed Act, but are now diminishing. The following statement shows the number of bankruptcy petitions for each of the last five years:—

Year.	Petitions in Bankruptcy.			Petitions withdrawn, refused, &c.	Sequestration Orders granted.
	Voluntary.	Compulsory.	Total.		
1905	332	106	438	17	421
1906	337	91	428	22	406
1907	256	111	367	34	333
1908	272	84	356	24	332
1909	297	84	381	15	366

A regular decrease in the number of sequestrations has taken place since 1893, and, taken in conjunction with the increase in the savings of the people, as evidenced by the growth of bank deposits, and the position disclosed by the life assurance returns, there are undoubted indications of the growing prosperity of the State.

The estates in respect of which certificates of discharge or release have been granted during the time the Act has been in force number 2,460, or more than 13 per cent. of the total sequestrations. In some cases application is made for a certificate and refused; taking these into consideration it would appear that out of 100 bankrupts, 86 are unable, or too indifferent, to take the necessary steps to free themselves from bankruptcy. The property of an uncertificated bankrupt, even if acquired subsequently to sequestration, is liable to seizure on behalf of unsatisfied creditors, and as applications for certificates of discharge are apparently the exception rather than the rule, it would appear that the great majority of bankrupts do not attain a position in which they are likely to be disturbed by unsatisfied creditors. The number of sequestrations for the years the Act has been in force is 17,611 and of these 15,151 remain uncertificated. During 1909 the total number of sequestrations was 366; the liabilities, according to bankrupts' schedules, were £168,169 and the assets amounted to £82,563. The qualification "according to bankrupts' schedules" is necessary, as the returns of assets and liabilities established after investigation by the Court differ widely from those furnished by bankrupts:—

Quinquennial Period.	Sequestrations.	Nominal—		
		Liabilities.	Assets.	Ratio of Assets per £1 of Liability.
	No.	£	£	£ s. d.
1888-1892	5,730	5,682,689	2,644,382	0 9 4
1893-1897	6,235	5,760,232	3,406,148	0 11 10
1898-1902	2,864	2,159,659	994,803	0 9 3
1903-1907	2,084	1,359,121	781,108	0 11 6
1908	332	322,850	185,507	0 11 6
1909	366	168,169	82,563	0 9 10
Total ...	17,611	15,452,770	8,094,511	0 10 6

The dividend rates paid on the amount of proved liabilities of estates which have been wound-up are not given, as it would involve an investigation of the transactions in each estate; and even this operation would not result in complete returns, as there are estates which remain unsettled over many years.

There are official assignees to assist the Court in winding-up the estates. Each official pays all money received by him to the Registrar in Bankruptcy, who places the amount to the credit of the Bankruptcy Estates Account, from which all charges, fees, and dividends are met. The official assignees are required to furnish quarterly statements of the transactions in each estate.

District Registrars in Bankruptcy have been appointed throughout the State, the positions generally being filled by Police Magistrates or other court officials. District Registrars have the same powers and jurisdiction as the Registrar in respect to examinations of bankrupts and the technical business of the court.

TRANSACTIONS IN REAL ESTATE.

The Real Property or Torrens Act was passed in 1862, transactions in real estate previously having been regulated by the Deeds Registration Act of 1843. The Real Property Act completely altered the procedure in regard to land transfers, and was modelled on the lines of legislation in South Australia, adopted at the instance of Sir R. R. Torrens. The main features of the Act are the transfer of real property by registration of title instead of by deeds; the absolute indefeasibility of the title when registered; and the protection afforded to owners against possessory claims, as a title issued under the Act stands good notwithstanding any length of adverse possession. From the passing of Torrens Act all lands sold by the Crown have been conveyed to the purchasers under its provisions, and the provisions of the old law have been restricted to transactions in respect of grants already issued. The area for which grants under the old system had been issued prior to 1862 was 7,478,794 acres; of these grants, 1,932,979 acres have since been brought under the provisions of Torrens Act, so that the area still under the old Deeds Registration Act is 5,545,815 acres.

Lands may be placed under Torrens Act only when their titles are unexceptional; and as thousands of acres are brought under the Act during the course of every year, it is merely a question of time when the whole of the lands of the State will be under a uniform system. The areas of Crown lands conveyed, and of private lands brought under the Real Property Act during the decade ended 1909, were as follows:—

Year.	Area.			Value.		
	Crown Lands.	Private Lands.	Total.	Crown Lands.	Private Lands.	Total.
	acres.	acres.	acres.	£	£	£
1900	526,331	47,224	573,605	427,285	837,315	1,264,600
1901	764,431	56,877	821,308	641,361	692,641	1,334,002
1902	897,591	46,678	944,269	813,015	1,089,235	1,902,250
1903	1,403,994	56,492	1,460,486	1,181,102	1,045,780	2,226,882
1904	1,557,667	38,890	1,596,557	1,109,688	907,371	2,017,059
1905	1,834,802	55,251	1,890,053	1,390,255	725,508	2,115,763
1906	1,743,210	98,722	1,841,932	1,486,489	968,449	2,454,938
1907	1,750,597	54,205	1,804,802	1,552,049	1,349,351	2,901,400
1908	1,604,062	85,917	1,689,979	1,502,640	1,173,042	2,675,682
1909	1,227,312	54,903	1,282,215	1,147,768	1,093,796	2,241,564

For the whole period during which the Real Property Act (Torrens) has been in operation, 31,827,762 acres, valued at £31,822,144, have been conveyed under its provisions; and 1,932,979 acres, valued at £32,403,097, have been brought under it, the deeds under the old Act having been cancelled.

The transfers and conveyances of private lands which take place during ordinary years indicate in some measure the condition of business in real estate; the volume of these transactions, however, in some years cannot be relied upon as giving more than an indication of speculation or inflation. In the following table, which covers ten years, the money consideration paid on sales of private lands during each year is shown excluding, of course, lands sold on long terms. During 1888 land to the value of £11,068,873

changed hands, but in 1905 the amount had fallen to £6,865,053; in 1909 the total for the year was £11,729,404. The records of recent years, as shown below, indicate that there is an upward tendency in transactions in real estate, of a permanent character.

Year.	Conveyances or Transfers.		
	Under Old System.	Under Real Property (Torrens) Act.	Total.
	£	£	£
1900	2,265,901	3,444,209	5,710,110
1901	2,263,853	3,986,229	6,250,082
1902	2,519,247	4,350,050	6,869,297
1903	3,316,360	4,025,286	7,341,646
1904	2,524,799	4,138,994	6,663,793
1905	2,197,031	4,668,022	6,865,053
1906	2,820,456	7,346,558	10,167,014
1907	3,342,526	9,366,063	12,708,589
1908	2,879,955	9,880,177	12,760,132
1909	2,312,529	9,416,875	11,729,404

As already mentioned, the Real Property Act provides that on the issue of a certificate the title of the person named on the certificate is indefeasible. Provision is made, however, for error in transfer, by which persons might be deprived of their property; as, should the transfer be made to the wrong person, the holder of the certificate cannot be dispossessed of his property unless he has acted fraudulently. To enable the Government to compensate persons who, through error, may have been deprived of their properties, an assurance fund was created by means of a contribution of one half-penny in the pound on the declared capital value of property when first brought under the Act, and upon transmissions of titles of estates of deceased proprietors. It is a sterling testimony of the value of the Act, and of the facility of its working, that payments from the assurance fund to the 31st December, 1907, in respect of titles improperly granted, amounted to £16,326 only.

In 1907 the assurance fund, as a separate account, was closed, and the balance at credit, £157,569, was transferred to the Closer Settlement Account in accordance with the provisions of section 6 of the Public Works and Closer Settlement Funds Act, 1906. All assurance contributions under section 119 of the Real Property Act, 1900, and claims for compensation in pursuance of that Act, are now respectively paid to and discharged from the Closer Settlement Fund.

MORTGAGES.

All mortgages, except those regulated by the Bills of Sale Act of 1893 and the Merchant Shipping Act of 1894, are registered at the Registrar-General's Office, and it is a fair assumption that the number recorded represents the bulk of the mortgages effected. Where more than one mortgage has been effected on the same property, the mortgages take priority according to the time of registration, and not in accordance with the respective dates of the instruments. The amount of consideration for which a mortgage stands as security is not always stated in the deeds, the words "valuable consideration" or "cash credit" being inserted instead of a specific sum in many of the transactions of banks and other loan institutions, in cases where the advances

made are liable to fluctuation; and as this frequently occurs when the property mortgaged is of great value, an exact statement of the total advances against mortgages cannot be given. Consequently the figures in the tables given below relate only to cases in which a specific amount is stated in the deeds, whether that amount be the sum actually advanced or not. The same remark applies also to discharges, the amount of which, as shown in the tables, is still further reduced by the exclusion of mortgages which have been satisfied by foreclosure or seizure, a record of which is not available. Many mortgages, therefore, appear in the official records as current, although the property which they represent has passed away from the mortgagor.

MORTGAGES OF REAL ESTATE.

Mortgages of land are registered either under the Deeds Registration Act or the Real Property Act, according to the Act under which the title of the property stood at the date of mortgage. The mortgages registered for each of the five years ended 1909 were:—

Year.	Number.			Consideration.		
	Under Deeds Registration Act.	Under Real Property Act.	Total.	Under Deeds Registration Act.	Under Real Property Act.	Total.
	No.	No.	No.	£	£	£
1905	3,921	7,220	11,141	3,207,238	6,437,963	9,645,201
1906	3,996	8,062	12,058	3,953,679	7,814,309	11,767,988
1907	4,642	8,783	13,425	5,621,296	8,885,375	14,506,671
1908	5,160	9,726	14,886	6,062,147	10,490,957	16,553,104
1909	5,126	10,380	15,506	5,578,095	15,095,211	20,673,306

The consideration given generally represents the principal owing; in some cases, however, it stands for the limit within which clients of banks and of other loan institutions are entitled to draw, though many of these clients may be in credit while their property is mortgaged and unreleased.

The amount of mortgages discharged has always been much less than the amount registered, since the discharges do not include foreclosures, which, if not formally registered as discharges, are nevertheless mortgages cancelled. The volume of the releases is also reduced by mortgages paid off in instalments, as the discharges may be given for the last sum paid, which might happen to bear a very small proportion to the total sum borrowed; and further, the total of discharges is reduced owing to the practice, now largely followed, of allowing mortgages maturing on fixed dates to be extended for an indefinite period.

MORTGAGES ON LIVE STOCK AND WOOL.

Liens on wool, mortgages on live stock, and liens on growing crops are registered under special Acts, the first two under a temporary measure passed in 1847, which was continued from time to time and became permanent by a special enactment in 1860, and the liens on growing crops under the law of 1862. The mortgages on live stock are current till discharge, and the liens on wool mature at the end of each season, and terminate without formal discharge. Mortgages under each Act are valid without delivery of the stock or crops to the mortgagees. The figures relating to

live stock are given in some detail, as they throw considerable light on the condition of the great pastoral industry of the country. They must, however, be taken with this qualification, that the amount stated represents in many cases merely nominal indebtedness, and the advances are not in every instance made to persons financially embarrassed. But with full allowance on this score, the figures given below reveal the large degree of assistance required by the pastoralists. In the table, amounts secured both by lien on the wool and by mortgage of the sheep, are included under the head of mortgages only:—

Year.	Liens on Wool.			Mortgages on Live Stock.				
	Number.	No. of Sheep.	Consideration.	Number.	No. of Sheep.	No. of Horned Cattle.	No. of Horses.	Consideration.
			£					£
1905	1,618	3,704,577	643,953	2,465	2,604,613	80,020	15,627	1,188,076
1906	1,634	3,444,400	658,292	2,818	3,054,083	94,893	15,937	1,243,972
1907	1,751	3,931,620	834,747	3,176	3,401,888	139,091	13,481	1,723,708
1908	1,755	3,750,145	799,172	3,318	3,014,031	137,003	18,926	1,952,210
1909	1,778	4,197,519	947,858	2,984	3,053,456	113,416	16,067	1,737,047

DISCHARGES OF MORTGAGES.

The number of discharges registered amounted to rather more than one-third of the number of mortgages of live stock registered during last year. The figures for the ten years ended 1909 were:—

Year.	Discharges.	Amount.	Year.	Discharges.	Amount.
	No.	£		No.	£
1900	521	687,787	1905	509	644,569
1901	438	960,453	1906	768	1,184,201
1902	387	751,455	1907	914	1,236,705
1903	397	532,368	1908	873	838,609
1904	410	402,398	1909	912	684,714

LIENS ON GROWING CROPS.

Under the provisions of the Act, liens, the duration of which may not exceed one year, are made on agricultural and horticultural produce. Such advances do not ordinarily reach large sums, either individually or in their total, as there is an element of uncertainty in the security offered. During the last ten years the advances ranged from £96,363 to £181,234 per annum. The liens registered in 1909 were 1,115 in number, covering advances to the extent of £134,500:—

Year.	Number.	Consideration.	Year.	Number.	Consideration.
		£			£
1900	1,514	161,887	1905	1,520	172,368
1901	1,390	131,814	1906	1,264	142,567
1902	1,077	109,342	1907	917	96,363
1903	1,607	181,234	1908	921	111,320
1904	1,406	159,620	1909	1,115	134,500

MORTGAGES ON SHIPS.

Mortgages of registered British vessels are arranged under the Merchant Shipping Act of 1894. The mortgages are divided into two classes, one in which the ship is the sole security, and the other in which the advances are made on the security of "the account current," which may consist of ships, wharfage appliances, &c. Registrations are effected at the two ports of registry, Sydney and Newcastle; and the returns are given in the subjoined statement:—

Year.	Mortgage on Ships only.				Mortgage on Account Current.			
	Sailing Vessels.		Steam Vessels.		Sailing Vessels.		Steam Vessels.	
	No.	Amount.	No.	Amount.	No.	Amount.	No.	Amount
		£		£		£		£
1905	5	1,975	7	33,581	23	78,317	11	90,351
1906	15	14,150	21	65,907	3	3	17	16,781
1907	3	990	11	18,240	2	2,001	9	20,008
1908	4	1,705	14	7,906	3	4,001	16	15,712
1909	11	1,832	12	19,500	5	2,363	8	10,504

BILLS OF SALE.

All mortgages on personalty other than ships and shipping appliances, wool, live stock, and growing crops, are filed at the Supreme Court under the Bills of Sale Act of 1855, as consolidated by Act No. 10 of 1898. This Act provides that each document shall be filed within thirty days after it is made or given, otherwise the transaction is illegal; also that the registration shall be renewed every twelve months; and to prevent fraud and imposition the records are open to the inspection of the public. The total amount of advances annually made on bills of sale is not readily available; but, judging from the number of bills filed, the sum must be considerable. All classes of the community participate in the advantages of the Act, but brewers and money lenders appear conspicuously among the transferees. No complete record is made of the bills terminated voluntarily or by seizure, the official records showing only those discharged in the ordinary way. Seizures of the security given, which generally consists of household furniture and stock-in-trade, are common occurrences, and it is to be regretted that no record of them is kept; but, as previously stated, the neglect in the registration of foreclosures is a weakness in the procedure under all Acts regulating mortgage transactions. The bills filed and the discharges registered for the five years ended 1909 are as follow:—

Year.	Registrations.		Renewals under Bill of Sale Act of 1898.
	Filed in Supreme Court.	Satisfied or orders for discharge made.	
1905	2,728	224	2,187
1906	2,428	268	2,069
1907	2,238	304	1,894
1908	2,481	251	1,725
1909	2,212	265	1,779

DISTRIBUTION OF PROPERTY.

In making estimates of the wealth of a country the probate value of estates has frequently been taken as the basis of the calculations. This, however, is hardly correct, as the probate returns give only the apparent property left by deceased persons, irrespective of debts. To assume that the average amount of property left by each adult who dies during a given period represents the average possessed by each living adult is open to two objections. First, the average age of adults who die is greater than that of those still surviving; and secondly, the wealth of an individual increases with years, and, generally speaking, is greater at death than at any period during life.

The valuations of estates for stamp duty purposes are, however, on a different plane. Such valuations are far below those exhibited in the probate returns, approximating to 21 per cent. less. If it were possible to obtain the ages of persons dying, the stamp duty returns would possess considerable value in estimating the wealth of the community, but as matters stand it has not been practicable to utilise them. Some useful statistical comparisons may, however, be drawn from a consideration of the probate returns. A table is annexed showing the number of estates and amount entered for probate in each of the calendar years 1900 to 1909, the number of estates and amount on which stamp duty was paid during the corresponding financial years ended 30th June following in each case, being given in the last two columns:—

Year.	* Probate Court Returns.		† Stamp Duty Returns.	
	No. of Estates.	Amount.	No. of Estates.	Amount.
		£		£
1900	2,452	4,731,032	2,410	4,628,547
1901	2,657	7,083,459	2,726	5,570,718
1902	2,782	5,807,620	2,740	5,385,467
1903	2,767	7,179,882	2,750	5,205,045
1904	2,850	6,155,963	2,712	5,297,552
1905	2,804	7,714,416	2,802	6,066,182
1906	2,852	7,529,437	2,797	6,400,392
1907	3,084	7,563,499	3,172	6,655,673
1908	3,094	7,838,572	3,239	7,215,018
1909	3,185	11,142,068	3,187	10,417,169
Total ...	28,527	72,695,948	28,535	62,841,763

* Year ended 31st December.

† Year ended 30th June following.

As the table shows, the number of estates during the ten years reached 28,527, the total assessed value for probate being £72,695,948. According to these figures, the average value of estate left by each person who died possessed of property was £2,548. A much better guide, however, is furnished by the net value of estates on which stamp duty is paid. According to these figures, as shown in the above table, stamp duty was paid from 1st July, 1901, to 30th June, 1910, on 28,535 estates, valued at £62,841,763. This gives an average value per estate of £2,202.

The following figures gleaned from returns collected by the Stamp Office in Sydney, in connection with assessment of estates of deceased persons, show approximately the proportion of residents to non-residents, and the aggregate values of their estates for the five years ended 31st December, 1909:—

Resident in--	£	Proportion per cent.
New South Wales	32,584,909	85.51
Europe, including Great Britain	3,134,089	8.22
Victoria	1,887,450	4.95
Other Australian States and New Zealand	412,937	1.09
Elsewhere	85,991	0.23
Total	38,105,376	100.00

From the above distribution it appears that 14.5 per cent. of the private property in New South Wales is possessed by absentee owners, Europe, including Great Britain, holding 8.22 per cent.; Victoria, 5.0 per cent.; other Commonwealth States and New Zealand, 1.1 per cent.; other countries, 0.2 per cent.

Some idea of the proportion of the whole population possessing estates of sufficient value to be the subject of specific bequest may be gained from a comparison of the number of persons leaving property at death, with the total number of persons dying during a fixed period. In the following table such a comparison has been instituted for quinquennial periods since 1880, the figures showing the proportion of persons dying possessed of property per hundred of the total deaths in each quinquennium:—

Period.	Proportion of Estates per 100 deaths of total population.
	per cent.
1880-84	11.0
1885-89	11.6
1890-94	13.2
1895-99	14.9
1900-04	17.0
1905-09	19.1

Such a distribution of wealth as the above figures show betokens a widely diffused basis of prosperity, which, fortunately, is being continually enlarged.

A still more convincing illustration of the wide distribution of property in New South Wales is afforded by the next table, which shows the proportion of estates per 100 deaths of adult males, as well as the proportion per 100 deaths of adult males and females. The latter method of comparison is frequently neglected; but since large numbers of females are possessors of valuable property, the fact should certainly be taken into consideration in order to arrive at a fair estimate of the distribution of private wealth. The figures are given for quinquennial periods, commencing with the year 1880:—

Period.	Proportion of Estates per 100 deaths of adult Males.	Proportion of Estates per 100 deaths of adult Males and Females.
1880-84	34.6	22.3
1885-89	37.5	23.8
1890-94	41.2	25.8
1895-99	42.7	26.2
1900-04	46.0	27.8
1905-09	48.8	29.2

The same weakness, however, exists in these figures as in the case of those previously given in regard to the values, for approximately three in every hundred estates, concerning which probate or letters of administration are granted, prove to be without assets, so that the proportions must be somewhat reduced.

The statement that there is a wide distribution of property in New South Wales must be taken relatively. On the basis of adults who died, the property owners represent about 28·3 per cent., the remaining 71·7 per cent. being without property. The following table is of interest as showing the distribution of property amongst the persons who died during the ten years ended June, 1910:—

Category.	Number of Persons with Property, Deceased.	Proportion per 10,000 in each Group.	Value of Estates of Deceased.	Proportion per cent. in each Group.
			£	
£50,000 and over ...	150	53	21,654,079	34·46
£25,000 to £50,000 ...	200	70	6,879,679	10·95
£12,500 to £25,000 ...	417	146	7,182,525	11·43
£5,000 to £12,500 ...	1,098	385	8,514,007	13·55
£200 to £5,000 ...	17,405	6,099	17,754,605	28·25
Under £200 ...	9,265	3,247	856,868	1·36
Total ...	28,535	10,000	62,841,763	100·00

LAW AND CRIME.

HIGH COURT OF AUSTRALIA.

THE High Court Procedure Act of 1903 provides that appeals to the High Court from judgments of the Supreme Court or of any other Court of any State, from which, at the establishment of the Commonwealth, an appeal lay to the Queen-in-Council, shall be instituted by notice of appeal in a certain prescribed form. The appellant may appeal from the whole or any part of a judgment, but his notice of appeal must give full particulars in this regard. Since the establishment of the Court 173 appeals have been set down for hearing and 93 have been allowed.

THE SUPREME COURT—CIVIL JURISDICTION.

The chief legal tribunal of the State is the Supreme Court, which at present consists of a Chief Justice and six Puisne Judges. Civil actions are usually tried by a jury of four persons, but either party to the suit, on cause shown, may apply to a Judge in Chambers to have the cause tried by a jury of twelve. Twice the number of jurors required to sit on the case are chosen by lot, from a panel summoned by the Sheriff, and from that number each of the parties strikes out a fourth, the remainder thus selected by both parties constituting the jury. The jury find only as to the facts of the case, being bound to accept the dicta of the Judge on all points of law. From the Court thus constituted an appeal lies to the "Full Court," sitting *in Banco*, which is generally composed of at least three of the Judges. The Chief Justice, or in his absence the senior Puisne Judge, presides over the Full Court, which gives its decision by majority. New trials may be granted where the Judge has erroneously admitted or rejected material evidence; where he has wrongly directed the jury on a point of law; where the verdict of the jury is clearly against evidence; or where, from some other cause, there has evidently been a miscarriage of justice.

Provision is made for appeals to the Privy Council, but any suitor wishing to carry his cause before that tribunal must obtain leave from the Supreme Court. The dispute must involve an amount of £500 at least, or must affect the construction of a New South Wales statute. In other cases, application for leave to appeal must be made directly to the Privy Council. The British Government has appointed Sir Samuel Way, Chief Justice of South Australia, to a seat on the Judicial Committee of the Privy Council, so that he may bring to the deliberations of the Committee his knowledge of the laws, especially the land laws, of the States. So far as New South Wales is concerned, during the seven years ended 1909, 21 applications for leave to appeal to the Privy Council in common law were granted, 11 in Equity, and 1 in Bankruptcy. Leave was granted in 2 cases in common law, and 2 in Equity, during 1909.

The Chief Justice has an extensive jurisdiction as Commissary of the Vice-Admiralty Court, in which all cases arising out of collisions &c., in Australian waters, are determined. One of the Puisne Judges acts as his deputy; but the Supreme Court, as such, has no jurisdiction in Admiralty cases.

One of the Puisne Judges also acts as Chief Judge of the Equity Court, from whose decrees an appeal lies to the Full Court, and thence to the Privy Council.

Affairs in Bankruptcy are conducted by a Puisne Judge, assisted by the Registrar. An appeal may be made to the Full Court against the Judge's decision.

Another Puisne Judge presides over the Divorce Court, in which cases are tried usually without a jury, an appeal lying to the Supreme Court.

The Equity Judge formerly represented the ecclesiastical jurisdiction of the Supreme Court in connection with applications for the probate of wills and for letters of administration, and determined suits as to the validity, &c., of wills. By the Probate Act of 1890 this jurisdiction was vested in the Supreme Court, in its Probate Jurisdiction, and the business transferred to such Judge as might be appointed Probate Judge, in whom was vested power to direct the rehearing of any cause before the Full Court.

Upon permanent disability or infirmity, or after fifteen years' service, a Judge is entitled to retire from the Bench with a pension, the amount of which, as well as of his salary, is regulated by various Acts. He may be removed from office only upon an address to the Governor by both Houses of the Legislature.

A candidate seeking admission as a solicitor, provided he has not been admitted in England, Ireland, or Scotland, or in any State of the Commonwealth of Australia, must have been articled to some solicitor practising in New South Wales, and have served for a term of five years, or if he had taken a University degree in Arts before entering into articles, a term of three years, and must have passed the examinations of a Board, consisting of two barristers and four solicitors, appointed annually for that purpose by the Judges of the Supreme Court. The admission of a solicitor may take place only on the last day of any of the four terms into which the year is divided. A solicitor who ceases to practise for two years continuously is allowed to resume practice only under an order from the Court. A barrister who has been in practice as such for five years, having caused himself to be disbarred, may be admitted as a solicitor without examination. A solicitor has the right of audience in all Courts of New South Wales, and the Supreme Court may suspend or remove from the roll any solicitor who has been guilty of misconduct or malpractice.

The Board for admission of barristers of the Supreme Court consists of the Judges of the Supreme Court, the Attorney-General, and two elected members of the Bar. Applicants must have been students-at-law for three, or, in the case of graduates, for two years, and have passed all examinations prescribed by the Board. A solicitor who has been in practice for at least five years, and who has removed his name from the roll of solicitors, may be admitted as a barrister without examination.

During the year 1909 there were 151 persons practising as barristers of the Supreme Court; and the solicitors numbered 986, of whom 581 were in Sydney and 405 in the country.

COMMON LAW JURISDICTION OF SUPREME COURT.

The following table gives the number of writs issued, and the amount for which judgment was signed, in the Supreme and Circuit Courts (Common Law Jurisdiction) during the last ten years. The number of writs issued includes cases which were subsequently settled by the parties; but the total amount involved in these claims is not, of course, included in the sum for which judgment was signed. The amounts for signed judgments include taxed costs in all cases where the judgments have been completed at the end of the year. During 1909 the total bills of costs

amounted to £38,667, but from this a sum of £12,464 was taxed off, leaving the net costs at £26,203. The Court costs of taxation amounted to £531:—

Year.	Writs issued.	Judgments signed.	Year.	Writs issued.	Judgments signed.
	No.	£		No.	£
1900	2,983	296,841	1905	3,719	176,930
1901	2,890	309,346	1906	2,404	143,386
1902	3,533	475,161	1907	1,832	132,839
1903	4,030	285,801	1908	2,266	189,350
1904	3,973	220,305	1909	2,023	193,039

The number of causes set down and tried is shown below:—

Year.	Causes set down.	Not proceeded with.	Referred to Arbitration.	Causes Tried.				Total.
				Verdict for Plaintiff.	Verdict for Defendant.	Disagreement of Jury.	Non-suited.	
	No.	No.	No.	No.	No.	No.	No.	No.
1900	252	89	1	117	29	3	13	162
1901	230	117	1	116	28	1	17	162
1902	264	86	...	114	40	6	18	178
1903	300	102	4	131	39	3	21	194
1904	266	87	7	119	38	3	12	172
1905	260	89	2	102	49	5	13	169
1906	235	76	2	105	34	5	13	157
1907	174	62	4	80	19	1	8	108
1908	221	91	1	86	30	1	12	129
1909	204	73	1	89	29	2	10	130

The small number of causes set down for hearing in comparison with the number of writs issued indicates the extent to which cases are settled out of Court, and the effectiveness with which the mere issue of a writ ensures settlement.

The Commercial Causes Act, 1903, has provided an expeditious method for the trial of commercial causes, which include matters relating to the ordinary transactions of merchants and traders, the construction of mercantile documents, affreightment, insurance, banking and mercantile usages. The parties to a Supreme Court common law action may secure the Judge's order to have it brought upon the list of Commercial Causes, and from this order there can be no appeal. To secure speedy settlement in accordance with the aim of the Act the Judge is empowered to dispense with juries, pleadings, and technical rules of evidence, and with proofs of writing and documents, and to order inspections and admissions; he may also settle the issues for trial, and state a case on points of law for the Full Court.

EQUITY JURISDICTION.

The Equity Act, 1901, consolidated enactments relating to the practice, procedure, and powers of the Supreme Court in matters of equity, demanding relief, including the appointment of guardians of infants and the administration of their estates. The Judge in Bankruptcy, who, exercising equitable jurisdiction, is styled the Judge in Equity, may have the assistance of two other Judges, the decision of the majority then having the effect of a Full Court decision. To assist the Court in making binding declarations of right, it may call for the assistance of merchants, engineers, actuaries, or any other persons, has power to decide legal titles, to award damages, or grant specific performance; and exercises all the powers of the Supreme Court in its Common Law Jurisdiction. The Court may also delegate investigations to

the Master in Equity. The following is a statement of the transactions in this jurisdiction during the last ten years :—

Year.	Statements of Claims.	Statements of Defence.	Petitions.	Summonses.	Motions.	Decrees and Orders.
	No.	No.	No.	No.	No.	No.
1900	213	131	69	197	206	841
1901	131	87	58	167	159	668
1902	176	86	136	149	140	797
1903	163	91	117	175	135	806
1904	211	98	89	176	174	1,245
1905	180	88	60	192	164	1,050
1906	149	86	64	183	127	1,030
1907	172	88	71	195	147	1,072
1908	191	124	65	151	135	1,047
1909	210	121	66	153	168	1,016

The amount of Trust Funds invested under Equity Jurisdiction for 1909 was £693,407.

PROBATE JURISDICTION.

The number of probates and letters of administration granted by the Supreme Court in its testamentary jurisdiction for the last ten years is shown in the following table :—

Year.	Probates granted.		Letters of Administration.		Total.	
	Number of Estates.	Value of Estates.	Number of Estates.	Value of Estates.	No. of Estates.	Value of Estates.
		£		£		£
1900	1,505	3,916,020	947	815,012	2,452	4,731,032
1901	1,676	6,240,296	981	793,163	2,657	7,033,459
1902	1,729	5,188,341	1,053	619,279	2,782	5,807,620
1903	1,787	6,345,098	980	834,784	2,767	7,179,882
1904	1,854	5,536,494	996	619,469	2,850	6,155,963
1905	1,842	6,999,863	962	714,553	2,804	7,714,416
1906	1,927	6,697,600	925	831,837	2,852	7,529,437
1907	2,045	6,835,381	1,039	728,118	3,084	7,563,499
1908	2,114	7,054,170	980	784,402	3,094	7,838,572
1909	2,104	10,295,793	1,081	846,275	3,185	11,142,068

The figures here shown do not agree with those given by the Stamp Duties Department. The Court record gives the gross values of estates, inclusive of such estates as are found not to be subject to duty, but the Stamp Duties Department returns the net values of the estates, excluding those not subject to duty. The returns shown above are also swollen to some extent by probates taken out a second time. The large accretion to the value of estates during 1909 is due to the probate in one exceptionally large estate.

INTESTATE ESTATES.

An officer is appointed under the Wills, Probate, and Administration Act, 1898, as Curator of Intestate Estates. Moneys not claimed within six years are paid into the Consolidated Revenue Fund, and used for the public service of the State. A rightful claimant may obtain payment, but without interest, at any subsequent period.

The number of estates opened during 1909 was 598, from which the Curator received £49,895, and paid away £22,850; in connection with estates opened during previous years £18,393 was received, and £53,033 paid away. Commission and fees to the amount of £3,292 were paid into the Consolidated Revenue during the year. The revenue also benefited to the extent of £11,289 of unclaimed moneys, and on the other hand claims amounting to £1,182 were received for moneys which had been paid into the Consolidated Revenue.

BANKRUPTCY JURISDICTION.

The Bankruptcy law is administered by a Judge in Bankruptcy; but certain of the powers vested in the Judge are relegated to the Registrar in Bankruptcy. In the country districts many Police Magistrates and Registrars of District Courts are appointed as District Registrars, and have the same powers and jurisdiction as the Registrar in respect to the examination of bankrupts, the issue of summonses, &c. Appeals from decisions of the Registrar, or of a District Registrar, are made to the Judge in Bankruptcy, who also deals with questions relating to priority of claims. When any person becomes unable to pay his debts he may surrender his estate for the benefit of his creditors, or the latter may, under certain specified conditions, apply for a compulsory sequestration.

An officer of the Court, termed an official assignee, is deputed by the Judge to manage the estates of insolvents. He receives $2\frac{1}{2}$ per cent. commission on the amount realised, and $2\frac{1}{2}$ per cent. on the amount of dividends declared. In some cases the Court may also award him special remuneration. Creditors may accept, and the Court approve, a proposal for a composition, or for a scheme of arrangement, subject to the approval of a majority representing three-fourths of the value of all approved claims. If such a proposal has been accepted, one or two trustees may be appointed in place of, or in addition to, the official assignee. After the acceptance of a composition, or the approval of a scheme of arrangement, a bankrupt may have his estate released from sequestration. He is entitled also to a release when all the creditors have been paid in full, or when they have given him a legal quittance of the debts due to them. In other cases, a bankrupt may give notice, by advertisement, three months from the time of sequestration, of his intention to apply for a certificate of discharge, whereupon the Court receives a report from the official assignee, and may either grant or refuse an absolute order of discharge, suspend the operation of the order for a certain time, or grant an order subject to conditions respecting the future earnings or income of the bankrupt. The operations in Bankruptcy are detailed in discussing this matter in the chapter relating to Private Finance.

DIVORCE AND MATRIMONIAL CAUSES JURISDICTION.

Prior to the passing of the Matrimonial Causes Act of 1873, the Supreme Court of New South Wales had no jurisdiction in divorce. Under that Act the important grounds for divorce were adultery since marriage on the part of the wife, and adultery and cruelty on the part of the husband. The present law is contained in a Principal Act passed in 1892, and in the Amending Act of 1893, under which petitions for divorce may be granted for the following causes, in addition to those already mentioned:—

Husband v. Wife.—Desertion, or habitual drunkenness and neglect of domestic duties, for three years; refusal to obey an order for restitution of conjugal rights; imprisonment for three years and upwards; attempt to murder or to inflict grievous bodily harm, or repeated assaults and cruel beatings during one year preceding the date of the filing of the petition.

Wife v. Husband.—Adultery and desertion for two years; desertion, or habitual drunkenness, with neglect to support and cruelty, for three years; refusal to obey an order for restitution of conjugal rights; imprisonment for three years and upwards; imprisonment under sentences aggregating three years, within a quinquennial period; attempt to murder or to inflict grievous bodily harm, or repeated assaults and cruel beatings within one year of petition.

In order to obtain relief on any of these grounds, the petitioner must be domiciled in the State for three years or upwards at the time of instituting the suit.

Judicial separation may be granted for desertion without cause extending over two years, and nullity may be pronounced in cases of marriages which are void, or in which one of the parties is incapable of performing the duties of marriage, also where certain statutory requirements have not been observed.

The law provides for suits for the restitution of conjugal rights. Before such a suit may be brought, there must have been a request of a conciliatory character to the other party to return to cohabitation.

The number of divorces granted and other particulars will be found in the chapter "Social Condition."

DISTRICT COURTS.

District Courts have been established for the trial of civil causes where the property involved or the amount claimed does not exceed £400, and in cases where a title to land not exceeding £200 in value is in question. The Judges of these Courts also perform the duties of Chairmen of Quarter Sessions, in which capacity they try all prisoners, except those charged with capital crimes. District Courts are held during ten months of the year in the metropolis, and twice a year in all important country towns. The Judge is not assisted ordinarily by a jury; but in cases where the amount in dispute exceeds £20, either of the parties, by giving notice to the Registrar of the Court, may have a jury consisting of four or twelve men. On questions of law, and in respect of admission or rejection of evidence, an appeal lies to the Supreme Court.

The particulars of suits brought in the District Courts of the State during the last ten years are given in the following table:—

*Year.	Total causes commenced.	Causes tried.		Causes discontinued.	Judgment for Plaintiff by default, or confession or agreement.		Causes referred to Arbitration.	Causes pending and in arrear.	Total amount of Claims.	Court Costs of Suits.
		Verdict for Plaintiff.	Verdict for Defendant (including non-suits).		No.	No.				
	No.	No.	No.	No.	No.	No.	No.	No.	£	£
1900	4,432	2,072	249		1,324		3	784	122,211	10,743
1901	4,265	1,577	217		1,743		2	726	113,392	9,020
1902	4,904	1,161	266		2,554		2	921	126,788	11,278
1903	4,673	1,064	213		2,541		2	853	121,989	9,354
1904	4,042	833	198	1,201	1,014	1	795	103,007	8,944	
1905	3,687	763	186	995	999	2	742	100,362	9,227	
1906	3,277	489	191	1,014	972	2	609	123,510	8,708	
1907	2,971	388	156	852	903	2	670	134,991	9,470	
1908	3,565	371	194	898	1,239	3	860	166,680	9,346	
1909	4,314	479	191	1,206	1,398	5	1,035	204,642	10,853	

* Prior to 1906, year ended on 1st March.

Of the 670 causes heard during 1909, only 59 were tried by jury. During the same period there were 9 appeals from judgments given in District Courts, of which 8 were affirmed. There were also 7 motions for new trials, of which 4 were granted. The amount of judgment for the plaintiff during the year was £58,650.

MAGISTRATES' COURTS.—SMALL DEBTS CASES.

The jurisdiction of Magistrates' Courts since the Small Debts Recovery (Amending) Act, 1905, came into force on the 28th September of that year, is extended to include any action for the recovery of any debt or liquidated demand not exceeding £50, whether on balance of account or after admitted set-off or otherwise. The total number of small debts cases brought before Magistrates' Courts during 1909 was 32,637, in which the total amount awarded to plaintiffs by verdict of Court or judgment of Registrar was £87,432.

LICENSING COURTS.

In the metropolitan district of the State, the Court for granting licenses to sell intoxicants consists of the Metropolitan Stipendiary Magistrates for the time being, with the addition of one or more Justices of the Peace specially appointed for the purpose, bringing the number of occupants of the Bench up to seven, three of whom form a quorum. In the country districts the local Police Magistrate and two Justices of the Peace, also specially appointed, constitute the Court. There has been an absolute decrease in the number of licensed public-houses in the metropolitan district since 1881, due to the operations of the Licensing Act, which came into force that year. In 1882 the number of licensed houses was 3,063, in 1907 it was 3,022, but in 1909 a reduction to 2,923 was effected, representing a decrease of 99, or 3·27 per cent. since the local option vote of 1907.

The Liquor Amendment Act of 1905, which is to be construed with the Liquor Act of 1898, has removed several abuses in connection with the sale of intoxicating liquor, and makes better provision for the exercise of the principle of local option.

Under this law, in addition to stringent regulations regarding the licensing and management of hotels, the registration of clubs in which liquor is sold has been made compulsory. Registration is granted only to properly-conducted associations, established for a lawful purpose, on suitable premises. The Act also provides for the local option vote at each general election of the State Parliament. The publicans' or wine licenses in any electorate must not exceed the number existent at the commencement of the Act, except where an increase is granted on account of growth of population. The clubs must not exceed the number formed before November, 1905, and registered before March, 1906.

The following propositions are submitted to the electors at each general election—

- (a) That the number of existing licenses be continued ;
- (b) That the number of existing licenses be reduced ;
- (c) That no licenses be granted in the electorate ;
and where resolution (c) has been previously carried—
- (d) That licenses be restored.

In order to carry resolution (c) or (d) the votes in favour of such resolution must be three-fifths of the total votes given, and must represent 30 per cent. of the electors on the roll. Where resolution (c) is not carried the votes are added to those given for resolution (b).

In electorates where a majority of electors vote for reduction the licenses may be reduced by one-fourth. Where the "no license" resolution is carried, all licenses in the electorate must cease within three years, except in special cases in which the period may be extended.

The particulars of the local-option vote at the two elections which have taken place since the Act was passed are shown in the following statement :—

Year.	Electorates in which Electors carried.		Votes recorded for		
	Continuance.	Reduction.	Continuance.	Reduction.	No-license.
1907	25	65	209,384	75,706	178,580
1910	76	14	324,973	38,856	212,889

The proposition that no licenses be granted has not been carried in any electorate. In 1907 the proportion of votes recorded for continuance was 45·16 per cent. ; for reduction, 16·33 per cent. ; and for no-license, 38·51 per cent. At the last election, the percentages were :—Continuance, 56·35 ; reduction, 6·74 ; and no-license, 36·91.

Special Courts were constituted to effect the reductions in accordance with the Act. The time at which the reduced licenses will cease varies from six months, where the licensee has been convicted for breaches of the Liquor Acts, to three years, in cases of well-conducted houses. The latter period may be extended under certain conditions.

The following table gives particulars respecting the number of public houses, and the average number of residents to each :—

Year.	Licenses Issued.	Average number of Residents to each House.
	No.	
1900	3,163	428
1901	3,151	434
1902	3,132	445
1903	3,128	454
1904	3,098	467
1905	3,063	483
1906	3,055	496
1907	3,022	514
1908	2,980	537
1909	2,923	555

The number of wine licenses current during 1909 was 583 and 76 club licenses were issued. As a result of the first local-option vote taken in 1907, 293 hotel licenses, and 46 wine licenses, were ordered to cease on dates varying from 10th September, 1908, to 31st December, 1913.

PATENTS.—COPYRIGHT.—TRADE MARK CERTIFICATES.

The administration of the Patents, Copyright, and Trade Marks Acts has been transferred to the Federal authorities since 1st June, 1904. A patent granted under the Commonwealth Act is afforded protection in all the States, and the period for which it remains in force is limited to fourteen years. The copyright in a book, the performing right in a dramatic or musical work, and the lecturing right in a lecture, continue for forty-two years, or for the author's life and seven years, whichever period is the longer.

The registration of a trade-mark protects it for fourteen years, and may be renewed from time to time. Under the "Commonwealth Designs Act" an industrial design may be protected for five years, provided it is used in Australia within two years of registration.

Under the various Federal acts, arrangements may be made for the protection in other countries of patents, copyrights, trade-marks, and designs.

CRIMINAL STATISTICS.

Prior to the year 1891 the criminal statistics of New South Wales were compiled from the police returns, but it was found that the latter represented the total transactions of the various stations rather than the actual number of offenders. These returns were, therefore, discarded, and methods of tabulation from the Petty Sessions records adopted, which have ensured a more accurate statement of facts. Except where otherwise stated, the figures in the succeeding tables refer to persons only.

MAGISTRATES' COURTS.—PETTY SESSIONS.

In the Sydney, Parramatta, Newcastle, and Broken Hill districts the Courts of Petty Sessions are held by Stipendiary Magistrates, and in the country districts by Police Magistrates and Justices of the Peace, the latter being honorary officers. All persons entered in the charge-books of the police, except such as have been committed by a Supreme Court Judge or by a Coroner, must be brought to a Court of Petty Sessions, either to be treated summarily or to be committed to a higher tribunal. The jurisdiction of magistrates is limited generally to offences involving a sentence of six months' imprisonment, but under certain Acts sentences up to two years' imprisonment may be imposed. A magistrate is not empowered to pass cumulative sentences, but while an offender is undergoing a term of imprisonment for the committal of one offence, he may be brought up in a lower court to answer another charge, and may be sentenced to another term, to take effect from the expiry of the first sentence.

The number of offences charged at all Magistrates' Courts of Petty Sessions has decreased during the last three years, as the following table shows:—

	1907.	1908.	1909.	Decrease.
Children's Courts	2,636	2,090	2,445	per cent. 7·2
Other Magistrates' Courts ...	71,668	71,074	69,873	2·5
All Magistrates' Courts	74,304	73,164	72,318	2·7

As regards persons charged, and where several offences were listed against one person at the same time, account is taken of the most important charge only. The persons brought before the magistrates in all Courts, exclusive of those charged as of unsound mind, numbered 64,502, of whom 1,690 were charged in the Children's Court. As compared with the total number for 1907, viz., 67,183, the decline in the number of offenders is 2,681. In 1903 the offenders were 43·24 per 1,000 of population; in 1909 the proportion was 39·7.

The following table summarises the operations of all Magistrates' Courts:—

Procedure.	Persons charged before Magistrates.	Summarily treated.			Committed to higher Court.
		Convicted.	Discharged.	Total.	
By arrest... ..	40,865	37,448	2,448	39,896	969
By summons	23,637	18,319	5,206	23,525	112
Total	64,502	55,767	7,654	63,421	1,081

The number 1,081 committed to higher courts represents 1·7 per cent. of the total persons charged; the remainder, representing 98·3 per cent., were summarily treated, and convictions resulted in 86 per cent. of the charges. A division of accused persons, according to sexes, shows that female offenders

number 7,545, being 11·7 per cent. of the total. The relative seriousness of offences is evident from the fact that 1·2 per cent. of females charged were committed to higher courts, as against 1·7 per cent. of males. Following are the figures :—

Sex.	Charged before Magistrates.	Summarily treated.			Committed.
		Convicted.	Discharged, etc.	Total.	
Males	56,957	49,422	6,544	55,966	991
Females	7,545	6,345	1,110	7,455	90
Total, Persons	64,502	55,767	7,654	63,421	1,081

The figures of preceding table, reduced to a population basis, show the following result :—

Sex.	Per 1,000 of Population.				
	Charged before Magistrates.	Summarily treated.			Committed.
		Convicted.	Discharged, etc.	Total.	
Males	65·43	56·77	7·52	64·29	1·14
Females	10·00	8·41	1·47	9·88	0·12
Persons	39·70	34·33	4·71	39·04	0·66

Comparing the male and female offenders with the population, it appears that 65·43 per 1,000 males and 10·00 per 1,000 females were charged with offences against the law. The summary convictions give the proportions of 56·77 per 1,000 males and 8·41 per 1,000 females; and in the case of committals, 1·14 males and 0·12 females.

Since the appointment of Stipendiary Magistrates in the metropolitan district, a greater proportion of cases have been summarily treated, and it is noticeable that the proportion of acquittals and discharges has diminished greatly. Prior to 1880 about 25 per cent. of the persons brought before magistrates were discharged, but in no year since 1885 was the proportion more than 16·6 per cent. until 1895, when the figures reached 20·2. Since that year the percentage has again declined, falling as low as 11·8 in 1909. The following table shows the proportion of summary convictions by magistrates, of acquittals and discharges, and the committals to higher courts :—

Year.	Summary Convictions.	Acquittals and Discharges.	Committals to Higher Courts.
	per cent.	per cent.	per cent.
1870	69·0	24·7	6·3
1880	76·9	18·4	4·7
1890	80·4	16·0	3·6
1900	83·1	14·9	2·0
1905	84·5	13·1	2·4
1906	84·1	13·9	2·0
1907	86·5	11·8	1·7
1908	87·0	11·5	1·5
1909	86·5	11·8	1·7

An investigation into the nature of the offences, of which the 55,767 persons summarily convicted in 1909 were accused, shows that there were 1,370 persons convicted of offences against the person, 3,391 of offences against property, and 51,006 of other offences, mainly of a minor character, such as drunkenness, disorderly conduct, and bad language—also vagrancy, and breaches of various Acts. It is evident, therefore, that the somewhat large number of offenders summarily convicted consists mostly of persons who cannot be included among the criminal classes, the total number of offenders against the person and against property, being 4,761 out of a total of 55,767, representing only 8·5 per cent. The following is a classification of the offenders summarily convicted, together with the proportions per 1,000 of population during each of the last five years :—

Year.	Against the Person.	Against Property.	Other Offences.	Total.
NUMBER OF SUMMARY CONVICTIONS.				
1905	1,374	3,266	46,998	51,638
1906	1,500	3,469	49,840	54,809
1907	1,587	3,209	53,307	58,103
1908	1,494	3,282	52,854	57,630
1909	1,370	3,391	51,006	55,767
PER 1,000 OF POPULATION.				
1905	0·93	2·21	31·78	34·92
1906	0·99	2·29	32·91	36·19
1907	1·02	2·06	34·29	37·37
1908	0·99	2·35	32·94	36·28
1909	0·84	2·10	31·39	34·33

The following table gives a classification of summary convictions of males and females during the years 1906 and 1909, excluding cases treated in Children's Courts which were established in October, 1905 :—

Offences.	Summary Convictions.					
	1906.			1909.		
	Males.	Females.	Total.	Males.	Females.	Total.
Against the person	1,265	172	1,437	1,165	127	1,292
Against property	2,323	377	2,700	2,277	357	2,634
Against good order	29,615	7,206	36,821	33,069	5,213	38,282
Not included in the preceding...	11,378	779	12,157	11,606	579	12,185
Total	44,581	8,534	53,115	48,117	6,276	54,393

In order to show the increase or decrease of offences in each group, the figures for 1909 are stated as percentages of those for 1906 :—

Offences.	Convictions for 1909, per cent. of 1906.		
	Males.	Females.	Total.
Against the person... ..	92·0	73·8	89·9
Against property	98·1	94·6	97·6
Against good order	111·6	72·3	103·9
Not included in the preceding	102·0	74·3	96·9
Total	107·9	73·5	102·4

In the case of the males there has been a decrease in the more serious offences, but on the whole there has been a rise of nearly 8 per cent., caused mainly by offenders against good order. With regard to the females the decrease is marked in all classes of offences, and may be ascribed in a large measure to the reorganisation of the penological methods applied to female offenders which is described subsequently.

The following table gives the total number of summary convictions of males and females in all magistrates' Courts, with the proportion per 1,000 of the population, for each year of the last quinquennial period:—

Year.	Summary Convictions.			Per 1,000 of the Population.		
	Males.	Females.	Total.	Males.	Females.	Total.
1905	42,801	8,837	51,638	54·55	12·73	34·92
1906	46,211	8,598	54,809	57·33	12·14	36·19
1907	49,894	8,209	58,103	60·06	11·34	37·37
1908	49,727	7,903	57,630	58·19	10·70	36·28
1909	49,422	6,345	55,767	56·78	8·41	34·32

The rate per 1,000 of the male population, though fluctuating during the period, on the whole increased from 54·55 in 1905 to 56·78 in 1909; the proportion of females shows a decrease of 34 per cent.

A classification of the punishments on summary conviction in 1909 is supplied below:—

Offences.	Fines Paid.	Imprisoned in default.	Imprisoned without option.	Bound over and released on probation.	Other Punishments.	Total.
Against the person	904	117	220	94	35	1,370
Against property	1,277	646	693	571	204	3,391
Against good order	19,205	15,451	1,011	470	2,441	38,578
Not included in the preceding	10,830	813	475	128	182	12,428
Total	32,216	17,027	2,399	1,263	2,862	55,767

Thus the number of convicted persons sentenced to imprisonment, without the option of a fine, was 2,399, and adding those incarcerated in default of paying the fine or of finding security, viz., 17,027, the total number imprisoned was 19,426 out of 55,767 summarily convicted by the magistrate, or 35 per cent. The number of fines paid was 32,216; but many of those who were imprisoned in default of immediately paying the fine were discharged before the term expired, the amount having been paid in the meanwhile. The total sum received by way of fines during 1909 was £42,648, of which amount £21,578 was paid into the Consolidated Revenue, £10,311 was given to the Police Reward Fund, £3,957 to municipalities, and £6,802 to informers and others.

With reference to first offenders, the Crimes Act provides that when a person who has not been previously convicted of an indictable offence is convicted of a minor offence, and is sentenced to penal servitude or imprisonment, the court may suspend the sentence upon his entering into a recognizance, with or without sureties, for his good behaviour during the period over which his sentence extends, the probationary term, however, being not less than one year. Before he is permitted to depart from custody he is examined for future identification, and during the period covered by his

sentence must report himself to the police every three months. If he fail to do so, or lapse into crime, he may be arrested and imprisoned for the unexpired term of his sentence; but should his behaviour be good throughout the whole of the probationary period, he is regarded as not having been convicted; and if at any subsequent period he is arrested for another offence a previous conviction may not be urged against him. During the year 1909, 263 persons, convicted at the Magistrates' Courts, and 97 persons at the higher courts, making a total of 360, including 82 females, were released as first offenders.

CHILDREN'S COURTS.

The first Children's Court under the Neglected Children and Juvenile Offenders' Act was opened in October, 1905, at Paddington, within the metropolitan area, under the presidency of a specially-appointed magistrate. Special courts have since been established in suburban and country districts. The main purpose of these courts is to remove juvenile offenders as much as possible from the tainted surroundings of a public court. Magistrates exercise powers in respect of children and offences committed by or against children. They also possess the authority of a Court of Petty Sessions or Justice under the Children's Protection Act and the Infant Protection Act. During the year 1909 the Children's Courts dealt with the cases of 3,789 males and 340 females, or a total of 4,129. Of these cases 2,439 were for orders such as the disposal of neglected and uncontrollable children, and the maintenance of children.

The Neglected Children's Act is designed to prevent children from associating with reputed thieves, and otherwise provides for the protection and reformation of neglected or uncontrollable children and juvenile offenders. The physical and moral interests of the children engaged in street trading are conserved, with which object, girls under 16 years of age are prohibited from trading, and only boys between the ages of 10 and 16 years are licensed, with restricted hours and under police supervision. During the year ended 31st March, 1909, licenses were issued to 755 children, of whom 547 (boys) were under age 14. The objects of the Act are so admirable that similar legislation has been passed in other States of Australia.

The following table shows a classification of offenders dealt with by the Children's Courts during 1909:—

Offences.	Summarily treated.				Committed to higher Court.		Total.		
	Convicted.		Discharged or Withdrawn.		M.	F.	M.	F.	Total.
	M.	F.	M.	F.					
Against the person ...	62	16	47	14	35	1	144	31	175
Against property ...	713	44	114	7	2	...	829	51	880
Against good order ...	290	6	46	8	...	...	336	14	350
Other ...	240	3	37	4	...	1	277	8	285
Total ...	1,305	69	244	33	37	2	1,586	104	1,690

The figures shown above and other particulars of Children's Courts are included in the tables relating to Magistrates' Courts.

An interval of four complete years having elapsed since this type of Court was instituted, it is reasonable to assume that a fair basis of comparison has been established. The following figures will show the directions in which improvement has been effected, and in which increasing vigilance is necessary

The figures represent the persons treated and the number of convictions recorded in each class during the last four years.

Offences.	Persons Treated.				Convictions.			
	1906.	1907.	1908.	1909.	1906.	1907.	1908.	1909.
Against the person	168	206	185	175	63	75	85	78
Against property...	922	929	951	880	769	817	696	757
Against good order	549	647	465	350	473	579	426	296
Other	523	676	280	285	389	600	223	243
Total..	2,162	2,458	1,881	1,690	1,694	2,071	1,430	1,374

From these figures it is apparent that, except in the case of the first group, there has been a decided diminution since 1906, both as to cases treated and as to convictions. In the first group improvement is not noticeable.

APPREHENSIONS.

In the following table are given the total number of persons apprehended by the police, and the proportion per 1,000 of the population at intervals since 1892 :—

Year.	Arrests.		Year.	Arrests.	
	Number.	Per 1,000 of Population.		Number.	Per 1,000 of Population.
1892	40,445	34·4	1906	39,609	26·16
1895	36,939	29·5	1907	41,842	26·91
1900	37,462	27·7	1908	41,301	26·00
1905	38,172	25·8	1909	40,865	25·15

The above figures relate to the total number of arrests made by the police in each year irrespective of individuals.

DRUNKENNESS.

During 1909 the convictions for drunkenness with and without disorderly conduct numbered 27,363. The following table shows the convictions during the last ten years :—

Year.	Convictions.			Per 1,000 of Population.		
	Males.	Females.	Total.	Males.	Females.	Total.
1900	19,799	4,063	23,862	27·70	6·35	17·60
1901	19,569	4,234	23,803	27·28	6·51	17·40
1902	19,543	4,789	24,332	26·66	7·23	17·44
1903	19,788	4,810	24,598	26·46	7·16	17·33
1904	18,116	4,827	22,943	23·71	7·06	15·86
1905	18,996	5,007	24,003	24·21	7·21	16·23
1906	20,589	4,664	25,253	25·54	6·58	16·68
1907	23,573	4,536	28,109	28·38	6·26	18·08
1908	23,780	4,087	27,817	27·90	5·54	17·58
1909	23,616	3,747	27,363	27·13	4·96	16·84

The figures quoted in the foregoing table refer to total cases.

Arrests for drunkenness are chiefly in large towns, and it is only natural to expect that, with an increase in the population of the towns, there should be an increase in the apprehensions for drunkenness. Relating the convictions to the population of the State, there was apparently a lowering of the rate per 1,000 during the middle period, but the relative convictions of recent years point towards a fairly uniform rate.

The actual number of distinct persons convicted after arrest for drunkenness in 1909 was 17,826, viz., 15,866 males and 1,960 females. The Liquor (Amendment) Act, 1905, which came into force on the 1st January, 1906, contains some stringent clauses regarding the sale of liquor at licensed premises. Except in cases of sickness or accident, no person under the age of 18 years may be supplied with liquor, and persons under 17 years of age are not allowed in the bar of an hotel; females under 21 years, except in the case of a wife and daughter of a publican, are not permitted to serve liquor. Hotels must be closed during the time of voting for a Parliamentary election; they are closed on Sunday, but liquor may be sold to *bonâ fide* travellers, lodgers, servants, or inmates, provided that in the case of a traveller the place where he lodged on the previous night is at least 20 miles distant, if in the county of Cumberland, or at least 10 miles if in the country districts; a publican is not compelled to sell to a traveller.

The question of the relative prevalence of drunkenness, as tested by the convictions for that offence in the different States, has received considerable attention; but, comparing the figures for various States, regard must be had to the position of the law and to the manner in which it is administered. In Victoria, for instance, a person is not convicted of drunkenness unless also guilty of disorderly conduct; and offenders are generally discharged on their first appearance, or in the event of arrest on Saturday and detention in custody till Monday. The extent of the area supervised and the density of population in large towns must also be taken into consideration, for it is evident that the law will be less strictly enforced in the sparsely-settled districts of Queensland, South Australia, and Western Australia, than in the more thickly populated parts of the Commonwealth. As a result of such widely differing conditions, it is impossible to obtain facts for the different States upon a comparable basis.

There has been a growing tendency to regard drunkenness as a disease rather than as an offence, and to advocate that the drunkard be not sent to gaol, but to an asylum specially provided for his reception. The system of dealing with these offenders by committing them to gaol for short sentences has proved unsatisfactory, since the same persons are constantly reappearing before magistrates. During 1909 out of a total of 17,826 distinct persons convicted of drunkenness, 4,351, or 24.4 per cent., were brought up more than once. An examination of the criminal records of the State, over a period of years, also discloses the fact that more than 40 per cent. of the gaol population commenced their career with an imprisonment on a charge of drunkenness.

To remedy these deficiencies the Inebriates Act provides for special treatment. When a person has been convicted of drunkenness three times within a year he may be placed in an institution for a period extending from six to twelve months, and the period of detention may be further extended. A portion of Darlinghurst Gaol, set apart in August, 1907, for the reception of habitual inebriates, is now reserved for males; the females are treated at the State Reformatory for Women and at the Shaftesbury Institution; 11 males and 33 females remained under control on the 31st December, 1909. In all 49 males and 53 females have been received into the Inebriates Institution; and the majority of those released after treatment have conducted themselves satisfactorily.

INQUESTS.

In all cases of violent or unnatural death, it is the duty of the Coroner to hold an inquiry into the cause, and to commit for trial any person found guilty by the jury of the crime of manslaughter or of murder. Under the Coroner's Court Act, 1904, a Coroner is empowered to hold an inquisition, sitting alone, but upon request of a relative, of the secretary of any society of which the deceased was a member, or on the order of the Minister of Justice, a jury of six is called. Every death which takes place in gaol or in a lock-up must be investigated, and inquests must be held on the bodies of all persons executed. Where no Coroner has been appointed, or where the officer is unable to hold the usual inquest, a magistrate may hold an inquiry; as such he is not empowered to commit a suspected person for trial, but must terminate the inquiry in all cases where facts are disclosed which point to the criminality of a person, and direct the police to prosecute at the nearest police court. Stipendiary or Police Magistrates have the powers of Coroners in all parts of the State, except in the metropolitan police district. The number of deaths during 1909, the causes of which were investigated by Coroners or Magistrates, was 976 of males and 295 of females, giving a total of 1,271 inquests and magisterial inquiries. Of the 1,271 deaths, the verdicts of the courts were that 965 were caused by violence, and of these cases 145 males and 44 females were found to have committed suicide.

The rates of suicides per 1,000 of the mean population since 1890 in quinquennial periods are as follows:—

1890 ...	...	...	...	...	...	...	1.07
1895 ...	...	...	...	...	...	...	1.29
1900 ...	...	...	...	...	...	...	1.07
1905 ...	...	...	...	...	...	...	1.15
1909 ...	...	...	...	...	...	...	1.19

It is provided that when any real or personal property has been destroyed or damaged by fire, the Coroner of the district shall hold an inquiry if he consider the case needs investigation. The procedure is similar to that followed in inquests held in connection with cases of death, and the Coroner, in accordance with the decision of his jury, may commit a person for trial on a charge of arson. Inquiries were held during 1909 into the origin of 121 fires, and the cause was ascribed to accident in 6 cases, arson in 23, carelessness in 2 cases; in 90 instances there was insufficient evidence.

HIGHER COURTS—CRIMINAL JURISDICTION.

A Judge of the Supreme Court presides over the Central Criminal Court of Gaol Delivery held quarterly at Sydney, when all prisoners are tried by a jury of twelve, chosen by lot from the panel provided by the Sheriff. In capital cases the right to challenge, both by the Crown and by the accused, is limited to twenty jurors, except for cause shown, and in cases other than those in which the sentence of death may be imposed, whether felonies or misdemeanours, the number challenged may not exceed eight. Under the Criminal Law and Evidence Amendment Act of 1891, every person charged with an indictable offence, and the husband or wife of the person so charged is competent, but may not be compelled, to give evidence in every court on the hearing of such charge. Prior to the passing of this Act, such a privilege was granted only to those charged with bigamy. At the close of the case for the prosecution, an accused person may also make a statement in his defence without rendering himself liable to examination thereupon, either by Counsel for the Crown or by the Court. The "Accused Persons Evidence Act of 1898" provides that it shall not be lawful to comment at the trial of any person upon the fact that he has refrained from giving evidence on oath on his own behalf. The verdict of the jury must be

unanimous, and they may be locked up until they give a verdict or are discharged by the Court. If no verdict is returned, the prisoner may be tried again before another jury.

In addition to the sittings of the Supreme Court held in Sydney, the Judges go on circuit once in each half-year, and hold Courts of Gaol delivery, called Circuit Courts, to deal with the more serious class of criminal cases, especially those in which the capital penalty is involved, and to hear civil causes at certain circuit towns; in the north, at Newcastle, Maitland, Tamworth, Armidale, Grafton, and Lismore; in the west, at Bathurst and Dubbo; and in the south, at Goulburn, Wagga Wagga, Albury, Deniliquin, and Hay.

The Courts of Quarter Sessions are held by Chairmen, who also perform the duties of Judges of the District Courts. There are seven Chairmen of Quarter Sessions; two of these preside over the Courts in the metropolitan district, and one each in the following districts:—Southern and Hunter, south-western, northern, north-western, and western. All offences, except those involving the capital penalty, are within the jurisdiction of the Court. On the trial of prisoners at Quarter Sessions, at the request of the prisoner's counsel, the Chairman must reserve questions of law for the consideration of the Supreme Court.

During the year 1909, there were 1,032 males and 103 females committed for trial to the Higher Courts of the State, of whom 1,081 were committed by magistrates in Petty Sessions, and 54 by Coroners. The number of persons committed during any one year does not necessarily coincide with the number placed on trial during the same period, as some persons committed at the end of one year are not tried until the following year. The following table shows the results in the cases of these accused persons for 1908 and 1909 in comparison:—

Sex.	1908.			1909.		
	Charged.	Convicted.	Discharged, withdrawn, &c.	Charged.	Convicted.	Discharged, withdrawn, &c.
Males	1,025	564	461	1,032	565	450
Females	109	50	59	103	54	49
Total	1,134	614	520	1,135	619	499

Classifying these accused persons according to the nature of the offences with which they were charged, it is found that, in the case both of males and females, offences against property are the most numerous, followed by offences against the person. A statement is given below of the offences of the persons convicted in higher courts during 1909:—

Offences.	Males.		Females.		Total.	
	Number.	Per cent. of total.	Number.	Per cent. of total.	Number.	Per cent. of total.
Against the person	133	23·5	13	24·0	146	23·6
Against property	351	62·1	31	57·4	382	61·7
Forgery and against the currency	55	9·7	5	9·2	60	9·7
Against good order	2	0·4	1	2·0	3	0·5
Not included in preceding	24	4·3	4	7·4	28	4·5
Total	565	100·0	54	100·0	619	100·0

The following statement shows the character of the principal offences of persons convicted in higher courts during each year since 1904, and affords distinct evidence of reduced crime :—

Offences.	1904.	1905.	1906.	1907.	1908.	1909.
Against the person	153	170	142	153	144	146
Against property	630	550	446	394	384	382
Forgery and against the currency ...	65	69	60	50	56	60
Against good order	13	6	8	8	12	3
Other	29	24	42	24	18	28
Total	890	819	698	629	614	619

GAOLS.

There are in New South Wales 30 gaols of all kinds ; of these 6 are principal, 12 minor, and 12 police gaols. The total number of cells in all gaols is 2,193.

Prison Systems.

The various gaol establishments have been graded carefully with a view to the concentration and organisation of the gaol population. As a result of this grading a large number of establishments have been closed, their population being removed to other centres. Thus more efficient supervision is secured, under a reduced staff, ensuring economies in administration. This reorganisation is a corollary of the comprehensive endeavour of the Comptroller-General of Prisons to make the treatment of prisoners a system of education and reform, as opposed to the former conception of imprisonment as a punitive and deterrent measure merely. To this end sentences of sufficient length are arranged in three divisions, and the conduct of the prisoner regulates his passage from the penal stage to relaxed conditions, and finally his release to employment on probation.

The principle of restricted association has been in force for several years, with results which have amply justified its adoption. Previously, prisoners were classified in various groups, determined mainly by the length of sentence ; and their free association was doubtless not productive of mutual benefit or improvement. Now, however, meals are given in the cells, and association at work, religious instruction, and exercise are subject to the closest supervision. As one result of the reorganisation scheme, apart from the moral effect on the prisoners, a considerable reduction in the gaol expenditure has been effected, although cells are lighted at night to a reasonable hour, and other arrangements to carry out the system of isolation have necessitated considerable extra expenditure. Prisoners serving sentences of one month and upwards, also those on trial and remand, are allowed the privilege of reading selected books, and the prison libraries of the State contain 25,170 volumes.

Darlinghurst Gaol is used as a distributing centre, and for prisoners awaiting trial at Sydney Courts or under medical observation ; Parramatta Gaol is reserved chiefly for confirmed offenders ; the less incorrigible are sent to Bathurst ; Goulburn receives first-offenders ; Maitland receives prisoners for sentences not exceeding six months from the northern districts ; female offenders are committed to the State Reformatory for Women at Long Bay ; and offenders against good order are placed at suitable smaller establishments.

LAW AND CRIME.

The number of prisoners in confinement at the close of each year during the last decennial period will be found below. Prisoners have been classified under two heads—those under sentence, and those waiting trial.

Year.	Under sentence.		Awaiting trial.		Total.		
	Males.	Females.	Males.	Females.	Males.	Females.	Total.
1900	1,612	179	100	6	1,712	185	1,897
1901	1,499	197	106	10	1,605	207	1,812
1902	1,516	182	130	7	1,646	189	1,835
1903	1,544	167	97	8	1,641	175	1,816
1904	1,544	175	128	30	1,672	205	1,877
1905	1,414	155	94	15	1,508	170	1,678
1906	1,281	149	76	13	1,357	162	1,519
1907	1,275	162	47	6	1,322	168	1,490
1908	1,258	159	72	11	1,330	170	1,500
1909	1,196	137	86	11	1,282	148	1,430

The prisoners under sentence at the end of the year 1909 are exclusive of 11 male and 33 female inebriates.

Particularly noticeable is the decrease both in the number of prisoners under sentence and in those awaiting trial, with a consequent decrease in the total gaol population, which, related to the increase of the general population of the State over the same period, bears striking evidence as to the restriction of the lawless element in our social system. It is noticeable also that the reduction is practically coincident with the introduction of the reformatory system of treatment. The decreasing ratio of prison population to total population is shown in the following figures:—

	Prisoners per 1,000 of total population.					
1899	1.476
1900	1.390
1901	1.313
1902	1.304
1903	1.268
1904	1.284
1905	1.122
1906992
1907947
1908935
1909864

A large proportion of the prisoners received into gaol on summary conviction consists of persons imprisoned in default of payment of fines. Under the Justices Act, 1902, imprisonment for non-payment of an amount adjudged to be paid on order of a Justice may be curtailed by payment of a portion of the fine, for which a proportionate part of the sentence may be remitted. The following table shows that large numbers of prisoners avail themselves of the provisions of the Act, with consequent material diminution in the term of confinement:—

	1905.	1906.	1907.	1908.	1909.
Persons committed to gaol in default of payment of fines	7,347	6,853	6,635	7,158	6,471
Prisoners subsequently released after paying portion of fines	1,247	1,327	1,510	1,538	1,435
Amount received at gaol as part-payment of fines	£2,665	£2,387	£2,766	£3,193	£2,924
Days prisoners would have served if portion of fines had not been paid	33,487	33,794	42,507	46,665	42,760
Days remitted by part-payment of fines	22,389	14,100	28,379	29,147	29,773

The Crimes Act also provides for the payment of fines in instalments; frequent application of this principle would considerably reduce the prison population and tend to greater economy.

The Habitual Criminals Act, which came into operation in 1905, gives the judge the power of declaring as a habitual criminal any prisoner who has been convicted previously of a similar offence, as mentioned in the Act, on three, or in certain cases two occasions, either within or without the State. The definite sentence for the actual offence is served as an ordinary prisoner, after which the offender is detained for an indefinite term on account of his record, until, in the opinion of the authorities, he is deemed fitted for freedom. During 1909 nine prisoners were treated under this Act, making a total of forty-one persons since the system came into operation.

It is to the credit of this State that it is the first country in the world to bring into operation such a complete system of indeterminate sentences, upon the lines of which other States have followed. As a deterrent to professional crime this method of treatment is excellent, and its moral effect on prisoners who are not habitual criminals is undoubted; moreover the benefit to society resulting from the removal of habitual criminals, and of their influence, is material.

The question of the treatment of female offenders has received considerable attention. Until August, 1909, Biloela Gaol was the principal prison for females, but, owing to the lack of separate accommodation for the different classes of offenders, efforts at reformation were rendered futile. Since that date female offenders in the metropolitan area, and those serving long sentences at Bathurst, have been sent to the new State Reformatory for Women at Long Bay. This institution is supplied with all the requirements of the modern scheme of prison reform. Provision has been made for the segregation of the prisoners, each inmate being provided with a separate room when not working. Means are available for subjecting the various classes to a thorough system of discipline, of industrial occupation, and of other essentials of a reformatory and deterrent character. With the exception of the officer-in-charge, the visiting surgeon, and several male warders employed outside for protective and other necessary purposes, the State reformatory is conducted by female officers. A specially-constructed tram-car conveys the prisoners into the institution from the city courts.

A special establishment, the Shaftesbury Institution, on the South Head Road, has been opened, where women whose sentences are sufficiently long to allow of reformatory treatment, undergo the intermediate stage in their detention, by which they are trained for freedom in the same way as male prisoners. Strict discipline is maintained; the various classes of offenders are not permitted to associate; a sound and practical domestic training is imparted; and particular importance is attached to gardening and out-door work as curative influences. The institution is in an ideal situation, and the appearance of a gaol is eliminated as far as possible. The inmates do not wear prison clothing, and by means of the monetary and other privileges, to which their conduct may entitle them, they may purchase dress material and clothing and dietary additions, and generally improve their conditions, prior to discharge to situations which have been found for them, and in which they are supervised during their probationary freedom. Thus, New South Wales has initiated a humane system of treatment on the lines of which other States are following.

During 1909 an innovation was made by the introduction of a modified form of physical drill for women, and has resulted in a great improvement in the health of the female prisoners and inebriates.

Under the Prisons Act, 1899, a Visiting Justice is appointed to visit each prison at least once in every week. Judges of the Supreme Court may at any time visit and examine any prison, and similar power to examine is given to all Justices of the Peace. The Visiting Justice is empowered to hear and determine all complaints which may be made against a prisoner for disobeying the rules of the gaol, or for having committed any offence, and may pass a sentence of confinement in a solitary cell for a term not exceeding seven days. In cases of persistent insubordination, a charge upheld before two or more Justices of the Peace renders the prisoner liable to a sentence of close confinement for one month; and if the culprit is a prisoner convicted of felony, or is serving a sentence of hard labour, a punishment of personal correction may be awarded. With the introduction of the prison reform, drastic forms of punishment, such as long terms of solitary confinement have been abandoned in favour of deprivation of privileges. Experience shows that the latter method is very effective, only 1·3 per cent. of the prisoners having been punished during the year, and, generally speaking, their offences were not of a serious nature.

There were 45 persons—40 males and 5 females—imprisoned for debt during the year 1909. As the time of detention, as a rule, extends over a short period, the number of debtors in confinement at any given time is not large, and on the 31st December, 1909, there were only two males in gaol from this cause. The number of persons sent to gaol for debt during each of the last ten years is given in the following table:—

Year.	Males.	Females.	Total.	Year.	Males.	Females.	Total.
1900	59	3	62	1905	63	12	75
1901	49	2	51	1906	57	14	71
1902	57	1	58	1907	42	4	46
1903	53	6	59	1908	43	3	46
1904	62	7	69	1909	40	5	45

The following table gives the number of the prisoners employed at the end of 1909, and their principal occupations. Suitable occupation of a profitable and useful nature is found for the major portion of the gaol population, but there are many prisoners whose services are not available for labour, such as those exempt from work on account of medical reasons or incapacity. The net value of the labour done during 1909 amounted to £24,673, but this sum is taken to refer exclusively to labour of a productive character.

Needlework and Knitting ...	147	Outdoor work ...	49
Tailoring... ..	121	Carpentering ...	51
Sweeping and Cleaning ...	107	Laboring ...	53
Shoemaking	101	Blacksmithing and Tinsmithing	33
Washing and Gardening ...	69	Other	354
Matmaking	45	Unemployed	177
Hatmaking	69		
Cooking	54	Total	1,430

At most of the gaols attention is paid to agriculture, the produce of vegetables and forage during the year being valued at £1,225.

Persons committed for trial are allowed to see their legal advisers and others who may visit them in reference to their case. They are allowed to wear their own clothing; and other privileges, consistent with safe custody, are granted to them. Persons under examination are not allowed to have any communication made to them while in the prison except by their legal advisers, unless such a proceeding is specially sanctioned by the Justice conducting the examination.

For good conduct and industry, prisoners may be recommended for a remission of sentence, in accordance with a classified scale. No remission is granted where the sentence is less than three months, nor in respect of any period passed in separate treatment. The remission scale does not affect sentences commuted from capital convictions, in which case as a rule the prisoner may petition for release after serving twenty years. Generally speaking, the treatment which favours the lesser offender has been adopted in other parts of gaol routine.

Under the Crimes Act a prisoner under sentence may be released under license, within specified limits, during the unexpired portion of his sentence. Sureties are required, unless under exceptional circumstances, for good behaviour and observance of the conditions of the license. The liberated prisoner is required to report periodically to the police; and is liable to cancellation of license, and to recommittal during the balance of his sentence, for any breach of the conditions. This system was instituted in September, 1891, and at the end of 1909 there were 27 licenses in force—those of 24 males and 3 females.

Although many of the prisoners are received into gaol under most unfavourable physical conditions, the death-rate is light, and even shows signs of decrease. More especially in the country districts, persons in the last stages of disease, and aged and infirm paupers, for whom a hospital or asylum is the befitting destination, are received into gaol and an undue inflation of the death-rate necessarily ensues. Comparison between the death-rate in gaols and that of the general population is unfair, but the death-rate of all persons received into gaol is at present not greater than that of the general population of like ages, while the death-rate of habitual criminals is largely below the average. In the following table the number of deaths, exclusive of those resulting from executions, is given for 1890, and subsequent periods, together with the death-rate per 1,000 of the average number of prisoners in confinement during the year:—

Year.	Deaths.			Death-rate per 1,000 persons in confinement.
	Males.	Females.	Total.	
1890	24	2	26	11.50
1895	19	3	22	8.83
1900	15	3	18	9.02
1905	12	1	13	6.98
1906	5	3	8	4.90

POLICE.

The Police Force of New South Wales is administered by the Chief Secretary of the State, and is under the immediate control of the Inspector-General.

At the end of 1909 the strength of the establishment was distributed as follows:—

Superintendents	...	13	Constables	...	2,131
Inspectors	...	11	Detectives	...	20
Sub-Inspectors	...	38	Black trackers	...	66
Sergeants	...	222	Female Searchers	...	5
				Total	2,506

In the following table are quoted the number of police, exclusive of black trackers and female searchers, in the metropolitan and country districts at the end of each of the last ten years. It will be seen that with the growth of population the force is steadily increasing in strength, the present proportion being 1 police officer to every 676 inhabitants.

Year.	Metropolitan.	Country.	Total.	Number of Inhabitants to each Police Officer.
1900	888	1,254	2,142	637
1901	909	1,263	2,172	635
1902	950	1,272	2,222	633
1903	979	1,291	2,270	631
1904	1,006	1,304	2,310	633
1905	1,048	1,294	2,342	639
1906	1,035	1,307	2,342	654
1907	1,057	1,324	2,381	661
1908	1,086	1,331	2,417	664
1909	1,090	1,345	2,435	676

The protection of life and of property are not the only duties which the police are called upon to perform. A large portion of their time is occupied in the collection of agricultural and stock schedules, the returns of works and manufactories, and other similar duties. In many cases they act as clerks of petty sessions and warden's clerks, mining registrars, gaolers, inspectors under various Acts, collect information for electoral rolls, and fill other offices having no direct connection with police duties.

To secure better provision for the regulation of traffic within the Metropolitan Police District, the Metropolitan Traffic Act was passed during the year 1900. Under this law the police generally are empowered to control the street traffic, and in 1909 there were 85 officers specially detailed for this work. The duties of the police vary so much in the different States that any comparisons which do not take this fact into consideration are considerably vitiated. Differences in area and physical characteristics of the country must also be regarded in dealing with the figures shown in the following table, which exhibits the strength of the police force, exclusive of trackers, in each State and New Zealand at the close of the year 1909 :—

State.	Police.	To each Police Officer.	
		Inhabitants.	Square miles.
New South Wales	2,435	676	127
Victoria	1,593	812	55
Queensland	966	599	694
South Australia	424	981	2,131
Western Australia	491	560	1,988
Tasmania	234	799	112
New Zealand	775	1,268	134

COST OF POLICE AND PRISON SERVICES.

The following table shows the amount expended in maintaining the police and prison services of New South Wales since 1904, and also the amount of fines paid into the Consolidated Revenue, and the net return from prison labour :—

Expenditure and Revenue.	1904.	1905.	1906.	1907.	1908.	1909.
Expenditure—						
Police	£ 435,974*	£ 434,684*	£ 427,285*	£ 443,172*	£ 446,747*	£ 449,718*
Penal establishments ...	119,874	100,947	98,893	98,440	101,668	120,242
Total	555,848	535,631	526,178	541,612	548,415	569,960
Revenue—						
Fines	15,152	16,636	17,908	19,042	19,414	21,578
Net return from prison labour	19,452	22,508	22,242	23,819	24,664	24,673
Total	34,604	39,144	40,150	42,861	44,078	46,251
Net Expenditure	521,244	496,487	486,028	498,751	504,337	523,709
Per Inhabitant	s. d. 7 2	s. d. 6 9	s. d. 6 5	s. d. 6 5	s. d. 6 4	s. d. 6 5

* Financial year ending subsequent 30th June.

The net reduction in the cost of these services since 1904 represents 9d. per head of population.

EXTRADITION.

The Imperial statutes in force in New South Wales for the surrender of fugitive criminals are the Extradition Acts of 1870 to 1895, and the Fugitive Offenders Act of 1881. The former provide for the surrender to foreign States of persons accused or convicted of certain crimes within the jurisdiction of such States, and for the trial of criminals surrendered to British dominions. Treaties for the extradition of fugitive criminals exist between the United Kingdom and nearly every foreign country. In proceedings taken in New South Wales under the Extradition Acts the fugitive is brought before a Stipendiary or Police or special Magistrate, who hears evidence on oath, and, if satisfied that the person should be extradited, makes out a warrant to that effect. At the hearing of the case, the Consul for the country of which the person charged is a subject, the Crown Solicitor, and the Inspector-General of Police are represented. If a warrant be granted, the prisoner is detained for fifteen days prior to extradition, during which interval he may apply to the Supreme Court for a writ of *habeas corpus*. During the ten years ended 1909 there were altogether 6 extraditions, all to the French penal settlement of New Caledonia.

Under the Fugitive Offenders Act, 1881, provision is made for the surrender from the United Kingdom to a British possession or *vice versa*, or from one British possession to another, of fugitives charged with the perpetration of crimes which are, in the part of His Majesty's dominions where they are committed, punishable by imprisonment with hard labour for twelve months, or by some greater penalty. Persons apprehended under the Act are brought before a Magistrates' Court, and their cases are included in the figures relating to the business transacted at such courts, and not in the returns relating to the Extradition Court.

During 1909 14 fugitive offenders—of whom 13 were males and 1 a female—were arrested in other parts of His Majesty's dominions, or in foreign countries, and returned to New South Wales. Of these 3 were

summarily convicted before magistrates, and 6 were committed to higher courts, the remaining 5 cases being discharged. The value of such a system of dealing with fugitive offenders is considerable. The figures given above show that the number of offenders returned to New South Wales from other parts of the British Empire was exceeded by the number who had sought refuge in New South Wales, and who were returned to their own country for punishment. By rigorously seeking out such fugitives who are probably not first offenders, New South Wales is enabled to reduce criminal influences within her own territory and to exercise a moral influence on other States, since the greatest influx of criminals came from the nearest States, Queensland and Victoria. To deal with this matter the "Influx of Criminals Prevention Act" was passed in 1903, by which persons convicted in other States are guilty of an offence against the Act if they come into New South Wales before the lapse of three years from the termination of their imprisonment. Penalties are imposed upon all persons accessory to the importation of criminals, and the offenders themselves are liable to deportation or other punishment. Thirty-three fugitive offenders from other portions of His Majesty's dominions were arrested in New South Wales, and brought before Magistrates' Courts during the year. Of these, 7 were remanded to Victoria, 10 to Queensland, 5 to New Zealand, 2 to South Australia, 1 to Western Australia, 1 to England, and 1 to New Caledonia, while 6 were discharged.

DECREASE IN CRIME.

Two ways are available for testing the comparative intensity of crime. A comparison of the number of arrests with the whole population of the country, supplies a general test as to lawlessness, and a comparison of the persons committed for trial by jury with the whole population evidences the prevalence of serious crime, as all serious offenders are so tried. In making comparisons it is necessary to remember that as new laws are continually being enacted, to a large proportion of which attaches the penalty of fine or imprisonment, the number of offences for which a person is liable to be apprehended has been constantly extending; and there is a general tendency for magistrates to deal summarily with a large proportion of the cases submitted to them. Hence it is quite possible that the returns may show both an increase of apprehensions and a decrease of committals. On the other hand legislative enactments have been made which tend to decrease the prison population, as noted in dealing with gaols. Prominent in this connection are the Influx of Criminals Prevention Act, and the "first offenders" portion of the Crimes Act, in addition to the Habitual Criminals and the Inebriates Acts. The tables given hereunder indicate the extent to which crime has decreased. The first table shows, in quinquennial periods, the mean population, the average number of apprehensions, and the proportion of these to the general population:—

Period.	Mean Population.	Apprehensions.	
		Annual Average.	Per 1,000 of Population.
1870-74	526,733	19,422	36·87
1875-79	633,255	28,837	45·54
1880-84	802,712	41,262	51·40
1885-89	1,000,744	39,406	39·38
1890-94	1,174,963	37,854	32·22
1895-99	1,291,563	36,145	27·99
1900-04	1,396,751	38,779	27·76
1905-09	1,552,182	40,357	26·00

An average of 26 apprehensions per 1,000 of population is a marked improvement on the rates of previous years. The comparison made above has reference to the whole population; but as few persons under 15 years of age commit serious offences, children under that age have been excluded from the following statement, which relates to the periods 1879-82, 1889-92, and 1899-1902, these periods being selected because the number in each age-group is accurately determinable from the results of the last three Census enumerations. The following figures relate to males :—

Age Group.	Average Annual Arrests.			Per 1,000 of Population.		
	1879-82.	1889-92.	1899-1902.	1879-82.	1889-92.	1899-1902.
15—19 years	1,734	1,882	1,727	45·43	34·68	24·49
20—29 „	8,884	9,939	6,500	118·29	84·33	54·65
30—39 „	8,141	8,848	6,462	143·58	95·65	61·49
40—49 „	5,945	5,803	5,097	136·14	99·20	64·99
50 years and over... ..	5,061	5,045	4,304	113·47	73·15	46·30

In every age-group there has been a decided fall in the proportion of arrests, but the improvement is most marked in the higher age-groups, because the generations which produce the old persons are progressively improving. The decline in the proportion of females arrested is even more noticeable than among the males. The following figures, relating to females, are on the same basis as those in the preceding table :—

Age Group.	Average Annual Arrests.			Per 1,000 of Population.		
	1879-82.	1889-92.	1899-1902.	1879-82.	1889-92.	1899-1902.
15—19 years	484	463	247	12·88	8·50	3·49
20—29 „	1,813	1,814	1,081	30·23	18·07	8·93
30—39 „	2,018	1,600	749	50·02	25·00	8·47
40—49 „	1,471	1,035	604	54·10	25·31	10·49
50 years and over... ..	1,118	740	449	41·22	16·37	6·62

In considering the figures in this and the preceding table, the fact must be noted that the arrests relate to distinct persons for the period 1899-1902 only, whereas in the earlier years they relate to all arrests; but even when due allowance has been made, it will be found that the decline is notable.

Turning to the committals to the higher courts, and to the consequent convictions, a more decided decline is noticeable; and as the committals represent the more serious types of offences, the decline must be regarded as specially satisfactory :—

Period.	Committals.		Convictions.	
	Annual Average.	Per 1,000 of Population.	Annual Average.	Per 1,000 of Population.
1870-74	1,134	2·15	644	1·22
1875-79	1,506	2·38	881	1·39
1880-84	1,693	2·11	1,044	1·30
1885-89	1,539	1·54	885	0·88
1890-94	1,479	1·26	916	0·78
1895-99	1,393	1·08	829	0·64
1900-04	1,356	0·97	809	0·58
1905-09	1,237	0·79	675	0·43

The fall in the rates has been continuous practically over the whole period, convictions for serious offences being proportionately much less than they were thirty-nine years ago. There has been a great decrease in crime during the period named, and the reform has been due, probably, to the spread of education and to the consequent advance in the ethical standards of the community.

The figures for the higher courts have been given in detail for the last six years on a previous page in dealing with those courts, and the record is worth dissection. Following are the figures and ratio of the years 1907-9 to the facts for 1904-6, the first three years, which are taken as equivalent to 100 in each group :—

Offences.	Convictions in Higher Courts.		
	1904-6.	1907-9.	Ratio of 1907-9 to 1904-6.
Against person	465	443	95·2
„ property	1,626	1,060	65·1
Forgery and against currency	194	166	85·5
Against order	27	23	85·1
Other	95	70	73·6
Total	2,407	1,762	73·2

Thus the convictions for the last three years represent less than three-quarters of the totals for the previous three years, and the decrease in each group on the whole is gratifying.

The Prisoners' Aid Association does good work in the direction of finding employment for prisoners on the completion of their sentences, in taking charge of gratuities earned by them in gaol, and in various other ways. During the eight years in which the Association has been in existence, of the prisoners who have been assisted, less than 11 per cent. have been reconvicted. During 1909 the Association found work for 181 discharged prisoners who, on the whole, gave complete satisfaction to their employers. The reconvictions of those assisted during the year (either with food, money, clothing, or lodging) numbered only eight. The formal applications for assistance in various directions numbered 472, of which only twenty were refused. The Association also assists persons charged for the first time before the courts, by interviewing them prior to trial, explaining the privileges granted under the Justices Act, and helping them to obtain sureties; the total number interviewed for the year was 3,584. In 566 cases the Association's agents collected the moneys for fines which had been imposed, and in 222 instances procured bail. The Salvation Army organisation also possesses several excellent institutions where friendless persons of this class are received and encouraged.

SOCIAL CONDITION.

THE efforts of the Government in New South Wales in the cause of charity are directed mainly towards the removal of the young from debasing companionship and temptation to crime, to the support of the aged and infirm, and the care of the imbecile or insane. Assistance is granted to private institutions for the cure of the sick and injured, and to societies established for the purpose of relieving the pressing necessities of those of the poorer classes who, through improvidence or unemployment, are temporarily in want of assistance.

In addition to State-aided institutions, numerous private charities assist in offering relief to the afflicted.

The rescue of the young from crime is effected by means of industrial schools, where children who have been abandoned by their natural guardians, or who, from poverty or incapacity of their parents, probably will be neglected, are trained, educated, and afterwards apprenticed to useful callings. Reformatories are provided, where children who have already committed misdemeanours are placed under discipline.

PUBLIC HOSPITALS.

Hospitals are essential, especially in the country districts of the State, and are accordingly established in every important country town, as well as in the metropolitan area. At the close of the year 1909 there were 141 hospitals in operation in the State, of which 120 were in the country and 21 in the metropolitan area.

The number of beds in these institutions was 4,802. During the year 50,541 persons were under treatment as indoor patients, and the number remaining in hospital at the close of the year was 3,139 (1,772 males and 1,367 females). The average time during which each person was under treatment was: of those who died—males, 17.0 days, and females, 14.9 days; and of those who recovered—males 22.6 days, and females, 22.2 days.

The following statement shows the number of patients treated, and the discharges and deaths during the past ten years:—

Year.	Total Patients under treatment.	Number Discharged.	Deaths.		Number of Patients at the close of year.
			Number.	Per cent. of treated.	
1900	30,592	26,201	2,336	7.6	2,055
1901	33,012	28,288	2,477	7.5	2,247
1902	34,426	29,595	2,594	7.5	2,237
1903	37,011	31,860	2,660	7.2	2,491
1904	38,430	33,532	2,431	6.3	2,467
1905	38,646	33,581	2,529	6.5	2,536
1906	41,552	36,402	2,576	6.2	2,574
1907	44,667	39,133	2,767	6.2	2,767
1908	47,349	41,391	3,020	6.4	2,938
1909	50,541	44,208	3,194	6.3	3,139

The increase in the number of patients has been steady, and faster than the growth of population, the proportion of the population under treatment in hospitals having risen gradually from 1.5 per thousand in 1900 to 1.9 in 1909.

The death-rate per 100 persons under treatment during 1909 was 6.3, this quotation being practically level with those of the last five years. The death-rate in hospitals of New South Wales is apparently very high, but this to a large extent is due to the number of deaths from accidents, which form a very considerable proportion of the total number of deaths registered—a circumstance due to the hazardous nature of the many occupations, and to the dangers incidental to pioneering enterprise. A majority of the accidents, when not immediately fatal, are treated in the hospitals; and these institutions, especially in country districts, are maintained principally for the treatment of surgical cases.

Applications for Government orders for treatment at the metropolitan hospitals are made to the Government Medical Officer, who assigns the cases to the different hospitals and asylums in accordance with the nature, severity, and special character of the ailments of the patients, and with the accommodation available at the various institutions. The number of orders granted during 1909 was 9,644, as compared with 9,704 in the preceding year, these figures representing cases, not individuals, as the same person may be in an institution several times during the year.

There are also several Hospitals for Insane which are under Government control, and which are fitted with all the conveniences and appliances of modern science most calculated to mitigate or to remove the affliction.

EXPENDITURE ON HOSPITALS.

The amount expended by the State in the fiscal year 1909-10 for the maintenance of the sick poor was £22,577, the principal institutions being the Sydney, the Prince Alfred, and the Moorcliff Hospitals, each at £35 per bed, and the Carrington Convalescent Hospital, at £17 10s. per bed.

According to the hospital accounts, the expenditure of the Government in connection with the hospitals in the metropolitan area in 1909 was £73,212; and on the country hospitals the expenditure reached £73,562, the total expenditure for the State being £146,774. These amounts are irrespective of payments for attendance on aborigines, and of expenses in connection with special outbreaks of disease in country districts which are met from the general medical vote, and do not include cost of maintenance of a large number of chronic and incurable cases in destitute asylums.

There is little exact information respecting the outdoor relief afforded by hospitals, this form of charity not being so important as indoor relief; but the number of out-door patients during 1909 was returned as 105,695.

In addition to these hospital cases 5,446 patients were treated at the Dental Hospital, which was founded in 1902 for the benefit of the poor.

Omitting the Government establishment at Little Bay, the expenditure in 1909 on all the hospitals of the State, for purposes other than building and repairs, was £229,903, representing an average of £51 4s. 6d. per bed. This estimate per bed is somewhat excessive, as a deduction should be made for out-patients, concerning whom there is no information. The average cost for each indoor patient treated was £4 11s.

The total revenue of hospitals, excluding that at Little Bay, was £277,692. The following statement shows the revenue and expenditure for the year 1909:—

Revenue and Expenditure.	Metropolitan.	Country.	New South Wales.
Receipts—	£	£	£
Government aid	49,831	73,562	123,393
Private contributions	56,343	81,598	137,941
Other sources	10,855	5,503	16,358
Total Receipts	117,029	160,663	277,692
Expenditure—			
Building and repairs	12,073	27,863	39,936
Maintenance (including salaries)	89,845	117,696	207,541
Miscellaneous	11,082	11,280	22,362
Total Expenditure	£ 113,000	156,839	269,839

The expenditure in connection with the Little Bay Hospital has not been included in the figures stated above, as that institution is controlled entirely by the Government. At this hospital 3,241 patients were treated during the year at the cost of £23,381. This sum being added to the expenditure £269,839, shown above, gives a total expenditure on hospitals of the State of £293,220. The number of lepers under detention at the lazaret on the 31st December, 1909, was 19.

Besides hospitals proper, there exist other institutions for the alleviation of various forms of distress. Of such are the homes for the reception of fallen women; for the treatment of the blind, deaf, and dumb; for the relief of consumptives; for ministering to the wants of destitute women; for granting casual aid to indigent persons; for the help of discharged prisoners; and for many other purposes which elicit the charitable aid of the people.

The Infants' Home at Ashfield, the Alexandra Hospital for Children at Camperdown, the Institution for the Deaf and Dumb and the Blind at Darlington, besides other institutions in different parts of the State, receive help from the Government; but they are maintained principally by private contributions. The management of these institutions for the relief of the sick is usually in the hands of committees elected by persons who have subscribed towards their support.

At the City Night Refuge no less than 96,753 meals were given during 1909, and shelter was provided in 36,184 cases.

DESTITUTE CHILDREN.

The charge of the destitute or neglected children of the State is entrusted to the State Children's Relief Board, constituted under an Act of Parliament, which came into force in the year 1881. Under the provisions of the Act, the children are boarded-out with approved guardians or with their own mothers when the latter are deserted wives or deserving widows with children under 12 years of age.

During the twenty-nine years of its operation the Board has had under its care 17,495 children, who have been removed for boarding-out from State and other institutions, asylums, and hospitals. Of that number 13,105

children had been discharged to their parents or otherwise removed from the control of the Board, so that there were remaining under its charge on the 5th April, 1910, 4,390, of whom 2,539 were boys and 1,851 were girls. In addition to these children under direct control the Board pays allowances towards the support of 4,097 children under 12 years of age, living with their mothers, who are widows and deserted wives; thus the Board has the supervision of 8,487 children. Of these children, 2,588 (1,542 boys and 1,046 girls) were boarded out to persons deemed to be eligible after strict inquiry by the Board. The rate of payment is usually 5s. per week, but in special circumstances may range up to 10s. per week, the highest rates being paid for infants under 1 year, who require more than ordinary care. Strict supervision is exercised by the officers of the Board to prevent ill-treatment or neglect, and in addition visiting ladies voluntarily assist in the various districts, keeping a constant watch upon these unfortunate children, and scrutinising the conditions under which they live.

The system of placing delicate young children out to nurse with healthy women in the country districts has been found satisfactory. In April, 1910, there were 180 such children under control, at a total annual cost of approximately £3,500; and there were 196 children under the control of guardians by adoption, at no charge to the State. The apprentices numbered 1,256; nearly all the girls were in domestic service, and a large proportion of the boys were with farmers, orchardists, storekeepers, and artisans in healthy country districts. On the whole the apprentice system is giving satisfaction; very few serious complaints are received either from the children or from their guardians. The system pursued by the Board of extending to dependent children the privileges of family life and home training in place of the unnatural barrack life of large asylums has been attended with eminently successful results. The actual cost to the State for maintenance, calculated on the daily average, after deducting parents' contributions, was equal to £15 3s. 9d. per child.

The first Cottage Home for destitute children requiring special treatment was opened at Mittagong in 1882; there are now nine at Mittagong and three at Parramatta. Four of the Mittagong cottages form the Industrial Farm Home for truants and juvenile offenders committed from the Children's Court; with these exceptions the cottages are maintained for children who are unfit to be boarded out on account of ill-health or of physical or mental defects.

The homes form a valuable adjunct to the boarding-out system, 4,418 children having been treated since their establishment. The admissions and discharges during the last eight years were as follow:—

Year ended 5th April.	Admissions.	Discharges.
1903	184	147
1904	180	178
1905	222	225
1906	157	169
1907	306	271
1908	392	325
1909	465	406
1910	444	525

On the 1st April, 1910, 259 children remained in the various Homes, 102 boys and 157 girls, inclusive of 126 boys at the Industrial Farm Home.

In April, 1910, there were 1,553 widows and deserted wives receiving allowances towards the support, in their own homes, of 4,097 children under 12 years of age.

The number of neglected children under the direct control of the Board is shown in the following table, for five-year intervals since 1881. During 1909 the deaths numbered 75, of which 46 were males and 29 females.

Year ending April.	Boys.	Girls.	Total.	Year ending April.	Boys.	Girls.	Total.
1881	24	35	59	1906	2,114	1,776	3,890
1886	779	587	1,366	1907	2,230	1,794	4,024
1891	1,417	952	2,369	1908	2,373	1,829	4,202
1896	1,954	1,502	3,456	1909	2,453	1,794	4,247
1901	2,205	1,705	3,910	1910	2,539	1,851	4,390

Of the 4,390 children under control in April, 1910, there were 2,938 entirely supported either as boarders with foster parents or as inmates of the Cottage Homes, Depôt, or Hospitals; 1,256 were apprenticed, and 196 adopted without payment.

The following table shows, for a period of five years, the ages of children when received by the Board:—

Age.	Year ending April—				
	1906.	1907.	1908.	1909.	1910.
Under 1 year ...	65	60	89	101	140
1 year ...	40	46	40	61	48
2 years ...	33	31	39	49	46
3 „ ...	29	26	27	35	45
4 „ ...	35	23	33	31	46
5 „ ...	42	29	49	43	40
6 „ ...	35	38	40	27	44
7 „ ...	50	42	48	40	46
8 „ ...	45	34	41	52	60
9 „ ...	42	46	45	65	65
10 „ ...	55	38	80	69	79
11 „ ...	37	55	70	72	84
12 „ and over ...	84	122	158	207	184
Unknown ...	62	106	141	130	84
Total ...	654	696	900	982	1,011

The increase shown upon comparison of the last three years with that of 1907, is due to the larger number of children placed under the control of the Board by the Childrens' Courts.

During 1910, of the 1,011 children shown above, 574 were boarded out direct from the State Children's Depôt, 56 were received from the Benevolent Asylum, 356 were committed from the Children's Courts, and 25 from other sources.

The gross amount expended by the Government during the year on the State Children's Relief Department, including the Parramatta and Mittagong Cottage Homes, was £92,264, and parents' contributions towards the maintenance of their children amounted to £3,419; the net Government expenditure was thus £88,845.

The following statement shows the number of destitute children at the end of the year 1909 :—

Supported by the Government—	
State children boarded with foster parents and inmates of Cottage Homes, Depôt, and Hospitals	2,938
Partly supported by the Government—	
Children living with their mothers, receiving allowances from State Children's Relief Department	4,097
Not supported by the Government—	
State Children—Apprentices	1,256
Adopted by foster parents without payment	196
Inmates of Private Institutions...	1,747
Total	10,234

From this statement it appears that 8,487 children are under the supervision of the State Children's Relief Department and 1,747 are in private institutions. A comparison of the number of destitute children at the end of each of the last ten years under the categories shown above is as follows :—

Year.	Supported by Government—State children boarded out or in homes, depôt, or hospitals.	Partly supported by Government—Children living with their mothers.	Not supported by Government.			Total.
			State Apprentices.	State children adopted without payment.	Inmates of private institutions.	
1900	2,512	3,065	1,255	143	1,381	8,356
1901	2,237	3,265	1,334	149	1,446	8,431
1902	2,345	3,386	1,283	177	1,523	8,714
1903	2,401	3,435	1,194	184	1,541	8,755
1904	2,419	3,317	1,156	225	1,600	8,717
1905	2,390	3,146	1,246	254	1,591	8,627
1906	2,536	3,025	1,201	287	1,388	8,437
1907	2,707	3,633	1,285	210	1,485	9,320
1908	2,779	3,980	1,270	198	1,565	9,792
1909	2,938	4,097	1,256	196	1,747	10,234

In 1909 the number of children was 10,234, or 6.22 per 1,000 of total population. This number includes 4,390 under the direct control of the Board, 4,097 otherwise under the supervision of the Board, and 1,747 in private institutions. The proportion of destitute children decreased from 6.12 per 1,000 in 1900 to 5.51 per 1,000 in 1906, but the last three years show a considerable increase as the result of the operations of the Children's Courts.

The following statement shows the proportions of destitute children per 1,000 of the population, distinguishing those supported by the Government, wholly or in part, and those otherwise maintained :—

Year.	Supported by Government—State children boarded out or in homes, depôt, or hospitals.	Partly supported by Government—Children living with their mothers.	Not supported by the Government.	Total.
1900	1.84	2.24	2.04	6.12
1901	1.62	2.37	2.12	6.11
1902	1.67	2.40	2.12	6.19
1903	1.68	2.40	2.04	6.12
1904	1.65	2.27	2.01	5.96
1905	1.60	2.10	2.07	5.77
1906	1.65	1.98	1.88	5.51
1907	1.72	2.31	1.89	5.92
1908	1.73	2.48	1.89	6.10
1909	1.79	2.49	1.94	6.22

These figures show that the increase in the proportion of destitute children to the total population is chiefly in the number of children living with their mothers, who are widows and deserted wives who seek aid from the State for the support of their children.

DESTITUTE ADULTS.

The number of destitute adults, being persons upwards of 15 years of age, who were inmates of the various asylums of the State at the close of the year 1909, was 4,672, of whom 3,259 were males and 1,413 females. The majority of asylum inmates are persons of very advanced years who are unable to work. The inmates of the Benevolent Asylum, Sydney, however, and of a number of similar institutions, consist very largely of destitute women who use the institutions as lying-in hospitals.

The following table shows the number of adults remaining in the various Benevolent Asylums at the end of each of the last ten years:—

Year.	Males.	Females.	Total.	Year.	Males.	Females.	Total.
1900	3,579	1,489	5,068	1905	3,869	1,342	5,211
1901	3,591	1,368	4,959	1906	3,722	1,294	5,016
1902	3,188	1,342	4,530	1907	3,522	1,308	4,830
1903	3,728	1,324	5,052	1908	3,506	1,428	4,934
1904	3,935	1,358	5,293	1909	3,259	1,413	4,672

About 80 per cent. of the above persons are inmates of asylums maintained by the Government. The Liverpool Asylum, the Rookwood Asylum, and two large institutions at Parramatta, are homes for males; the Benevolent Asylum, Sydney, is for women and children; and the institution at Newington is used chiefly for females. Old and indigent married couples have the use of the cottage homes, Parramatta, which were opened in March, 1889.

During 1909 the deaths of 1,067 adults took place in the various institutions.

There has been a steady decrease in the number of destitute adults during the last five years, which may be ascribed to the continued prosperity and to the general improvement in the social condition of the people.

In addition to the indoor relief, considerable aid is extended to the outside poor. Apart from medical advice and medicines, outdoor relief consists largely of supplies of provisions.

Combining the adults and children, in order to show the number of all the destitute in the State, we obtain the following results:—

Year.	Children.	Adults.	Total.	Proportion per 1,000 of Population.
1900	8,356	5,068	13,424	9.83
1901	8,431	4,959	13,390	9.71
1902	8,714	4,530	13,244	9.41
1903	8,755	5,052	13,807	9.64
1904	8,717	5,293	14,010	9.59
1905	8,627	5,211	13,838	9.25
1906	8,437	5,016	13,453	8.79
1907	9,320	4,830	14,150	8.99
1908	9,792	4,934	14,726	9.18
1909	10,234	4,672	14,906	9.06

The proportion of paupers has slightly decreased during the last ten years, but apparently the index of destitution is about 9 per thousand. *

The receipts and disbursements of the charitable institutions in the State during each year since 1903 were as shown below. The figures do not include the money received and expended by a few of the denominational institutions:—

Year.	Receipts.				Disbursements.			
	State Aid.	Private Contributions.	Other Sources.	Total.	Buildings and Repairs.	Maintenance (including salaries).	Other Expenses.	Total.
1903	159,071	22,001	36,558	217,630	13,889	191,463	24,629	229,981
1904	149,053	26,866	45,827	221,746	9,187	205,023	7,945	222,155
1905	139,299	26,728	43,050	209,077	9,195	177,607	22,119	208,921
1906	139,370	29,614	43,176	212,160	6,863	185,580	13,965	211,408
1907	138,813	30,189	35,361	204,363	5,937	182,840	13,530	202,307
1908	160,504	36,839	39,197	236,540	10,761	216,873	10,329	237,963
1909	173,385	39,766	40,199	253,350	17,581	225,581	15,980	259,142

PROTECTION OF THE ABORIGINES.

A Board has been constituted for the protection of aborigines, the object of which is to ameliorate the condition of the blacks, and to exercise a general guardianship over them. The Board consists of the Inspector General of Police and not more than ten other members appointed by the Governor. The duties of the Board are to disburse moneys voted by Parliament and other funds for the relief of the aborigines; to distribute relief when required; to provide for the custody, maintenance, and education of the children; to manage the reserves set apart for aboriginals; and to exercise a general supervision of all matters affecting their interest and welfare. At the various stations and camps dwellings have been erected, and a means of livelihood provided, the natives being encouraged to devote their energies to agricultural and other kindred occupations. The control of all reserves is vested in the Board, who may remove any aboriginal guilty of misconduct, or who should be earning a living away from such reserves. Every attention is paid to the health of the aborigines, and medical advice and comforts are supplied to the sick and aged. Where practicable, the children are instructed in manual labour, such as carpentry, net-making, domestic work, &c. Under the provisions of the Aborigines Protection Act, the young people may be apprenticed for training with suitable families.

On the 31st December, 1909, the aborigines under the protection of the Board numbered 7,370, the average monthly number in receipt of aid was 2,610. The revenue for the year 1909 was £17,261, of which £16,050 was received from the Government, and £1,211 from other sources.

THE PROTECTION OF INFANT LIFE.

In addition to the care of destitute children, the officers of the State Children's Relief Department conduct the administration of the Children's Protection and the Infant Protection Acts.

The Children's Protection Act provides for the careful supervision of children under 3 years of age boarded-out privately apart from their mothers. This Act is administered by a Chief Officer, who is also the Boarding-out Officer under the State Children's Relief Board. Any person who receives

for payment a child under 3 years, must notify the Chief Officer. Where two or more children under 3 years are received, the foster-home must also be registered. As the provisions of the Infant Protection Act also apply to these places it causes confusion, and a duplication of work which point to the necessity for the consolidation of all laws relating to children. There are also provisions for the oversight of children engaged in public performances, and for the registration of all births (including still-births) which occur in maternity homes.

The transactions under this Act during the last five years may be seen in the following statement:—

Particulars.	1905.	1906.	1907.	1908.	1909.
Registrations from Lying-in Homes ...	2,614	2,839	2,882	2,774	2,683
Foster Homes registered	85	75	112	96	91
Children registered	1,531	1,436	1,584	1,557	1,235
" died	108	102	101	85	76
" discharged from supervision ...	719	681	616	851	636
" under supervision at 31st Dec....	704	653	867	621	523
Theatre Licenses for Children	133	183	179	201	257

The " Infant Protection Act " is designed for the protection, maintenance, education, and care of infants, and to provide for the inspection and control of places established for their reception and care.

In addition to the affiliation clauses, the Act provides that the person in charge of any place established or used for the reception and care of two or more infants under 7 years of age, apart from their mothers, whether for payment or not, must obtain a license for such place.

Licensed places have been divided into two classes—one for the reception of five or less children, which includes ordinary homes, and the other for six children and over, consisting mainly of institutions of a charitable nature for the care of infants.

The number of licensed places during the last four years is shown below:—

Year.	Private Dwellings Registered.	Institutions.	
		No.	Inmates under 7 years.
1906	77	13	189
1907	97	13	189
1908	124	14	170
1909	145	15	251

In the former class, 145 homes were licensed during the year ended 31st December, 1909; and in the latter, fifteen applications were granted to institutions, which have accommodation for six to 100 children. At the end of the year, 251 children, of ages ranging up to 7 years, were under care in these institutions. With the exception of the Infants' Home, Ashfield, which is subsidised by the Government, they are supported entirely by voluntary contributions.

The Sydney Benevolent Asylum and the Randwick Asylum, operating under special Acts, have obtained exemption from the provisions of the Infant Protection Act.

OLD-AGE PENSIONS.

The old-age pension scheme sanctioned by the Parliament of New South Wales came into force on the 1st August, 1901, at which date 13,957 pensions were granted, involving a payment of £28,037 for the month. The pension list gradually increased as persons entitled to claim proved their qualifications, and on the 1st July, 1902, the number of pensioners was 22,252, the pension rate being £44,362 for the month. This is the highest monthly list under the State system.

Under the Commonwealth Invalid and Old-age Pensions Act, 1908-1909, the Commonwealth undertook the payment of old-age pensions as from the 1st July, 1909, and by the terms of the Act the conditions under which pensions are granted have been slightly relaxed. The age limit remains at 65 years, or in the case of permanent incapacity, 60 years; length of residence is reduced from twenty-five years in New South Wales to twenty years in Australia, and absences amounting in all to one-tenth of the total period of residences are permitted. Naturalised subjects may claim pensions after three years' naturalisation.

The Act is administered in this State by a Deputy Commissioner with the assistance of Police Magistrates.

The following statement shows the number of pensioners on the 1st August of each year since the system was established, and the monthly pension rate:—

Year.	No. of Pensioners.	Pension Rate. £
1901	13,957	28,037
1902	22,182	44,318
1903	20,905	41,795
1904	20,438	40,617
1905	20,483	40,493
1906	20,817	40,924
1907	20,963	41,684
1908	21,345	42,679
1909	21,979	42,713
*1910	25,215	52,210

* 30th June.

The maximum pension payable is £26 per annum, with proportionate reduction in respect of any income or property of the claimant, so that the pensioner's income with the pension shall not exceed £52 per annum.

The total amounts which have been appropriated for the payment of old-age pensions in New South Wales during each financial year up to 30th June, 1910, are as follow:—

Year.	Amount paid. £	Per head of Population. s. d.
1901- 2	436,183	6 4
1902- 3	524,967	7 6
1903- 4	508,133	7 2
1904- 5	496,300	6 10
1905 6	489,095	6 7
1906- 7	494,227	6 6
1907- 8	503,030	6 6
1908- 9	526,535	6 7
1909-10	594,440	7 1

The number of pensioners taken over by the Commonwealth was 21,292; during the succeeding year there were 1,680 deaths, and 126 cancellations, and 5,729 new claims were admitted. There were, consequently, 25,215 pensions in force as at 30th June, 1910.

The following statement shows for each State of the Commonwealth the number of pensioners on the 30th June, 1910, the expenditure on old-age pensions, exclusive of administration, during the last year, and the average fortnightly rate:—

State.	Pensions current on 30th June, 1910.	Expenditure on Old-age Pensions, 1909-10.	Average Fortnightly Rate, as at 30th June, 1910.
	£	£	s. d.
New South Wales	25,215	594,440	19 1
Victoria	20,218	470,656	19 5
Queensland	8,561	196,476	19 1
South Australia	5,892	118,368	17 10
Western Australia	2,361	46,302	18 10
Tasmania	3,245	71,088	18 10
Total	65,492	1,497,530	19 1

Prior to the introduction of the Commonwealth system, old-age pensions had been payable only in three States—New South Wales, Victoria, and Queensland.

The total number of new pensioners admitted during 1909-10—the first year under the Commonwealth Act—was 30,526; their ages, shown hereunder, ranged up to 104 years in the case of the males, and of the females to 102 years:—

Ages.	Males.	Females.	Total.
Years.			
60-64	893	1,837	2,730
65-69	5,919	6,272	12,191
70-74	3,958	3,870	7,828
75-79	2,460	2,421	4,881
80-84	1,011	1,045	2,056
85-89	330	311	641
90-94	81	87	168
95-99	18	9	27
100-104	2	2	4
Total ...	14,672	15,854	30,526

INVALIDITY AND ACCIDENT PENSIONS.

In 1907 an Act was passed by which pensions, up to £26 a year, are granted to persons over 16 years of age, who are permanently incapacitated for any work by reason of accident or invalidity. The amount of pension is diminished in proportion to the income of the applicant, and to the contributions of relatives. Applicants must have resided for five years, and have become incapacitated, in the State. These pensions are not payable to inmates of charitable institutions, nor to old-age pensioners. The Act was administered in conjunction with the Old-age Pensions Act of the State until the passing of the Commonwealth Invalid and Old-age Pensions Act, 1908-1909, when the payment of old-age pensions became a function of the Commonwealth, and provision was made for invalid pensions also to be paid by the Commonwealth at a date to be fixed by proclamation.

The operations under the Invalidity and Accident Pensions Act, since it came into force, are as follow:—

Period ended 30th June.					Certificates Issued.	Pensions Current.	Amount Paid.
					No.	No.	£
1908	...	...	...	...	1,906	1,765	12,527
1909	...	...	...	...	4,065	3,732	73,387
1910	...	...	...	...	5,165	4,252	101,192

The payment of invalidity pensions was undertaken by the Commonwealth as from the 15th December, 1910.

FRIENDLY SOCIETIES.

The first Act of Parliament to regulate Friendly Societies was passed in 1843, by which certain legal advantages were granted to societies established for the purpose of raising funds for mutual relief of the members. This measure contained many serious defects—provision was not made to enforce correlation of contributions to benefits, nor for obtaining periodic financial statements from the societies, and no officer was specifically appointed to supervise the administration of the Act.

It was not until 1873 that a Registrar of Friendly Societies was appointed to certify as to the accordance of the rules of the societies with the law. To obtain the registration of a society under the Act of 1873, the table of contributions, certified by an actuary, was essential; but this clause was rendered useless by the fact that the society had the power, after registration, to alter the rates of subscription and the amount of benefits.

A commission, appointed in 1881, held an investigation into the working of the Act, and a series of valuations of the positions of the societies disclosed a condition of insolvency in all cases, but no attempt was made to carry out recommendations made by the Commissioners until 1899. Under the Act passed in that year the Friendly Societies were offered the supervision of the State in the conduct of their business, and in the safeguarding of their funds, collection of data as to membership, sickness and mortality experience, investigation of accounts, and, above all, expert advice on their financial concerns, and the actuarial oversight obtained by means of periodic valuations.

A period of one year was allowed from 5th December, 1899, after which the old rules would become obsolete by effluxion of time. The vital question of adequacy of contributions was raised, and the necessity for actuarial certification of scales of payments was enforced. The old members, who had practically arranged their own contributions, and had developed into an attitude, either of indifference or of bitter hostility to actuarial presentments, consented to the apportionment of adequate payments in respect of future members. But they strongly protested against any increase in their own rates of contribution, although it was obvious that, if certain periodic payments were essential on the part of new members as at entry age, even greater payments were necessary on the part of the old members, who would enjoy the same benefits, in order to counterbalance the deficiency in their case of contribution in the past.

Eventually an Act was passed in 1901 as a compromise. It enacted that all societies subsisting at the commencement of the Act of 1899 might be provisionally registered if provision was made for keeping the accounts of contributions and benefits of old members separate from those of future members;

that new members should pay at actuarially certified rates, while the rates of old members should be not less than those formerly payable, provided that such registration should remain in force until the next quinquennial investigation, when any society might be again registered, (1) if it appeared as the result of such valuation that the society had improved its financial position in respect of persons who were members at the last preceding registration; and (2) though it appeared that the society had not so improved its financial position, if the rules of the society provided that the rates of contribution to be charged in respect of such members were certifiable by an actuary.

A further important amendment, enacted in 1906, required compulsory registration of all Friendly Societies, with the exception of those bodies—commonly termed dividing societies—which annually distribute all their funds amongst their members.

The benefits promised are much the same in all societies, and usually consist of medical attendance and medicine for a member and his family, and sick pay and funeral allowance. For sickness benefit it is usual to offer 21s. per week during the first six months, half pay for the next six months' illness, and 5s. per week for rest of illness. This last liberal provision is rendered possible by the Subventions to Friendly Societies Act of 1908, of which more detailed mention is made below. The funeral benefits range from £20 to £40 at death, with a contingent benefit of £10 or £15 on death of the wife. A separate benefit for widows, usually £10, may be assured in some societies for a stated contribution.

The first quinquennial valuation of Friendly Societies required in compliance with the Act of 1899, was undertaken as at 31st December, 1904. Eighteen affiliated societies and thirteen single societies were valued.

At this valuation 96,422 members were valued for sickness benefit, and 97,511 for funeral benefits, with 51,155 subsidiary funeral benefits. With one exception, in which a 4 per cent. interest rate was adopted, the valuation was made on a 3 per cent. basis on the experience of the M.U.I.O.O.F. of England, 1866-70.

Taking into account only the large affiliated Orders, the results show that eight of them possessed surpluses amounting in the total to £28,967, and in the remaining ten instances there were deficiencies representing an aggregate amount of £289,997. There was, consequently, a net deficiency of £261,030, in respect of total liabilities of £3,904,545. Of the single societies three showed small surpluses, amounting in the aggregate to £346, and thirteen had deficiencies amounting to £10,936. Dealing with the figures for all societies, there was a net deficiency of £271,620 on a total liability of £3,981,252, equal to 1s. 4d. per £1, or, in other words, a sum of only 18s. 8d. was available to meet each £1 of liability.

In order to strengthen the financial position of the societies, and to improve their status, the Registrar in his report of the valuation recommended the societies to exercise close watchfulness of finances as to collection and allocation of contributions; as to investments and the payment of benefits; to demand adequate rates of contributions for every benefit quoted; and to consolidate the resources of every society under the control of a central committee. The recommendations also advised careful selection of new members as to soundness of health; the preparation of tables of benefits in accordance with the average earnings of members; and the payment of a special premium by members engaged in hazardous occupations. By these measures, efficient management of the finances would be secured, high sickness and mortality rates lessened, and imposition and malingering prevented.

In their observance of these recommendations, the societies have endeavoured to improve the state of their finances, and the results disclosed by the second valuation, as at the 31st December, 1909, showed that the position of the societies as a whole is distinctly sound. The second quinquennial valuation was made on a 3½ per cent. basis on the experience of the Friendly Societies in this State during the nine years 1900-8. Sickness and Funeral benefits were valued for 116,186 members, funeral benefit only for 5,258, and sickness benefit only for 13,109 members. In addition, there were subsidiary benefits on account of 54,391 persons, comprising members, their wives, and children.

The results showed that the eighteen affiliated societies had a surplus of £135,780 in the Funeral Fund, and a deficiency of £70,800 in the Sickness Fund, the net result being a surplus of £64,980 on the total liability of £4,122,197. The single societies showed a surplus of £1,411 over liabilities of £97,570. The assets of all the societies were, therefore, £66,391 in excess of the liabilities, £4,219,767, so that for every £1 of liability they held assets valued at £1 0s. 4d.

The results of the 1904 and 1909 valuations are compared in the following table, which shows the value of assets for £1 of liabilities at each date:—

Societies.	1904.	1909.
Affiliated	18·8	20·4
Single... ..	17·3	20·3
All Societies... ..	18·8	20·4

The deficiency of 1s. 4d. in the £ at the first valuation has been converted to a surplus of 4d. in the £ during the quinquennial period. The Sickness Funds shows a deficiency of 6d. in the £1, and the Funeral Funds a surplus of 2s. 1d., the combined funds disclosing a surplus of 4d., as shown above.

The following table shows the progress in the number of societies, branches, and members, during the five years ended 31st December, 1909:—

Year ended 31st December.	Branches.	Members.
	No.	No.
1905	1,195	101,463
1906	1,299	106,678
1907	1,333	116,985
1908	1,393	123,297
1909	1,492	133,129

The membership of 133,129 at 31st December, 1909, represents 8 per cent. of the total population of the State; but the benefits of medical attendance and medicine accrue also to the members' family, so that approximately 32 per cent. of the population derive advantage from the societies in some form.

The receipts and expenditure of the societies for the five years ended 31st December, 1909, are set in the following statement:—

Year.	Receipts.					Expenditure.					Excess of Receipts.
	Sick Fund.	Funeral Fund.	Medical and Management Fund.	Additional Funds.	Total	Sick Fund.	Funeral Fund.	Medical and Management Fund.	Additional Funds.	Total.	
	£	£	£	£	£	£	£	£	£	£	£
1905	149,495	60,015	170,890	10,066	390,466	103,910	26,844	175,633	8,105	314,492	75,974
1906	144,702	60,726	180,240	10,359	396,027	93,093	26,005	172,833	7,269	299,200	96,827
1907	163,433	86,381	175,075	9,106	434,000	111,705	25,724	168,852	15,660	321,481	112,519
1908	153,199	74,546	184,195	23,334	435,324	111,260	46,245	179,915	8,989	346,409	88,915
1909	150,022	91,870	191,957	31,675	455,524	112,453	47,483	195,420	22,807	373,168	77,356

The apparent retrogression shown by the figures for the last two years is to be explained by the reductions in the rates of contributions made by several of the societies in consequence of the favourable position disclosed in the first quinquennial valuation, and of the assistance rendered under the Subvention Act.

The total cases of sickness of adult males in 1909 were 19,976, at a total cost of £103,693, or an average amount of sick pay of £5 3s 10d. per sick member. The records for female and juvenile sickness are small relatively to those for male adults, and conclusions of practical value are not deducible from them.

The total funds of the Friendly Societies at the end of 1909 amounted to £1,335,379, and were invested as follow:—

Classification.	Sickness Fund.	Funeral Fund.	Medical and Management Fund.	Other Funds.	Total.
Invested —	£	£	£	£	£
Mortgage	451,031	361,721	11,933	23,412	848,097
Public Funds	16,416	9,075	666	25	26,182
Savings Banks	105,557	51,448	21,921	8,847	187,773
Other Banks	16,543	2,306	937	1,031	20,817
Buildings	80,157	43,265	27,005	1,309	151,736
Other Freehold Property ...	13,917	6,496	1,919	1,777	24,109
Other Investments	11,371	431	2,386	562	14,750
Uninvested—					
Cash not bearing Interest ...	32,519	12,407	16,453	7,548	68,927
Illegally in use	4,848	1,521	632	957	7,958
Overdraft	(-) 1,044	(-) 362	(-) 12,141	(-) 1,423	(-) 14,970
Total	731,315	488,308	71,711	44,045	1,335,379

STATE SUBVENTIONS TO FRIENDLY SOCIETIES.

In order to assist aged and afflicted members individually, and to enable societies to enlarge their sphere of usefulness, Parliament in 1908 passed the Subventions to Friendly Societies Act, under which sums are payable by

the State to those societies which elect to take advantage of the Act. These subventions are as follow:

1. Sick pay—

(a) One half the total cost in each year in respect of all sickness after twelve months from the commencement of such sickness for male members less than 65 and for females less than 60 years of age—provided that the maximum cost to the State shall not exceed 5s. per week for each case of prolonged sickness.

(b) The whole cost of sick pay in respect of male members aged 65 years and over, and of female members aged 60 years and over—subject to the same proviso as above.

2. The contributions payable on account of all male members 65 years and over, and of female members 60 years and over, for medicine and medical attendance, provided that such contributions shall not be more than those payable by members of the same society under the ages stated.

3. The contributions payable under the rules of a society in respect of the aged members, above mentioned, to assure payment of funeral allowance at their death.

Hitherto, in all Friendly Societies, the provision for chronic sickness (*i.e.*, sickness extending beyond one year's duration), has been a source of perplexity on account of the cost involved, and the consequent necessity of higher contributions if such provisions be adopted in the rules. The means of the majority of the members are so slender that the contributions should be as small as possible, consistent with due regard for the societies' solvency, and it has been evident in every society that provision for monetary allowances throughout chronic sickness could not be made on account of the undue cost. With the help afforded by the State under the terms of the Subventions Act, this difficulty is surmounted, and afflicted members of the societies will receive financial aid as long as their sickness lasts.

The payment of medical and funeral contributions by the State on behalf of aged members will be a great boon to many. Up to the present, fully two-thirds of these members have been forced to withdraw from the societies, through their inability to contribute their subscriptions when their powers of earning had failed through old age. This means that medical benefits have, perforce, been surrendered at the time they were most necessary (for in old age sickness is more or less chronic), and prospective funeral benefits forfeited as the time for their realisation drew near. These hardships will be obviated by the subventions payable under the Act, and, therefore, appreciable benefit may be anticipated. In reality, aged members will be required in most cases to pay actual management expenses only—about 2d. per week—as under the scales now in vogue contributions to the Sick Fund are usually calculated to cease at age 65 in the case of male members, and at age 60 in the case of females.

Up to the 31st December, 1909, thirteen affiliated and nine single societies had accepted subvention under the Act. The number of members in these societies at the end of 1909 was 110,003 and 1,389 respectively, and they represented 96 per cent. of the strength of all the societies. The amount of subvention which accrued to the societies during the year was £6,071. This amount is comparatively small, because only three societies were entitled to claims on account of the whole year, the claims of the remainder covering periods varying from two to ten months. For the year 1910 it is estimated that the claims will exceed £15,000.

SICKNESS AND INFIRMITY.

The returns of the Friendly Societies of the State furnish valuable information relating to the sickness and mortality of the members. The collection of the returns has been satisfactory only since 1900, and, as it is desirable that a standard of purely local experience should be provided as a basis of the quinquennial valuations of the societies, an investigation of their experience for the nine years 1900-8 has been made.

During this period the sickness of the male members aggregated 859,412 weeks, the annual rate per member being 1.30 weeks. The female experience was too small to be of any practical value.

For the valuation purposes it was considered sufficient to record the experience from age 18 years, and, owing to the insufficiency of data at the higher ages, the rates have not been extended beyond age 65. The following table shows the average annual weeks of sickness per member in New South Wales at every fifth year of age during the years 1900-8 in comparison with the experience of the Manchester Unity of England, 1866-70, and of the South Australian Friendly Societies, 1895-1904:—

Age.	N.S.W. Friendly Societies, 1900-1908.	Manchester Unity, England, 1866-1870.	South Australian Friendly Societies, 1895-1904.
Years.			
18	.8391	.5165	.740
23	.7614	.7758	.772
28	.7377	.8163	.814
33	.7511	.9659	.819
38	.8345	1.0850	.925
43	1.0198	1.3211	1.080
48	1.3057	1.7467	1.397
53	1.8308	2.3358	1.971
58	2.9118	3.3236	3.043
63	4.6233	5.1627	5.012

Except at the ages 18-20 years the New South Wales experience is considerably below that of England and of South Australia.

The male rates decrease down to age 29, and then increase regularly to the end of the period of life observed. The phenomenon of high rates at the early ages is rather surprising. It is not explained on the ground of paucity of data, for the same result was exhibited in the experience of individual societies of large or small membership; and the sickness rates of the Friendly Societies of other States of the Commonwealth disclose a similar feature. It must be concluded, therefore, that it is peculiar to this class of experience, and is probably due to a certain degree of malingering by young members induced by the liberal benefits allowed. Many of the societies have recognised this, and, acting on the advice tendered in the first Valuation Report, have reduced the amount of sickness benefits to members under the age of 20 years.

The sickness experience of the male members of all ages during the last five years is shown below:—

Year.	Male Members exposed to risk of Sickness.	Sick Members.		Period of Sickness.	
		Number.	Proportion to total exposed to risk.	Total.	Per member exposed to risk.
			per cent.	weeks.	weeks.
1905	81,642	17,982	22.0	102,420	1.25
1906	84,053	18,156	21.6	102,633	1.22
1907	89,986	21,721	24.1	120,440	1.35
1908	95,050	21,150	22.2	124,084	1.30
1909	99,050	19,976	20.2	131,306	1.32

A phase of the subject also discussed in connection with the Friendly Societies is the extra risk attaching to hazardous occupations. The only well-defined class of occupations carrying a heavy risk, the experience of which is readily deducible, is that of the mining section. It has not been possible to obtain an experience of all persons engaged in the work of mining, but an investigation has been made of the branches of which the members are nearly all miners, and the experience obtained may be assumed to fairly represent this particular class.

The following table shows a comparison of the rates of sickness of the mining and non-mining branches:—

	Weeks of Sickness.	
	Total.	Annual Rate per Member.
Mining	154,251	1·613
Non-mining	705,161	1·249
All Members	859,412	1·301

The effect of the added sickness of the mining population is to raise the general rate by 4·2 per cent., the mining being 29·2 per cent. above the non-mining rate. It is unfortunate, in view of the results disclosed by this section of persons engaged in hazardous occupations, that other such dangerous occupation could not be treated, but the data were too scanty for exhaustive treatment.

In conjunction with the low sickness experience of the members, there is also a low mortality rate. During the nine years 1900-8 the male adult experience comprised 791,856 exposures to risk for one year each, and there were 5,952 deaths, the rate being 7·52 per thousand. The following table shows the average duration of life as deduced from the experience of the Friendly Societies in this State in comparison with that of other experiences:—

Age.	N.S.W. Friendly Societies, 1900-8.	Manchester Unity Friendly Society, 1866-70.	South Australian Friendly Societies, 1895-1904.	Australian Mutual Provident Society, 1849-88.
18	48·68	42·95	47·89	48·79
23	44·37	39·15	43·84	44·60
28	40·02	35·47	39·71	40·36
33	35·70	31·82	35·69	36·21
38	31·48	28·19	31·65	32·18
43	27·34	24·69	27·65	28·25
48	23·30	21·27	23·75	24·46
53	19·43	17·93	19·98	20·77
58	15·92	14·77	16·48	17·14
63	12·76	11·87	13·30	13·70
68	9·87	9·34	10·36	10·75
73	7·43	7·20	7·75	8·15
78	5·49	5·53	5·38	5·57
83	3·97	4·20	3·73	3·89
88	2·81	3·20	2·72	2·84
93	1·95	2·46	1·46	1·53
98	1·39	1·91	.....	.....

Information relating to the sickness of the whole population is collected only at the census. At the 1901 census sickness was taken to express inability for the time being to follow the usual occupation in life; and only those actually unable to work were counted as sick, or as suffering from an accident, as the case might be; in the case of those having no occupation, bedfast sickness was understood.

Assuming the results of 1901 to be indicative of the general condition of the population, it would appear that rather more than 1 per cent. of the people constantly suffer from some form of disablement arising from sickness or the result of an accident. The following statement shows the number and proportion per 1,000 of each sex suffering from each cause :—

Cause of Disablement.	Number.			Proportion per 1,000 living.		
	Males.	Females.	Total.	Males.	Females.	Total.
Sickness	8,389	5,129	13,518	11·81	7·95	9·98
Accident	2,127	443	2,570	3·00	0·69	1·89
Total	10,516	5,572	16,088	14·81	8·64	11·87

The sickness rate for males is half as high again as that for females, while the accident rate is four and a half times as high, the disparity between the sexes being chiefly due to the greater risks to which males are exposed. Of the total number disabled, nearly 15 per cent., namely 1,423 males and 1,018 females, were being treated in hospitals. The following table shows the number in various age groups suffering from sickness and accident, and the proportion of sufferers from sickness and accident per 1,000 living in each group :—

Age Group.	Sickness.		Accident.		Proportion per 1,000 living.	
	Males.	Females.	Males.	Females.	Males.	Females.
Under 10	305	322	63	38	2·23	2·24
10—19	640	589	283	58	6·07	4·29
20—39	1,676	1,472	646	97	10·38	7·50
40—64	2,761	1,395	793	134	25·34	14·66
65—79	2,405	1,019	322	88	111·97	64·05
80 and over	590	322	19	27	226·98	150·97
Not stated	12	10	1	1	.....	.....
Total, All Ages ..	8,389	5,129	2,127	443	14·81	8·64

With one exception—the age group under 10—the males show higher rates than the females, the differences becoming greater as the ages increase. In each sex the rates increase from the lowest to the highest ages. From age 40 the rates increase very rapidly, until at age 80, one-fifth of the males and one-seventh of the females are incapacitated.

Although the census records would not be utilised by an actuary in deducing an authoritative sickness experience, they are important as showing the probable loss of efficiency among the whole population. Assuming, therefore, that the rate of sickness existing on the census day will prevail throughout the year, it is calculated that between the working ages, 20 and 65, the sickness experienced will be 5·89 days per annum.

Deaf and Dumb.—The number of persons who were deaf and dumb in 1901 was 390, equivalent to one person in every 3,474 of the population. The proportion of deaf-mutes has decreased since 1891; it is, however, feared that the full number has not been returned, because the male rate is less than the female—the general experience being in the contrary direction. Furthermore, from the table below, which gives the rates in various age groups, it will be seen that the rate at ages 10 to 15 is the highest; whereas, since deaf-mutism is an affliction of childhood, it is reasonable to expect that the rates below those ages would be the highest. This probably arises from the unwillingness of parents to make known this infirmity in their children.

Age Group.	Number.		Proportion per 1,000 living.	
	Males.	Females.	Males.	Females.
Under 5	2	3	·02	·04
5—9	25	14	·30	·17
10—14	38	36	·47	·45
15—19	21	33	·30	·47
20—44	92	87	·31	·36
45—64	20	24	·21	·34
65 and over	1	3	·04	·02
Not stated ... ..	.....	1	.....	.....
Total	189	201	·27	·31

Excluding children under 10, it will be seen that the rate declines more or less regularly as the age advances. At all ages from 15 to 65 the female rate is higher than the male.

Blind.—The number of persons afflicted with blindness at the census of 1901 was 884; this is equivalent to one person in every 1,533. The higher proportion which exists among males is probably due to the greater risk of accident to which they are exposed. Blindness comes on with approaching old age, as will be seen below, where the numbers and proportion in various age groups are given:—

Age Group.	Number.		Proportion per 1,000 living.	
	Males.	Females.	Males.	Females.
Under 10	15	11	·10	·07
10—19	31	24	·20	·16
20—44	99	70	·37	·29
45—54	76	27	1·29	·62
55—64	93	54	2·56	1·96
65—74	140	75	6·74	5·19
75—84	57	61	10·44	13·81
85 and over	23	26	28·75	38·35
Not stated	1	1	.....	.....
Total	535	349	·75	·54

Among both sexes the rate increases from the lowest to the highest ages, and rapidly after age 65. At all ages below 65 the male rate is higher than the female; after that age the female rate is higher. The majority of young persons afflicted with blindness were probably born so.

SICKNESS IN HOSPITALS.

Information regarding cases of sickness in the Public Hospitals of the State is valuable, though to a somewhat limited degree, as necessarily the whole course of sickness cannot be tended in a public hospital.

The statement below shows the principal diseases which were treated during 1909, and the number of patients who recovered, who died, who were relieved or unrelieved. There were, in addition, a number remaining in hospitals at the end of the year:—

Disease.	Number of those discharged during the year who—						Total.	
	Recovered.		Were Relieved.	Were unrelieved.	Died.		Males.	Females.
	Males.	Females.	Both Sexes.	Both Sexes.	Males.	Females.		
Typhoid	1,148	830	10	6	136	85	1,294	921
Diphtheria	545	766	159	1	45	47	661	902
Influenza	446	204	12	2	7	1	462	210
Tuberculosis of lungs ...	58	12	398	91	119	29	481	226
Tuberculosis, other organs	97	87	233	28	31	12	275	213
Veneral Diseases	230	96	358	27	17	6	463	271
Cancer	246	139	313	219	134	82	672	461
Rheumatism	556	257	328	10	9	6	811	355
Diseases of the eye	363	277	450	43	1	...	667	467
Heart diseases	78	37	538	24	190	63	657	273
Hæmorrhoids, &c.	455	245	81	13	1	1	514	282
Diseases of nose	641	617	41	4	1	...	656	648
Bronchitis	385	251	172	10	35	9	551	311
Pneumonia	972	511	29	8	191	91	1,182	620
Gastritis	381	423	105	8	4	6	439	488
Diarrhœa and enteritis ...	418	264	72	11	106	77	568	380
Intestinal obstruction ...	604	221	59	26	37	25	700	272
Appendicitis	752	790	94	22	61	45	871	893
Nephritis	69	47	186	14	136	54	348	158
Other diseases of urinary system ...	446	191	318	44	58	11	783	285
Diseases, female genital organs ... ..	...	2,808	337	67	...	37	...	3,249
Diseases of skin	933	408	200	17	19	11	1,085	503
Suicide	49	53	14	2	20	14	76	76
Accidents	3,591	666	545	44	206	65	4,286	831
All Causes	17,157	16,101	7,547	1,171	2,048	1,136	24,335	20,825

The figures in this table are exclusive of 122 cases at the Consumptives' Home at Wentworth Falls, for which no particulars were supplied, and of 2,120 cases treated at the Convalescent Homes at Concord and Camden. Altogether, as will be seen from the table, there were available full particulars regarding 45,160 patients, 24,335 males and 20,825 females. Of these—

17,157 males and 16,101 females recovered.
 2,048 " 1,136 " died.
 4,462 " 3,085 " departed relieved.
 668 " 503 " departed unrelieved.

The large number of cases of diseases of the nose was due probably to the fact that during the year 1907 special medical inspection of State School children was commenced, and attention has been thereby directed to such diseases as adenoids. The cases treated consequently represent the accumulation of several years.

The next statement shows, for the same diseases as in the table above, the proportion of cases which ended in recovery, and the average period of suffering in hospitals of those who recovered, who died, and of all cases together:—

Disease.	Proportion who recovered.		Average duration of sickness of those discharged during the year who—					
			Recovered.		Died.		All cases.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
	%	%	days.	days.	days.	days.	days.	days.
Typhoid	88·7	90·1	39·7	40·7	15·3	17·7	36·9	38·5
Diphtheria	82·5	84·9	25·2	23·8	3·9	4·0	22·2	20·9
Influenza	96·5	97·1	9·2	11·3	4·3	9·0	9·1	11·7
Tuberculosis of lungs	12·0	5·3	100·0	36·6	41·9	31·5	49·7	82·7
„ other organs ..	35·3	40·8	50·2	38·0	27·2	50·9	47·0	46·9
Venereal diseases	49·7	35·4	35·8	45·5	15·9	33·5	37·2	36·7
Cancer	36·6	30·1	24·7	28·7	25·3	24·0	21·6	24·0
Rheumatism	68·5	72·4	23·3	24·6	32·8	117·0	24·3	30·7
Diseases of the eye... ..	54·4	59·3	29·1	33·7	10·1	...	27·8	34·5
Heart diseases	11·9	13·6	19·9	25·9	23·3	16·8	26·0	24·6
Hæmorrhoids, &c.	88·5	86·9	23·9	27·5	6·0	25·0	23·0	26·3
Diseases of nose	97·7	95·2	3·1	3·1	1·0	...	3·2	3·6
Bronchitis	69·9	80·7	13·7	15·9	13·0	6·1	14·7	16·9
Pneumonia	82·2	82·4	20·4	20·2	6·7	7·0	18·1	18·5
Gastritis	86·8	86·7	11·3	14·8	66·7	25·3	12·4	15·4
Diarrhœa and enteritis	73·6	69·5	15·1	19·1	11·6	9·3	14·9	16·8
Intestinal obstruction	86·3	81·3	24·6	30·4	5·1	2·8	22·3	26·5
Appendicitis	86·3	88·4	26·7	26·9	18·2	7·1	25·3	25·0
Nephritis	19·8	29·7	26·3	26·9	17·8	15·3	23·6	24·8
Other diseases of urinary system	56·9	67·0	26·3	23·9	22·1	26·4	24·3	23·5
Diseases, female genital organs ... ..	...	86·4	...	23·9	...	10·9	...	22·9
Diseases of skin	85·9	81·1	23·0	20·6	22·7	22·9	23·8	21·9
Suicide	64·5	67·7	17·1	15·1	1·9	2·7	13·2	12·7
Accidents	83·8	80·1	21·8	23·9	8·6	7·3	21·3	22·5
All Causes	70·5	77·3	22·6	22·2	17·0	14·9	22·9	22·2

The smallest proportions of recoveries were among sufferers from tuberculosis of lungs and from heart diseases, who were probably in a serious state before they entered the hospital. The recoveries from cancer are unfortunately more apparent than real; the figures mean simply that the patients recovered from the particular operation to undergo which they went into the hospital, not that the disease was eradicated.

Nephritis is a serious affection, and the proportion of recoveries was small. The epidemic diseases—typhoid, diphtheria, and influenza—all showed high percentages of recovery. Pneumonia and appendicitis also showed fairly high proportions.

The average duration of all cases was 22·9 days for males and 22·2 days for females. Patients suffering from tuberculosis remained in hospital the longest average time—tuberculosis of lungs, 49·7 days males, and 82·7 females; other organs, 47 days. Typhoid and venereal diseases necessitated a stay in hospital of about 37 days, and affections of the eyes, which often are very troublesome, about a month.

An investigation of the ages of the persons who entered hospitals for treatment of their ailments shows that the majority were between the ages of 5 and 45.

The table shows the total number and proportion of cases of sickness in each age-group, and the total number who died:—

Age-Group.	No. of Cases.		Proportion of Cases. Per cent.		No. who Died.	
	Males.	Females.	Males.	Female.	Males.	Females.
Under 1	410	299	1·7	1·4	98	94
1-4... ..	1,483	1,209	6·1	5·8	127	117
5-19	5,136	4,933	21·2	23·7	194	159
20-44	9,637	11,276	39·6	54·2	574	431
45-64	5,101	2,313	20·9	11·1	577	209
65 and over	2,451	713	10·0	3·4	458	122
Not stated... ..	117	80	0·5	0·4	20	4
Total	24,335	20,823	100·0	100·0	2,048	1,136

Among the males, 21 per cent. of the cases came from each of the age-groups 5-19 and 45-64, and 40 per cent. from the intermediate group 20-44.

Of the female cases, 54 per cent. were between the ages 20 and 45, and the proportion from age-group 5-19 was 24 per cent. and from group 45-64, 11 per cent.

MEDICAL INSPECTION OF SCHOOL CHILDREN.

On account of the favourable social conditions which prevail in Australia physical deterioration and other evils arising from extreme poverty and from overcrowding of the population do not exist to any great extent. But the necessity of dealing with physical defects and communicable diseases that might arrest the physical development of the children or interfere with efficient school work has led to the inauguration of a scheme of medical inspection in State Schools.

It was considered advisable to restrict the work of the first year to two populous centres, and medical officers were appointed at Sydney and Newcastle. Under the present system the medical inspector pays an annual visit to each school under his supervision and examines all children presented to him for that purpose by the teacher, as well as others whom he selects, after a general inspection of the classes, as probably requiring attention. The inspector is not empowered to treat physical ailments, but if he determines that the condition of any child requires treatment a notification of the complaint is sent to the parents.

The inspection was initiated in the metropolitan district in May, 1907, and in Newcastle in October of the same year. The particulars of the schools visited and the children found suffering from physical defects to June, 1909, are shown hereunder:—

Period.	Schools.	Enrolment.	Defective Children.	
			Total.	Per cent. of Enrolment.
Up to April, 1908	50	36,118	4,795	13·3
April, 1908, to June, 1909	98	66,000	14,630	22·2

In addition to these cases, other pupils were found defective but were not reported, as they were already under treatment. Of the 14,630 pupils examined during 1908-9, 8,216, or 57 per cent., were found to be suffering from defects of vision; 7,171, or 49 per cent., from post-nasal growths; 3,450,

or 24 per cent., from throat trouble; 855, or 6 per cent., from swollen glands; and 615, or 4 per cent., from defective hearing or ear complaints. These figures relate to ailments, not to individual pupils, it being frequently found that a child suffered from more than one defect.

In many instances where the parents received notifications they did not take the necessary steps to have the defects remedied, chiefly on account of the cost of medical attendance. In order to effect an improvement the inspection was followed by the organisation of meetings of the parents at various centres, when the medical officer endeavoured to impress upon them the necessity for immediate attention to the ailments disclosed by the examinations. This movement has been productive of very beneficial results, but it is to be regretted that a very large proportion of the children remain untreated.

The benefit of the medical inspection in the State schools is augmented by the hygienic instruction given by the regular teaching staff to the school children.

In conjunction with the medical inspection an anthropometric survey of the children is made in order to show the physical development in relation to mental progress, and the effect of environment on physical condition, as well as to establish a basis of comparison of the children of this State with those of other countries. The investigation is based on the measurements of height, weight, and vision made by the teachers in Sydney and various country districts.

The anthropometric survey was commenced in 1907. During the period April, 1908, to June, 1909, records of the height and weight of 50,349 children were tabulated and showed the following results:—

Age last birthday.	Boys.		Girls.	
	Average Height.	Average Weight.	Average Height.	Average Weight.
Years.	in.	lb.	in.	lb.
4	41·48	39·73	40·47	38·42
5	42·43	41·63	42·02	40·32
6	44·28	44·89	44·13	43·90
7	46·52	49·91	46·13	48·25
8	48·27	53·54	48·11	53·09
9	50·44	58·67	49·97	57·46
10	52·19	63·58	51·94	62·87
11	53·86	68·86	53·96	69·61
12	55·55	79·94	56·02	77·29
13	57·43	82·63	58·31	86·95
14	60·29	94·62	60·43	96·99
15	63·00	108·78	61·19	105·40
16	65·36	122·17	63·20	110·93
17	66·76	132·02	63·02	114·63
18	67·56	136·09	63·02	120·60
19	70·00	151·50	62·97	120·81

A comparison of city with country children shows that, generally, the country children are the taller, but the city children, at most ages, are the heavier. As regards visual conditions of the public school children, 45,924 records were tabulated, and it was found that 73·3 per cent. have normal vision, 10·9 per cent. are below normal in one eye, and 15·8 are below normal in both eyes, but the abnormality was serious in very few cases. City children have more defective eyesight than country children, and girls have weaker vision than boys. Visual defects were found most frequently at the early ages. Examinations of the teeth of 7,650 children disclosed that for boys the proportion of first teeth that were defective was 14 per cent., and of second teeth, 30 per cent., and for girls, 16 per cent. and 35 per cent., respectively.

INSANITY.

The number of insane persons in New South Wales, under official cognizance in the various Government hospitals for the treatment of the insane, at the end of 1909 was 5,902, equal to 3·6 per 1,000 of the population, or one insane person in every 279. This rate is slightly below that prevailing in England.

The hospitals for insane under the immediate control of the Government are seven in number, and provision is made at Parramatta for criminals. There are also licensed houses at Picton, Ryde, and St. Peters, and, by arrangement, the South Australian hospitals are available for patients from the Barrier and extreme western districts of New South Wales.

In the following table is stated the average number of persons in hospitals for the insane at the close of each year, and the proportion per 1,000 of the population during quinquennial periods since 1876:—

Period.	Average Number of Insane Persons.			Proportion per 1,000 of Population.		
	Males.	Females.	Total.	Males.	Females.	Total.
1876-1880	1,180	605	1,785	3·20	1·96	2·63
1881-1885	1,482	909	2,391	3·12	2·34	2·77
1886-1890	1,776	1,126	2,902	3·09	2·35	2·77
1891-1895	2,104	1,331	3,435	3·23	2·37	2·83
1896-1900	2,482	1,604	4,086	3·54	2·58	3·09
1901-1905	2,918	1,964	4,882	3·85	2·90	3·37
1906	3,271	2,226	5,497	4·01	3·12	3·59
1907	3,323	2,253	5,576	3·95	3·08	3·54
1908	3,356	2,317	5,673	3·90	3·11	3·53
1909	3,510	2,392	5,902	3·97	3·14	3·59

From these figures it appears that the rate of insanity has a tendency to increase, but, in order to ascertain the exact conditions, a general rate is an indifferent guide, and it is necessary to discuss the relative figures in age groups, since the age incidence is a variable quantity and insanity is more essentially an infliction of advancing age.

An inspection of the subjoined table of the insane persons both male and female in other States and New Zealand at the end of 1909, and the rate per 1,000 inhabitants of each sex, will show considerable variation in the rate of insanity:—

State.	Number of Insane.			Per 1,000 of Population.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
New South Wales	3,510	2,392	5,902	3·97	3·14	3·59
Victoria	2,642	2,558	5,200	4·04	3·98	4·01
Queensland	1,383	844	2,227	4·38	3·21	3·85
New Zealand	2,083	1,466	3,549	3·96	3·14	3·57

The remarkable difference arises between the Australian States and England and Wales that in England the greater proportion of insanity is found amongst women, whereas in Australia it is found amongst men. In England and Wales the rate per 1,000 males in 1909 was 3·47, and per 1,000 females 3·74

The number of admissions to hospitals for the insane during the last twenty years, and the proportion per 1,000 of the mean population, are given below:—

Year.	Admissions and Readmissions.	Proportion to population per 1,000.	Year.	Admissions and Readmissions.	Proportion to population per 1,000.
1890	611	0·55	1900	859	0·63
1891	596	0·52	1901	848	0·62
1892	666	0·57	1902	947	0·68
1893	688	0·57	1903	1,065	0·75
1894	712	0·58	1904	1,020	0·71
1895	715	0·57	1905	1,009	0·68
1896	740	0·58	1906	1,123	0·74
1897	692	0·54	1907	977	0·63
1898	730	0·56	1908	969	0·60
1899	796	0·60	1909	1,070	0·66

From the figures above, it appears that the rate of admissions was lowest in 1891, when the proportion was 0·52 per 1,000 of population, and afterwards it increased gradually until 1899. From 1900 the increase has been more pronounced, till the proportion reached 0·75 in 1903, in which year there was a large number of readmissions. In the next two years the rate decreased, but in 1906 the largest number of readmissions was recorded, and the total rate reached 0·74. Prior to 1893 there was no law in force to prevent the influx of insane into the State. In that year new legislation rendered the owner, charterer, agent, or master of a vessel liable for the maintenance of any insane person landed in the State.

Omitting the rare cases where patients have absconded, the next table shows, in quinquennial periods, in comparison with 1908 and 1909, the total number of patients who were discharged from the hospitals, either on account of recovery, permanent or temporary, or who died, and the proportion borne by each to the average number resident during each period:—

Period.	Average Number Resident.	Discharged—recovered or relieved.		Died.	
		Number.	Per cent. of Average Number Resident.	Number.	Per cent. of Average Number Resident.
1883-1887	12,678	1,246	9·83	876	6·91
1887-1892	14,964	1,465	9·79	1,026	6·86
1893-1897	17,863	1,742	9·75	1,148	6·43
1898-1902	20,796	2,045	9·83	1,381	6·64
1903-1907	24,940	2,419	9·70	1,848	7·41
1908	5,362	467	8·71	402	7·50
1909	5,599	489	8·73	365	6·21

Therefore, it appears that the percentage of discharged patients is fairly constant, but the percentage of deaths is increasing. The number of deaths during 1909 was considerably below the average.

Juvenile lunatics are sent usually to the Hospital for the Insane at Newcastle—an asylum reserved for imbecile and idiot patients.

In the following table is shown the incidence of the various causes of insanity. The calculations have been based on the apparent or assigned causes in the cases of all patients admitted and readmitted into the asylums and licensed houses for the insane during the last quinquennium:—

Cause.	Males.	Females.
	New South Wales.	New South Wales.
	per cent.	per cent.
Domestic trouble, adverse circumstances, mental anxiety	10·00	16·72
Intemperance in drink	15·60	7·80
Hereditary influence, or congenital defect, ascertained	16·42	18·12
Functional disorders... ..	.....	10·64
Previous attacks	13·68	14·46
Accident, including sunstroke	4·73	0·83
Old age... ..	7·42	4·75
Puberty	2·79	2·23
Epilepsy and diseases of skull and brain	6·16	3·92
Other ascertained causes	11·10	12·69
Unknown	12·10	7·84
Total	100·00	100·00

Intemperance in drink is stated to be a fruitful cause of insanity, but the above table shows that hereditary influence is also an important factor. Amongst females the chief causes of insanity are hereditary influence and domestic troubles. It is believed that hereditary influence and congenital defect are responsible in New South Wales for a much larger percentage of cases than the number shown in the table, and that of the unknown causes the great majority should be ascribed to hereditary influences. The small proportion of cases from these two causes is due to the difficulty in obtaining knowledge of the family history of many who enter the asylums.

The average weekly cost of maintaining insane patients in Government asylums during the year 1909 was about 11s. 8½d. per head, of which the State paid 9s. 6½d., the balance being derived from the estates of the patients themselves, or from their friends. The subjoined table shows the average weekly cost per head, and the average private contributions, from 1900 to 1909:—

Year.	Average number resident.	Cost of maintenance of Patients.	Cost per head to State.		Contribution per head from private sources.		Total weekly cost per head	
			£	s. d.	s. d.	s. d.		
1900	No. 4,131	£ 115,790	9	2	1	7½	10	9½
1901	4,225	123,531	9	5½	1	9½	11	2½
1902	4,376	143,253	10	11½	1	7½	12	7½
1903	4,580	151,309	10	10	1	10½	12	8½
1904	4,742	139,974	9	5½	1	10½	11	4½
1905	4,901	137,971	8	9½	2	0½	10	10
1906	5,115	143,245	8	8½	2	0½	10	9½
1907	5,285	149,728	8	9	2	1½	10	10½
1908	5,438	165,428	9	8½	2	2½	11	10½
1909	5,459	166,528	9	6½	2	2½	11	8½

The figures for 1909 are exclusive of the Morisset Hospital which was opened during the year.

In the course of the last ten years the number of patients resident in the hospitals for insane has increased by 32·1 per cent. ; and during the same period the increase in expenditure has been 43·8 per cent.

DIVORCES.

Since the passing of the existing Act of 1892, by which the grounds of divorce were extended, the business of the Divorce Court has increased, so that out of a total of 6,474 petitions for divorce, 563 for judicial separation, and 67 for nullity of marriage, presented to the Court from 1873 to the end of 1909, no less than 5,646 petitions for divorce, 483 for judicial separation, and 65 for nullity of marriage, representing 87 per cent. of the total petitions, have been presented in the course of the last seventeen years. Of the 6,474 petitions for divorce, 1,630 were presented *in formâ pauperis*.

The following statement shows the divorces, judicial separations, and decrees of nullity of marriage granted in New South Wales since the year 1873:—

Period.	Divorces.		Judicial Separation granted.	Nullity of Marriage.	
	Decrees nisi.	Decrees absolute.		Decrees nisi.	Decrees absolute.
1873-1877	55	33	...	...	...
1878-1882	85	70	...	...	...
1883-1887	141	120	8	2	2
1888-1892	305	224	31	5	5
1893-1897	1,403	1,308	55	7	7
1898-1902	1,183	1,093	89	12	12
1903-1907	983	830	61	13	10
1908	196	195	15	3	...
1909	306	272	12	3	4
Total ...	4,657	4,145	271	45	40

Prior to 1873 no Divorce Act had been passed and, therefore, no divorces were granted in the State. From the 1st July in that year down to the end of 1892 the number of divorce decrees made absolute was 447. In the month of August, 1892, the present Divorce Act came into force, and in 1893 the number of decrees was 247, rising in the following year to 288; but in 1908 the number had decreased to 195. The number of divorces per 10,000 marriages in New South Wales was 347 during the two years 1893-94, 277 during the five years 1895-99, 206 during the five years 1900-04, and 149 during the five years 1905-9. It is only fair to assume that after the new Act was passed in 1892 advantage was taken of its provisions to dissolve marriages which would have been broken long before had the grounds on which divorce is granted always been the same; and this, no doubt, accounts for the diminished number of divorces granted since 1895. Bearing this in mind, however, it is clear that the number of decrees absolute in 1909 was still very large.

Reckoning as a divorce only those cases where the decree has been made absolute, the total number of decrees, from 1873 to 1909, was 4,456, of which 4,145 were divorces, 40 cases of nullity of marriage, and 271 judicial separations. In the following pages, where certain particulars of divorce are given, these 4,456 cases are considered as a whole.

The total number of decrees granted at the instance of the husband was 1,356; and at the instance of the wife 3,100. The next statement gives the sex of the petitioner for each case of divorce, judicial separation, and nullity of marriage :—

	Divorce.	Judicial Separation.	Nullity of Marriage.
Husband	1,301	31	24
Wife	2,844	240	16

Of every 100 decrees granted in the State, the wife has been the petitioner in 70, and the husband in 30 cases.

In a large proportion of successful divorce petitions, relief is sought on more than one ground, and to give a statement of the grounds as they are set forth in the petitions would be to enter into useless detail. The appended table, therefore, shows only the more important grounds :—

Grounds of Suit.	Divorces (Decrees <i>Nisi</i> made absolute).	Judicial Separation granted.	Decrees of Nullity of Marriage made absolute.	Total.
Adultery	1,374	36	...	1,410
" and cruelty, desertion	306	22	...	328
" " habitual drunkenness, &c.	58	4	...	62
" " other grounds	8	1	...	9
Bigamy and adultery, cruelty, and desertion	38	...	27	65
Cruelty ... ..	...	82	...	82
" and desertion, habitual drunkenness, &c.	269	20	...	289
Desertion	1,844	10	...	1,854
" and habitual drunkenness, &c.	48	...	...	48
" " other grounds	18	...	...	18
Habitual drunkenness and neglect to support, &c.	122	6	...	128
Imprisonment for three years and upwards	24	...	...	24
Lunacy of petitioner... ..	...	...	1	1
Repeated assaults and cruel beatings	31	...	...	31
By consent, without admissions ... ..	...	90	...	90
Others	5	...	12	17
Total	4,145	271	40	4,456

The religious denomination, as shown in the marriage certificate, is that of the minister officiating at the marriage ceremony, and, except in the case of matrimonial agencies, represents the religious belief of at least one of the parties. In the following table is shown the denomination of marriages in all cases of divorce, judicial separation, and nullity of marriage :—

Denomination.	Divorces, Judicial Separations, and Nullity of Marriage.	Denomination.	Divorces, Judicial Separations, and Nullity of Marriage.
Church of England	1,800	Hebrew	32
" " Free	19	Others... ..	77
Roman Catholic	446	Registrar	403
Methodist	501	Not stated	25
Presbyterian	632	Matrimonial Agencies	118
Baptist	96		
Congregational	307	Total	4,456

From this table it appears that of the 4,456 divorces, &c., up to the end of 1909, 1,800, or 40.4 per cent. of the marriages were solemnised by the Church of England, the next in order being the Presbyterians with 632, or 14.2 per cent., followed by the Methodists, 501 (11.2 per cent.); Roman Catholics, 446 (10.0 per cent.); and Congregational, 307 (6.9 per cent.). In 403 cases, or 9.0 per cent., the ceremony had been performed at a Registrar's office, and in 118 cases (2.6 per cent.) at matrimonial agencies.

Of the 4,456 couples who were divorced or judicially separated, or whose marriage was declared null, the duration of marriage ranged from one to fifty years, as shown in the appended table:—

Duration in Years.	Divorce, Judicial Separation, and Nullity of Marriage.	Duration in Years.	Divorce, Judicial Separation, and Nullity of Marriage.
1	39	30-34	62
2	55	35-39	21
3	100	40-44	8
4	212	45	2
5-9	1,459	47	1
10-14	1,221	50	1
15-19	747		
20-24	356		
25-29	172	Total ...	4,456

It thus appears that 406 couples, or 9.1 per cent. of the total, had been married for a period of less than 5 years; 1,459, or 32.7 per cent. of the whole number, had been married for periods ranging from 5 to 10 years; 1,221, or 27.4 per cent., between 10 and 15 years; and 747, or 16.8 per cent., between 15 and 20 years. In no less than 528 cases the duration of the marriages was between 20 and 30 years; and in 95 cases the period was even greater, extending, indeed, over 40 years in the case of 12 couples; the average duration of marriage for the 4,456 dissolutions being 12.2 years.

The following table shows the number of children to each family, also the cases where no issue was born to the marriage:—

Number of Children.	Divorce, Judicial Separation, and Nullity of Marriage.	Number of Children.	Divorce, Judicial Separation, and Nullity of Marriage.
0	1,427	10	11
1	1,085	11	10
2	746	12	4
3	453	13	1
4	255	14	1
5	164	15	1
6	114	Not stated ...	36
7	67		
8	44		
9	37	Total ...	4,456

In 32.0 per cent. of the cases in which the decree was granted, the ties between the parties had not been strengthened by the birth of children; for of the 4,456 successful petitions for divorce, judicial separation, or nullity of marriage, no less than 1,427 were childless unions, while the number may have been even larger, as in 36 other cases the information did not disclose the necessary particulars regarding the fruitfulness of the unions. The number of children affected by the other 2,993 decrees was 7,924.

The conjugal condition prior to marriage of the contracting parties to the marriages concerning which the petitions for divorce and nullity of marriage were made absolute, and judicial separations were granted, is shown in the following table:—

Conjugal Condition of Males.	Conjugal Condition of Females.				Total Males.
	Spinster.	Widow.	Divorced.	Not stated.	
Bachelor	3,759	179	19	...	3,957
Widower... ..	164	63	5	1	233
Divorced... ..	14	4	2	...	20
Not stated	52	10	...	121	183
Total, Females ...	3,989	256	26	122	4,393

These figures are exclusive of 36 decrees made absolute on account of a previous marriage, as in 34 cases the husband was previously married and the wife in 2 cases. There were also 27 nullity suits made absolute, 9 on account of the previous existing marriage of the husband, and 18 on account of the previous existing marriage of the wife.

The ages of the parties are not of great value unless combined with the duration of marriage. The large number whose ages are not ascertained also detracts from the value of the information. The ages were unknown in 823 marriages, or 18.5 per cent. of the total, and of the remaining 3,633, it may be said that the great majority related to marriages contracted between parties of suitable ages, 2,518 being between husbands of the ages from 21 to 39 years inclusive, and wives of the ages from 18 to 30 years inclusive. In 959 cases, however, the marriage had been contracted at very early ages, the husband being below 21 years in 375 cases, and the wife below 18 in 584 cases, while there were 133 cases in which the husband was less than 21 and the wife less than 18 at the time of marriage. There were only 122 cases in which the husband had been 40 or over at the time of marriage, and 146 in which the wife had been 31 or over, while unions in which the husband had been 40 or over and the wife 31 or over numbered but 52.

HABITATIONS OF THE PEOPLE.

The houses of the people are important indications of social condition, as the dwellings, according to the materials of which they are built, the number of rooms, and the number of occupants, are important measures of the well-being of the persons who inhabit them.

The following statement shows the various kinds of habitations, the number of occupants, and the proportion of each to the total at the census of 1901:—

Dwellings.	Number.	Occupants.	Proportion per cent.		Occupants per Dwelling.
			Dwellings.	Occupants.	
Inhabited—					
Private dwellings	237,448	1,221,571	88·35	90·70	5·14
Boarding-houses	4,045	42,336	1·50	3·14	10·47
Hotels	3,093	35,544	1·15	2·64	11·49
Other households	368	6,664	·14	·50	18·11
Institutions	452	18,978	·17	1·41	41·99
Tents and camps	7,096	18,227	2·64	1·35	2·57
Total inhabited	252,502	1,343,320	93·95	99·74	5·32
Uninhabited	14,831	.....	5·52	.....	.....
Under construction	1,438	.....	·53	.....	.....
Migratory population ... ..	.....	3,500	.....	·26	.....
Total	268,771	1,346,820	100·00	100·00	.....

Private dwellings sheltered 90·7 per cent., boarding-houses 3·1 per cent., and hotels 2·6 per cent. of the people. Hotels numbered 3,093, or a proportion of 1 to every 440 of the population.

The dwellings, including inhabited, uninhabited, and those under construction, classified according to the materials of which they were built were as follow in 1901:—

Material of which built.	Number.	Proportion per cent.
Stone	10,793	4·02
Brick	92,879	34·56
Concrete, adobe, pisé	1,525	0·57
Iron	5,380	2·00
Wood	140,482	52·27
Lath and plaster, mud, bark	4,952	1·84
Canvas, calico	8,874	3·30
Indefinite, unspecified	3,886	1·44
Total	268,771	100·00

The principal materials used for building are wood and bricks, more than half the dwellings being built of the former material, and over one-third of the latter; 4 per cent. are built of stone, and 2 per cent. of iron. The dwellings constructed of canvas and calico are tents in nearly all instances.

The next table shows the number of houses of various sizes, and the distribution of their occupants:—

Number of Rooms in House.	Number of Houses.	Occupants.	Proportion per cent.		Persons to a House.
			Houses.	Occupants.	
1	6,755	10,209	2·78	·79	1·51
2	14,079	41,160	5·90	3·18	2·92
3	23,340	92,865	9·61	7·17	3·98
4	50,858	241,683	20·95	18·65	4·75
5	55,294	292,060	22·77	22·54	5·28
6	40,246	236,280	16·57	18·23	5·87
7 to 10	42,825	283,975	17·64	21·92	6·63
11 to 15	6,764	57,246	2·79	4·42	8·46
16 to 20	1,533	17,579	0·63	1·36	11·47
Over 20	1,123	22,633	·46	1·74	20·15
Not stated ...	2,137	10,425	.....	.....	.....
Total ...	244,954	1,306,115	100·00	100·00	5·33

It will be seen that 57 per cent. of the houses contained from 5 to 10 rooms, and that nearly two-thirds of the population were living in them, the average number of occupants per room being under one; while 30 per cent. of the houses contained 3 and 4 rooms, and were occupied by slightly more than one-fourth of the population.

DOMESTIC SERVANTS.

The following statement shows the number of domestic servants who were employed in the various classes of households at the census of 1901:—

Class of Household.	Total Households.		Households employing domestic servants.	
	Number.	Occupants.	Number.	Number of servants.
Private families ...	237,448	1,221,571	21,885	28,703
Boarding-houses ...	4,045	42,336	1,010	1,696
Hotels ...	3,093	35,544	2,455	6,043
Other households ...	822	25,652	361	942
Total...	245,408	1,325,103	25,711	37,384

Only those domestic servants are included above who were known to be sleeping at their place of work; there were, in addition, 2,902 sleeping away from their place of work on the night of the census.

The principal feature of the above table is the number of servants employed in private families, and it will suffice perhaps if these only are considered, as in boarding-houses and hotels servants are more or less necessary for the proper conduct of the business. At 3,035 boarding-houses and 638 hotels apparently no servants were employed.

It is found that in private families 2·4 per cent., in boarding-houses 4·0 per cent., and in hotels 1·7 per cent., of the total occupants were servants.

The next table distributes the servants of private families according to the number employed, and to the size of the house where they were employed:—

Number of Rooms in House.	Total House- holds.	Households employing specified number of Servants.					Total House- holds employing Servants.	Total Servants employed.
		0	1	2	3	4 and over.		
1 and 2 ...	20,823	20,760	61	2	.....	.....	63	65
3 and 4 ...	73,990	72,167	1,775	47	1	.....	1,823	1,872
5 and 6 ...	94,343	88,072	5,955	280	28	8	6,271	6,634
7 to 10 ...	40,651	30,461	8,140	1,644	357	49	10,190	12,706
11 to 15 ...	4,763	1,986	1,216	893	462	206	2,777	5,301
16 to 20 ...	637	154	111	129	115	128	483	1,334
Over 20 ...	• 195	33	22	30	33	77	162	619
Not stated ...	2,046	1,930	82	19	9	6	116	172
Total ...	237,448	215,563	17,362	3,044	1,005	474	21,885	23,703

As the houses increase in size the proportion employing servants increases, and the proportion of servants themselves increases. The greater number of households employ only one servant. Altogether, 9·2 per cent. of the private families employ a servant; in the Metropolis the proportion is 11·3 per cent., and in the remainder of the State 8 per cent. The number of servants employed averaged 12·1 to every 100 families in New South Wales, 14·9 to every 100 in the Metropolis, and 10·5 to every 100 in the country.

LAND LEGISLATION AND SETTLEMENT.

AREA OF STATE.

THE area comprised within the limits of New South Wales is estimated at 310,367 square miles, or 198,634,880 acres, being a little over two and a half times that of Great Britain and Ireland. Excluding the surface covered by rivers and lakes, the area is 195,669,000 acres, or about 305,733 square miles. Lord Howe Island, a dependency of New South Wales, situated about 300 miles east of Port Macquarie has an area of 5 square miles.

The length of the State, from Point Danger on the north to Cape Howe on the south, is 683 miles. From east to west, along the 29th parallel, the breadth is 756 miles, while diagonally from the south-west corner, where the Murray passes into South Australia, to Point Danger the length reaches 984 miles.

EARLY SETTLEMENT.

From the early days of settlement until the year 1861 the Crown disposed of lands under prescribed conditions, by grants, and by sales, so that by the end of 1861 an area of 7,146,579 acres had been alienated, as shown in the statement below :—

	acres.
1. By grants, and sales by private tender to close of 1831	3,906,327
2. " " in virtue of promises of early Governors made prior to 1831, from 1832-40 inclusive	171,071
3. " sales at auction, at 5s., 7s. 6d., and 10s. per acre, from 1832-38 inclusive	1,450,508
4. " " " " 12s. and upwards per acre, at Governor's discretion, from 1839-41 inclusive	371,447
5. " " " " 20s. per acre, from 1842-46 inclusive	20,250
6. " " " and in respect of pre-emptive rights, from 1847-61 inclusive	1,219,375
7. " grants for public purposes, grants in virtue of promise of Governor made prior to the year 1831, and grants in exchange for lands resumed from 1841-61 inclusive	7,601
Total alienated on 31st December, 1861	7,146,579

In treating of the disposal of rural property, it should be noted that certain grants were made under special enactments. Under instructions from the Imperial authorities to Sir Thomas Brisbane, the Governor was directed to reserve one-seventh of the Crown lands in each county for Church and School purposes, but these instructions were not fully observed, as the reservations did not amount to the proportional area specified.

The reserves were stated at 443,486 acres, which subsequent surveys show to be actually 454,050 acres. These lands were administered by the Clergy and School Land Corporation until the abolition of that body by Order of Council on the 4th February, 1833; the lands reverted to the Crown, and an agent was appointed to determine the claims of purchasers, to whom deeds of grant were made, which were confirmed by a subsequent Act of Council, dated the 5th August, 1834.

Of the area mentioned above, 171,746 acres were alienated up to the year 1880, when, by the Church and School Lands Dedication Act of that year, the balance of 282,304 acres came under the control of the State legislature to be administered for the purpose of Public Instruction. The Church and

School Lands Act of 1897, however, vested these lands in the Crown, free from all trusts and conditions, but subject to the provisions of the Crown Lands Act of 1884 and any subsequent amending Acts, thus determining the land as Crown land. Until a notification classifying any area of Church and School Lands has been published in accordance with the Crown Lands Act of 1895, such area may be dealt with only by reservation, dedication, license, or held under special or annual lease.

The Australian Agricultural Company was incorporated by an Act of the Imperial Parliament, dated the 21st June, 1824, and a promise of a grant of 1,000,000 acres made to this Company was fulfilled in the following year. Originally a grant containing 1,048,960 acres was selected in the country surrounding Port Stephens, but in 1832 the Company was authorised to exchange a portion of this grant, containing 600,000 acres, for two areas situated on the Peel River and on the Liverpool Plains, respectively. These three grants are of the following extent :—

	acres.
Port Stephens Estate, County of Gloucester	464,640
Peel River Estate, County of Parry	249,600
Warrah Estate, Liverpool Plains, County of Buckland... ..	313,298
Total	1,027,538

■ In addition to this land, the Company obtained from the Crown the promise of a lease of the coal-fields at Port Hunter (Newcastle) for thirty-one years. This, however, was exchanged for a grant of 500 acres, an area which was increased in 1828 to 2,000 acres of coal land, upon which the Company's collieries are now situated.

OCCUPATION OF PASTORAL LANDS.

The pastoral lands of New South Wales have been occupied under various systems. Land was held for grazing in the early days by virtue of tickets of occupation, the issue of which was stopped in 1827, when holders of such lands were required to pay a quit-rent of 20s. per 100 acres per annum, and to vacate the land at six months' notice. The requirements of the settlers for depasturing their increasing stock induced them to occupy Crown lands without any right except that of first discovery, and as they extended their operations inland the Legislature found itself compelled, in 1833, to pass an Act protecting Crown lands from intrusion and trespass; and Commissioners were appointed to safeguard the interests of the State.

The discovery of new country soon attracted pioneer squatters beyond the limits of settlement as proclaimed on the 14th October, 1829; and, without authority or license, large tracts of Crown lands were occupied. Fresh regulations, in which severe penalties were enacted, were issued on the 29th July, 1836, with the view of restraining this unauthorised occupation. These regulations being in many cases disregarded, an Act was passed in 1839, to further restrain; and for the purposes of administration a yearly assessment was levied upon stock at the following rates :— $\frac{1}{2}$ d. for every sheep; $1\frac{1}{2}$ d. per head of cattle; and 3d. for every horse.

Under an Act passed in 1847 a new system was introduced relating to pastoral lands. Previously the tenure had been annual, and the fee was based on the area of land occupied by the squatter. Under the new plan fixity of tenure of lease was substituted, and the license fee calculated upon the stock-carrying capacity of the run; the term of the pastoral leases in the unsettled districts was fixed at fourteen years, in the intermediate division eight years, and in the settled districts the yearly tenure was retained. The licensing fee under the altered conditions was charged at the rate of £10 for 4,000 sheep, or a proportional number of cattle—which was the minimum at which the

stock-carrying capabilities of a run could be assessed—and £2 10s. for every additional 1,000 sheep, or proportionate number of cattle. In the settled districts lands were let for pastoral purposes only, in sections of not less than one square mile in area, the annual rental for each section being fixed at 10s. The holders of alienated lands were permitted to depasture their stock upon Crown lands adjoining their holdings free of charge; this permission, however, constituted only a commonage right.

The Occupation Act of 1861 created a new system, limiting the tenure of pastoral leases to five years in the unsettled, and intermediate or second-class settled districts, and leaving the whole of the pastoral leases open to the operations of the free selectors. The evils resulting from this system led Parliament to adopt, in 1884, 1889, 1895, and at intervals since 1903, the measures at present in force, the provisions of which are described below.

CROWN LANDS ACT OF 1861.

The conditions of colonisation altered greatly under the powerful attraction of the gold-fields; and, after the first excitement of the rush for gold had died out, the question of land settlement had to be discussed in an entirely new spirit, to meet the wants of a class of immigrants of a different type from those contemplated by former enactments, the result being the passing of the Crown Lands Act of 1861, by Sir John Robertson. Before this Act became law, the conditions of settlement rendered it difficult for men of small means to establish themselves with a fair chance of success. The new measures aimed at facilitating the settlement of an industrial agricultural population side by side with the pastoral tenants; and, with this in view, the Act introduced a principle entirely new to the land legislation of the State, namely, that of free selection, in limited areas, *before survey*. The Act provided for the conditional purchase of areas from 40 to 320 acres in extent at £1 per acre—25 per cent. of the purchase money to be deposited with the application. At the expiration of three years the purchaser was required to pay the balance, and to furnish a certificate showing that he had resided on the land, and made the necessary improvements. Provision was made to defer the payment of the balance of the purchase money on the payment of 5 per cent. interest.

These provisions, however, were modified by the Amending Act of 1875, under which annual instalments were payable, and the option was given to any conditional purchaser of land to avail himself of the change in the method of payment. The system of unconditional sales was, however, continued under the Act of 1861; and during the twenty-three years the Act was in operation 23,470,140 acres were sold conditionally, and 15,572,001 acres by auction, by improvement purchase, by virtue of pre-emptive right, or otherwise without conditions, the total area alienated being 39,042,141 acres. In a very large number of cases the land selected, or purchased, reverted to the State, so that the absolute area sold or in process of sale when the Act of 1884 came into force amounted to only 32,819,023 acres, besides 7,146,579 acres alienated prior to 1861.

THE CROWN LANDS ACTS OF 1884 AND 1889.

After many amendments the Act of 1861 was superseded by that of 1884, with the supplementary enactment of 1889. Though differing widely from the old Act in many important particulars, these measures maintained the principle of free selection before survey, but with one essential difference. Under the original Act the whole area of the Crown lands was thrown open to free selection, including the lands held under pastoral lease. The Acts of 1884 and 1889 were devised to give fixity of tenure to the pastoral lessee and to obtain a larger rental from the public lands, at the same time restricting the area sold unconditionally.

Consequently existing holders of pastoral leases under the old Act were required to surrender one-half of their leases, which were resumed by the Crown for subsequent alienation, leasehold, or reserve; the other half in each case was leased to the pastoralist under fixity of tenure for a term of years. On the 31st December, 1884, when this division was made, there were 4,313 leased runs, yielding an annual rental of £268,500, and forming about 1,600 "stations," estimated to contain the bulk of the unalienated public estate, after allowing for reserves, &c. An increase in the revenue from pastoral occupation, one of the principal objects of the Act of 1884, has been realised, as evidenced by the total revenue received from the pastoral occupation of Crown lands, which increased from £329,356 in the year 1884 to £604,707 in the year 1908-9.

THE CROWN LANDS ACTS OF 1895 AND 1903 TO 1908.

The Act of 1861 conspicuously failed to encourage *bona-fide* settlement; and the same must be said of the legislation of 1884 and 1889, since the accumulation of land in large estates continued, while settlement proceeded very slowly. Expert opinion strongly pointed to the necessity of introducing entirely new principles, and this was done in the Crown Lands Acts of 1895 and 1903, which, while placing land within easy reach of all, supply the means of securing permanent settlers through the new system of tenure—homestead selections and settlement leases.

The State is divided into three territorial divisions, Eastern, Central, and Western; the boundary lines running approximately north and south. The control of the lands within the Western Division is vested in the Western Lands Board, consisting of three Commissioners. The Eastern and Central divisions are subdivided into Land Districts, in each of which is stationed a Crown Land Agent, whose duty is to receive applications and furnish information regarding land. Groups of these districts are arranged in larger areas, under the control of Land Boards, whose decisions are subject to review by the Land Court.

The Land Court is composed of a President and two Commissioners, whose decisions in matters of administration have the force of judgments of the Supreme Court; but whenever questions of law arise, a case may be submitted to the Supreme Court, either at the written request of the parties interested, or by the Land Appeal Court. The conditions of alienation and pastoral occupation of Crown Lands differ in each of the three divisions of the State.

The Eastern Division has an area of 61,260,326 acres, and includes a broad belt of land between the sea-coast and a line nearly parallel to it. This line starts from a point midway between the small settlements at Bonshaw and Bengalla on the Dumaresq River, and terminates at Howlong, on the River Murray, thus embracing the coastal districts of the State, as well as the northern and southern tablelands. In this division is to be found excellent agricultural land, and here lie all the original centres of settlement, the markets of the State being readily accessible. For these reasons, the conditions for the purchase and occupation of the Crown lands in the Eastern Division are more restricted than is the case in the Central and Western Divisions.

The Central Division embraces an area of 57,055,846 acres, extending from north to south between the western limit of the Eastern Division and a line starting from a point on the Macintyre River, where it is crossed by the 149th meridian of east longitude, and following this river and the Darling to the junction of Marra Creek; thence along that creek to the Bogan River, and across to the River Lachlan, between the townships Euabalong and Condobolin, along the Lachlan to Balranald, and thence

to the junction of the Edward River with the Murray. The area thus defined contains the upper basin of the Darling River in the northern part of the State, and portions of those of the Lachlan, the Murrumbidgee, and other affluents of the Murray in the south. The land in this division is devoted mainly to pastoral pursuits; but experience having proved that it is suitable for agriculture, the cultivated area has increased considerably.

The Western Division is situated between the western limit of the Central Division and the South Australian border. It contains an area of 80,318,708 acres, watered by the Darling River and its tributaries, and is devoted to pastoral pursuits. Water conservation and irrigation may in time counteract climatic conditions and irregular rainfall, and make agriculture possible over this large area, as its soil is adapted to the growth of any kind of crop; but legislation in regard to the occupation of the lands of the district is based upon the assumption that for many years to come there will be little inducement for agricultural settlement.

Under the Acts at present in force, land may be acquired by the following methods:—

- (1) Conditional and additional conditional purchase with residence;
- (2) Conditional purchase without residence;
- (3) Classified conditional purchase;
- (4) The preferent right of purchase attached to conditional leases;
- (5) Improvement purchases on gold-fields;
- (6) Auction sales;
- (7) After-auction sales;
- (8) Special sales without competition;
- (9) Exchange;
- (10) Volunteer land orders;
- (11) Homestead selection.

Crown lands may be occupied under the following systems of lease, viz.:—

- (1) Annual;
- (2) Conditional purchase;
- (3) Conditional;
- (4) Inferior lands;
- (5) Occupation license;
- (6) Pastoral;
- (7) Scrub;
- (8) Special;
- (9) Residential on gold and mineral fields;
- (10) Improvement;
- (11) Settlement;
- (12) Snow-lands;
- (13) Working men's blocks.

The maximum area which may be conditionally purchased differs in the Eastern and Central Divisions. In the Western Division land can be occupied only under lease, or alienated by auction.

Conditional Purchases.

Any unreserved Crown lands in the Eastern and Central Divisions not held under pastoral or other lease are available for conditional purchase, and lands held under annual lease or occupation license may also be acquired in this way. Land under conditional lease in any division may be conditionally purchased, but only by the leaseholder. Lands within suburban boundaries or within population areas may be proclaimed as special areas, and are open to conditional purchase under the special conditions prescribed. The value of any improvements on a conditional purchase must be paid by the applicant.

Any person may take up a residential conditional purchase except those under the age of 16 years and married women who are living apart from their husbands and have not obtained orders of judicial separation, but no one under the age of 21 years may select a non-residential conditional purchase. Every conditional purchase must be made solely in the interest of the applicant. Minors who become conditional purchasers have the rights and liberties of persons of full age in connection with their land.

The minimum and maximum areas allowed for each class of conditional purchase are as follow :—

Class.	Division.	Minimum Area.	Maximum Area.
Residential	Eastern	acres. 40	acres. 640
„	Central	40	2,560
Non-residential... ..	Eastern	40	320
„	Central	40	320
Special area	Eastern ... ..	.....	320
„	Central ... ..	.....	640

With regard to special areas, both the minimum and maximum areas are subject to proclamation in the *Government Gazette*, and, are, therefore, liable to limitation. It is open to any conditional purchaser to take up the maximum area at once, or by a series of purchases at convenient intervals. With the exception of non-residential purchases, provision is made in the Crown Lands Amendment Act, 1908, that the specified maximum areas may be exceeded by means of additional holdings, the area of which, together with all other lands held, other than on annual tenure, must not exceed a home maintenance area. For the purposes of the Act a home maintenance area means an area which, used for the purpose for which it is reasonably fitted, would be sufficient for the maintenance in average seasons and circumstances of an average family. The additional holdings need not necessarily adjoin the original holdings, but must be situated within a reasonable working distance.

Under the Crown Lands Act Amendment Act of 1905 areas may be set apart for original holdings, or for additional holdings; but no area may be selected under both classes of holdings. Original holdings include (a) original conditional purchases and (b) original conditional purchases and conditional leases taken up in respect of, and at the same time as, the original conditional purchase within the area. Additional holdings include (a) additional conditional purchases and (b) conditional leases other than those previously mentioned. Values and rentals are specified in the official notices under this Act. Lands may be classified and set apart, by notification, at specified prices.

An application for a conditional purchase, or for an additional conditional purchase, must be lodged with the Crown Lands Agent of the district in which the land is situated, and a deposit and survey fee paid at the same time. The deposit on residential purchases is at the rate of 5 per cent. of the price of the land, and 4s. per acre on non-residential purchases of ordinary land; but on special areas, and on lands within classified areas, it varies according to the prices fixed for the land. Under ordinary conditions the balance of purchase money, with interest at 4 per cent. per annum, is cleared off by thirty annual payments of 1s. per acre. The first instalment is due at the expiration of three years from the date of the contract. In the case of holdings brought under the Conditional Purchasers' Relief Act of 1896, the instalments may be reduced to 9d. per acre, and in some instances to 6d. per acre, thereby extending the total period of repayment to sixty-six years, provided the holders of the conditional purchases remain in residence. By the Crown Lands Act Amendment Act of 1903, the rate of interest on the

balance of purchase money has been reduced to $2\frac{1}{2}$ per cent. per annum for any conditional purchase after the passing of that Act, and in certain cases, in respect of conditional purchases made before the passing of that Act. Upon the receipt of an application for a conditional purchase the Land Board may cause the land to be surveyed and a report to be supplied by the surveyor; and may either confirm or disallow the application. In the case of confirmation a certificate is issued to the applicant.

The original conditional purchase must be occupied continuously by the selector for a period of ten years, and residence must be commenced within three months after the application has been confirmed by the Land Board, who may grant leave of absence under special circumstances. Each additional conditional purchase or conditional lease is subject to the condition of residence indicated, but the place of residence may be on any block of the series, and the term may be reduced by the applicant's previous residence on the series, up to, but not exceeding, five years.

The selector must enclose his land, within three years after confirmation, with such a fence as the Land Board may prescribe; but he may substitute improvements in lieu of fencing. In such a case, permanent improvements, of the value of 6s. per acre, but not exceeding £384, are required within three years, and these improvements must be brought up to the value of 10s. per acre, but not exceeding £640, within five years from the date of confirmation. In the case of non-residential purchases, the land must be fenced within one year after date of confirmation, and within five years other improvements to the value of £1 per acre must be effected. Under the Crown Lands Amendment Act, 1908, an original non-residential conditional purchase may be converted, with any non-residential conditional purchase made in virtue of it, into an original conditional purchase, provided that the ten years residence commences from the date of application for such conversion. This term of residence is subject to reduction, and all moneys previously paid are credited towards payment of the converted conditional purchase.

Any conditional purchases, or conditional leases of the same series, may be converted into a homestead selection, if the holder has been in *bona fide* residence for at least six months, in which case all moneys paid as interest or rent are deemed to have been paid for the use of the land, and all moneys paid off the purchase money are credited towards future rent of the selection.

Auction Sales and After-auction Purchases.

Crown lands are submitted to auction sale under two systems. Under the ordinary system the balance of purchase money is payable, without interest, within three months of the day of sale, while, under the deferred payment system, the balance is payable by instalments, with 5 per cent. interest, distributed over a period not exceeding five years; in either case, 25 per cent. of the purchase money must be deposited at the time of sale. Auction sales are permitted to the extent of 200,000 acres in any one year. Town lands may not be sold in blocks exceeding half an acre, nor at a lower upset price than £8 per acre; and suburban lands must not exceed 20 acres in one block, the minimum upset price being £2 10s. per acre. Country lands may be submitted in areas not exceeding 640 acres, the upset price being not less than 15s. per acre. The value of improvements on the land may be added to the upset price.

Improvement Purchases.

The holders of miners' rights or of business licenses on a gold-field in authorised occupation of land containing improvements, may purchase such land without competition. These improvements must include a residence or place of business, and be of the value of £8 per acre on town land, and £2 10s. on any other land.

Special Purchases.

Any unnecessary road which bounds or intersects freehold land, may be closed and sold to the freeholder at a price determined by the Land Board, and any unnecessary road which passes through land held under conditional purchase may be closed and added to the area.

Many Crown grants of land having water frontage contain reservations usually 100 feet from high-water mark, but the Crown may rescind the reservation, and convey the land to the holder of the adjoining land, at a price to be determined by the Land Board.

The owner in fee-simple of land having frontage to the sea, or to any tidal water or lake, who desires to reclaim and purchase any adjoining land lying below high-water mark, may apply to the Minister for Lands to do so, except in the case of Port Jackson, the control of which is vested in the Sydney Harbour Trust. Reclamations are not authorised which might interrupt or interfere with navigation.

Land encroached upon by buildings erected on granted land, or land situated between granted land and a street or road, which forms, or should form, the way of approach to the granted land, or land to which no way of access is attainable, or land which is insufficient in area for conditional purchase, may be purchased by the owner in fee-simple of the adjoining land, at a price determined by the Board.

Volunteer Land Orders.

Holders of certificates issued to volunteers who have served under the provisions of the Volunteer Force Regulation Act of 1867, are entitled to a free grant of 50 acres of land. These certificates entitle the holder to 50 acres of such land as may be open to conditional purchase, other than lands within a proclaimed special area. Claims to these grants will not be entertained unless lodged within three years after the commencement of the Crown Lands (Amendment) Act, 1908.

Exchanges of Land.

Before the granting of fixity of tenure in connection with pastoral leases, the lessees had made it a practice to secure portions of their runs by conditional purchases and purchases in fee-simple. The practice was disadvantageous to the public estate, since Crown lands were left in detached blocks severed by lessees' freehold properties, and the lessees realised that it would be convenient to them to gather their freeholds together in one or more consolidated blocks. This may be secured by means of a surrender of the private lands in exchange for Crown lands elsewhere.

Homestead Selections.

The appropriation of areas for homestead selection is a prominent feature of the Act of 1895, the land chosen for subdivision being good agricultural land. Where suitable lands are situated within easy access of towns, small blocks are set apart to meet the requirements of business people, the lands being available after particulars relating to area, capital value, &c., have been published in the *Gazette*. The maximum area that may be selected is 1,280 acres, but the selector is limited to a block as granted; the tenure is freehold, subject to perpetual residence and perpetual rent; the selector is required to deposit one-half year's rent and one-tenth of the survey fee with his application, and to pay for any improvements already on the land. The rent, until the expiration of the first six years of the selection, if the grant is not previously issued, is $1\frac{1}{4}$ per cent. of the capital value of the block. An appraisalment of the capital value of the land may be obtained

under certain conditions. Additional land may be acquired to make up an area which, with all other lands held by the applicant other than under annual tenure, would not be more than sufficient for the maintenance of the applicant's home in average seasons and circumstances. The additional holding need not adjoin the original holding, but must be situated within a reasonable working distance. Any person who is eligible to take up a conditional purchase may apply for a homestead selection. After the issue of the grant the rent is $2\frac{1}{2}$ per cent. on the improved capital value of the land, which is appraised every fifteen years. The only expenditure required in improvements is £20 for a dwelling-house within the first eighteen months, and the condition of residence is a perpetual obligation, but after issue of the grant, may be restricted to seven months in each year. The land may not be transferred during the first five years, and each successive transferee is required to live on the land while he holds it. Tenant-right in improvements is allowed, and the holding is so protected that it cannot, by any legal procedure, except by levy or sale for taxes, be taken from the owner while he resides on it. Under the Crown Lands (Amendment) Act, 1908, a homestead selection or grant may be converted into a conditional purchase lease, a conditional purchase, or a conditional purchase and conditional lease, provided the area contained in such lease does not exceed three times the area in the conditional purchase. Holders of conditional purchases may convert their holdings into homestead selections.

Working Men's Blocks.

This tenure has been created by the Blockholders' Act of 1901, under which workmen may secure a lease of a block, not exceeding 10 acres, for a period of ninety-nine years. An applicant must be not less than 18 years of age, and gain his livelihood by his own labour; and the rent is not more than 5 per cent. on the capital value of the land. The lessee and his family must reside on the land for at least nine months in every year, pay the rent annually, and all rates, taxes, and value of improvements, and must fence the land within two years. A blockholder may have his block protected from seizure for debt, except for rates and taxes.

Conditional Purchase Leases.

Areas set apart for disposal by way of conditional purchase lease are subdivided into such areas as the Minister for Lands may determine. The lease is for forty years, at a rental of $2\frac{1}{2}$ per cent. per annum on the capital value. The value of existing improvements is appraised by the Land Board, and special conditions may be imposed regarding improvements, cultivation, preservation, or planting of timber, etc.

Any male above the age of 18 years, and any female above 21 years, who is not disqualified under the provisions of the Land Act, may apply for a conditional purchase lease. A female applicant must be unmarried, or widowed, or living apart from her husband under a decree of judicial separation.

Residence on the lease must be continuous for ten years, and must commence within twelve months from the date of confirmation, but the commencement of residence may be postponed to any date within five years of confirmation. At any time after the confirmation of an application, the holder may convert the area into a conditional purchase by payment of a deposit of 5 per cent. on the capital value of the land, provided that the proper conditions have been observed, and subject to all the unperformed conditions of the lease, except payment of rent. The balance of purchase money is payable by equal annual instalments at the rate of 5 per cent. of the price, consisting of principal and interest at the rate of $2\frac{1}{2}$ per cent. on the unpaid

balance, the first instalment being due twelve months after the date of application for conversion. Under the "Crown Lands Act, 1908," land may be set apart for disposal as special conditional purchase lease, provided that for six months the land has been available for some class of residential holding. The areas must be not less than 20, nor more than 320 acres. There are no conditions of residence, but substantial improvements of value not less than 10s. per acre must be completed within three years. Any holder of a conditional purchase lease may acquire additional conditional purchase leases, but in no case may the total area of the lands held by him under any tenure, except annual, exceed a home maintenance area.

Conditional Leases.

A conditional lease may be obtained by any holder of a conditional purchase (other than non-residential), or a conditional purchase within a special area in the Eastern Division. Lands available for conditional purchase are also available for conditional lease, with the exception of lands in the Western Division, or within a special area or a reserve. Applications must be accompanied by a provisional rent of 2d. per acre and a survey fee. The area which an applicant may obtain as conditional purchases and conditional leases is restricted to 1,280 acres in the Eastern Division, and 2,560 acres in the Central Division; but the Land Board may specifically permit larger areas. The lease is for a period of forty years, at a rent determined by the Land Board, payable yearly in advance. The conditions of fencing, or substitution of improvements in lieu of fencing, which attach to a residential conditional purchase, apply equally to a conditional lease, and residence is required as in the case of an additional conditional purchase.

Settlement Leases.

Under this tenure, farms gazetted as available for settlement lease are obtainable on application, accompanied by a deposit consisting of six months' rent and the full amount of survey fee. The maximum area of agricultural land which may be taken up is 1,280 acres; but where the settler must combine agriculture with grazing, the farms may contain any area not exceeding 10,240 acres. These areas may, however, be exceeded by means of additional holdings, and the additional holding need not necessarily adjoin the original holding, but must be situated within a reasonable working distance thereof. The lease is issued for a term of forty years, divided into four periods. The annual rent for the first period is that notified before the land is made available for lease; but the lessee may require that the rent be determined by the Land Board, and the annual rent for each succeeding period may be separately determined in like manner. Residence is compulsory throughout the whole term; and the land must be fenced within the first five years, and noxious weeds and animals on the land destroyed within eleven years. The lessee may apply at any time after the first five years of the lease for an area not exceeding 1,280 acres, on which his house is situated, as a homestead grant. Under the Crown Lands Act, 1908, the holder of a settlement lease may convert such lease into a conditional purchase, or into a conditional purchase and conditional lease under certain provisions, but in no case may the unimproved value of the land to be converted exceed £3,000.

Improvement Leases.

Improvement leases may consist of any scrub or inferior land not suitable for settlement in the Eastern or Central Divisions, and are obtained only by auction or tender. The rent is payable annually, and the lease is for a period of twenty-eight years, with an area not exceeding 20,480 acres. Upon the expiration of the lease the last holder will have tenant-right in

improvements. During the last year of the lease the lessee may apply for a homestead grant of 640 acres, on which his dwelling-house is erected. Should the Advisory Board, constituted under the Closer Settlement Act, 1907, report that land comprised in an improvement lease or scrub lease is suitable for closer settlement, the Minister may require the surrender of the lease to the Crown, and the owner will be compensated.

Leases of Scrub and Inferior Lands.

Scrub leases may be obtained on application, or by auction or tender, but inferior-lands leases may be acquired by auction or tender only. There is no limitation as to area, and in the case of a lease obtained by application the rent is appraised by the Local Land Board. The initial rent of an inferior-lands lease prevails throughout the whole term; but the terms of a scrub lease may be divided into periods, the rent for each period being determined by reappraisal. The term of each class of lease may not exceed twenty-eight years. The holder of a scrub lease must take such steps as the Land Board may direct for the purpose of destroying the scrub, and keep the land clear afterwards. During the last year of any of the leases application may be made for a homestead grant of 640 acres.

Pastoral Leases.

Under the Crown Lands Amendment Act of 1903, the registered holder of any pastoral lease, preferential occupation license, or occupation license, may apply for a lease, for not more than twenty-eight years, of an area not exceeding one-third of the total area of the land comprised within the lease or license, subject to such rent, conditions of improvement, and withdrawal for settlement as may be determined.

Occupation Licenses.

There are two forms of occupation licenses, viz., preferential occupation licenses, consisting of the area within the expired pastoral leases, and ordinary occupation licenses, which relate to the parts of the holdings formerly known as resumed areas. Occupation licenses extend from January to December, but may be renewed annually at a rent determined by the Land Board.

Annual Leases.

Unoccupied lands not reserved from lease may be obtained for pastoral purposes as annual leases on application, or they may be offered by auction or tender. No conditions of residence or improvement are attached to annual leases, there is no security of tenure, and the land may be alienated by conditional purchase, auction sale, &c. The area is restricted to 1,920 acres in any one lease.

Special Leases.

Special leases are issued chiefly to meet cases where land is required for some industrial or business purpose, and may be obtained by auction or otherwise, and the term of the lease may not exceed twenty-eight years. The conditions attached are suitable to the circumstances of each case, and these, together with the rent, are determined by the Land Board. The Crown Land Act, 1908, provides under certain conditions for the conversion of special leases, and of church and school lands leases, into conditional purchase leases or additional conditional purchase leases; or conditional purchases or additional conditional purchases; or homestead selections or additional homestead selections; or settlement leases or additional settlement leases; or conditional leases.

Residential Leases.

The holder of a "miner's right" or "mineral license" within a gold or mineral field may obtain a residential lease. A provisional rent of 1s. per acre is charged, the maximum area is 20 acres, and the longest term of the lease twenty-eight years. The annual rent is appraised by the Land Board. The principal conditions of the lease are residence during its currency, and the erection within twelve months of necessary buildings and fences. Tenant-right in improvements is conferred upon the lessee. The holder of any residential lease may apply after the first five years of his lease to purchase the land.

Snow Leases.

Any vacant Crown lands which for a portion of each year are usually covered with snow, and thereby unfit for continuous use or occupation, may be leased as snow leases. Not more than two snow leases may be held by the same person. The minimum area is 1,280 acres, and the maximum 10,240 acres. The term of the lease is seven years, but may be extended for three years.

WESTERN DIVISION.

The administration of the Western Division under the "Western Lands Act of 1901" is vested in a Board of three Commissioners, entitled "The Western Land Board of New South Wales." The Commissioners, sitting in open Court, exercise all the powers conferred upon Local Land Boards by the Crown Lands Acts.

Subject to existing rights and the extension of tenure granted under certain conditions, all forms of alienation, other than by auction and leases, prescribed by the Crown Lands Act, ceased to operate within the Western Land Division from the 1st January, 1902.

Before any Crown lands become available for lease, the Commissioners must recommend the areas and boundaries and the rent to be charged, and, should there be any improvements on the land, determine the value. When such lands are declared open for lease, applications must be made to the Commissioners, who may recommend the applicant they consider most entitled to it.

The registered holder of a pastoral, homestead, improvement, scrub, or inferior lease or occupation license, of land in the Western Division, could apply before the 30th June, 1902, to bring his lease or license under the provisions of the "Western Lands Act of 1901." In cases where no application has been made, such lease or license is treated as if the Act had not been passed.

All leases issued or brought under the provisions of the "Western Lands Act of 1901" expire on the 30th June, 1943, except in cases where a withdrawal is made for the purpose of sale by auction or to provide small holdings, when, as compensation, the lease may be extended for a term not exceeding six years.

The rent on all leases current after the commencement of the Act is determined by the Commissioners for the unexpired portion. No rent or license fee may be less than 2s. 6d. per square mile or part thereof, and in no case may the rent or license fee be fixed at a higher rate than 7d. per sheep on the carrying capacity determined by the Commissioners.

LABOUR SETTLEMENTS.

Under the Labour Settlements Act, land may be set apart for lease for the purpose of labour settlements. A settlement is placed under the control of a Board, which enrolls such persons as it may approve; makes regulations concerning the work to be done; apportions the work among the members; and equitably distributes wages, profits, and emoluments after providing for the cost of the maintenance of the members. Any trade or industry may be established by the Board, and the profits apportioned among the enrolled members. The land is leased to the Board, in trust for the members of the settlement, for a period of twenty-eight years, with right of renewal for a like term.

When a Board has enrolled such a number of persons as the Minister for Lands may approve, it may apply for monetary assistance on behalf of the members of the settlement. The Minister may grant an amount not exceeding £25 for each enrolled member who is the head of a dependent family; £20 for each married person without a family; and £15 for each unmarried person. On the expiration of four years from the commencement of the lease, and at the end of each year following, 8 per cent. of the total sum paid to the Board becomes a charge on its revenue, until the total amount advanced, with interest at the rate of 4 per cent. per annum, has been repaid.

On the 30th June, 1910, the only settlements in existence were those at Bega and Wilberforce. At Bega an area of 1,360 acres is attached to the settlement, and on the date specified there were 25 men enrolled, and a total population of 145. A sum of £2,420 has been lent by the Government and the value of improvements, exclusive of crops, is £3,110. At Wilberforce, an area of 435 acres has been granted for settlement. On the 30th June, 1910, there were 10 men enrolled, the total population being 51; the loans from the Government amount to £2,480, and the value of improvements, exclusive of crops, is £1,280.

CLOSER SETTLEMENT.

Under the "Closer Settlement Act, 1901," provision was made for the acquisition of private lands, or of lands leased from the Crown, for the purposes of closer settlement. Lands so acquired may be divided into farms and leased for a term of ninety-nine years, at an annual rental not exceeding 5 per cent. of the capital value of the land. No power of compulsory resumption was conferred, and, consequently, the Act was practically inoperative.

Under the "Closer Settlement Act, 1904," which repealed the 1901 enactment, provision was made for compulsory resumption of private land, for purposes of closer settlement, where the value exceeds £20,000, exclusive of improvements. The owners of private lands may also offer to surrender the same in consideration of a price to be specifically set out, and such offer is binding on the part of the owner for a period of nine months.

The Closer Settlement Amendment Act, 1907, constituted three Advisory Boards. These Boards report whether any land of value not less than £10,000, exclusive of improvements, is suitable for closer settlement, and furnish such particulars as the Minister requires. The State may purchase the land by agreement with the owner; or acquire by resumption where the value, without improvements, exceeds £20,000. Within six months after the passing of an Act sanctioning the construction of a line of railway, the Governor may purchase or resume for purposes of closer settlement land, the property of one owner and exceeding £10,000 in value, on either side of the proposed railway.

Before the land acquired is available for settlement, a plan of the designed subdivision, showing areas and values per acre of the proposed settlement purchases, must be approved by the Minister. The design plan includes not only land acquired under the Act but also any adjacent Crown lands set apart for the purpose. Settlement areas are notified for disposal in three classes, viz., agricultural lands, grazing lands, and township settlement allotments.

An amendment, passed in 1909, provides that at any time after a proclamation of intended acquisition of an estate, if an agreement be made that the land shall be subdivided for closer settlement by the owner, the power of resumption may be suspended for a term not exceeding two years. Any sale or lease made under such agreement must be submitted to the Minister, and if it be found that the owner has failed to fulfil the conditions the suspension of the power of resumption shall cease.

Any male above the age of 18 years, and any female over 21 years, who is not the holder, except under annual tenure, of land which, with the area sought, will substantially exceed a home maintenance area may apply for land under the Act; but if any person divests himself of land, in order to apply for a settlement purchase, his application will be disallowed. A female applying must be unmarried or widowed; or, if married, be living apart from her husband under an order of judicial separation.

Applications are lodged with the Crown Lands Agent, accompanied by a deposit of 5 per cent. of the notified capital value of the settlement purchase sought. The purchase money, including interest at 4 per cent., is paid in thirty-eight annual instalments at the rate of 5 per cent. of the capital value of the land.

Residence for a period of ten years is required, and commences at any time within twelve months after the decision of the Land Board allowing the purchase; but the term may be extended to any date within five years of the allowance of purchase; and on such terms and conditions, as to improvements and cultivation, as may be arranged between the applicant and the Land Board. Residence implies continuous and *bona-fide* living upon the area allotted. Subject to the approval of the Land Board, the condition as to residence may be observed in any adjacent town or village; and, by permission, may be suspended.

Where the land is unimproved, the purchaser is required to effect substantial and permanent improvements to the value of 10 per cent. of the capital value within two years from the date of application, with an additional 5 per cent. within five years, and a further 10 per cent. within ten years from the same date. Existing improvements on the land are regarded as the equivalent of this condition. Every purchaser is subject to conditions as to mining, cultivation, destruction of vermin and noxious weeds, etc.

The land may be leased in areas not exceeding 320 acres. Leases so granted are subject to the following conditions:—Improvements are not to be effected without the written consent of the Minister or Chairman of the Land Board; leases expire on the 31st December, but may be renewed on payment of yearly rent in advance not later than 10th December; the rent is to be appraised by the Land Board, and the granting of a lease does not exempt the land from settlement purchase; the Minister may at any time cancel the lease after three months' notice.

The three Advisory Boards constituted under the Closer Settlement Act have inspected and reported upon many estates well suited for closer settlement. During the year ended 30th June, 1910, seven estates were acquired,

and proclamations of intended acquisition of fifteen estates, covering an area of 358,765 acres, were gazetted. The following table contains information regarding areas administered under the Acts as at 30th June, 1910:—

Name of Settlement Purchase Area.	Lands comprised in Settlement Areas.			Price paid for Acquired land.	
	Acquired land.	Adjoining Crown land.	Total.	Total.	Per Acre.
	acres.	acres.	acres.	£	£ s. d.
Myall Creek, Inverell	53,929	19,374	73,303	138,866	2 11 6
Gobbagombalin, Wagga	61,866	4,623	66,489	207,560	3 7 1
Marrar, Wagga	26,607	781	27,388	68,777	2 11 8
Walla Walla, Albury	50,137	1,580	51,717	250,687	5 0 0
Sunny Ridge, Cowra	12,015	416	12,431	49,038	4 1 8
Boree Creek, Urana	17,000	242	17,242	61,625	3 12 3
Peel River, Tamworth	99,619	114	99,733	405,416	4 1 5
Mungery, Parkes	55,159	47,371	102,530	115,878	2 2 0
Coreen and Back Paddock, Corowa	37,779	1,492	39,271	140,000	3 14 1
Brookong, Urana	11,996	156	12,152	42,170	3 10 4
Piallaway and Walhallow, Tamworth	12,396	348	12,744	61,980	5 0 0
Everton, Dubbo	6,476	6,049	12,525	19,426	3 0 0
Pine Ridge, Mudgee	7,845	197	8,042	28,790	3 13 5
Richlands, Goulburn	8,709	302	9,011	34,885	4 0 1
Larras Lake, Molong	11,565	.....	11,565	58,380	4 13 1
Crowther, Young	10,520	.....	10,520	49,474	4 15 0
North Logan, Cowra	11,434	.....	11,434	*50,262	{ 4 6 6 5 0 0
Total	495,052	83,045	578,097	1,783,214	3 12 1

* 10,234 acres at £4 6s. 6d., and 1,200 acres at £5 per acre.

At the 30th June, 1910, 20,362 acres had been reserved, and 524,216 acres had been divided into farms. The remaining area, 33,519 acres, was comprised in three estates which had not been made available. The particulars of the subdivisions are shown in the following statement:—

Name of Settlement Purchase area	No. of Farms.	Capital value of areas contained in farms.			Farms made available to 30th June, 1910.	Farms Selected to 30th June, 1910.	Area Selected.	Capital value of Farms Selected.
		Acquired Lands.	Crown Lands.	Total.				
		£	£	£		Acres.	£	
Myall Creek	134	187,746	24,672	162,418	134	134	162,418	
Gobbagombalin	141	225,626	10,541	233,167	141	141	236,167	
Marrar	46	75,134	2,010	77,174	46	46	77,174	
Walla Walla	122	255,013	3,845	258,858	121	121	257,788	
Sunny Ridge	24	50,292	1,236	51,528	24	22	47,234	
Boree Creek	30	68,737	589	69,273	30	27	62,343	
Peel River	271	438,301	125	438,427	269	269	434,318	
Mungery	64	117,523	88,538	206,061	62	56	178,360	
Coreen Creek & Back Paddock	63	149,913	3,823	153,741	63	63	153,741	
Brookong	20	43,170	321	43,491	20	17	38,975	
Piallaway and Walhallow	38	63,489	1,370	64,859	37	37	63,159	
Everton	18	19,891	11,371	31,462	18	18	31,462	
Pine Ridge	16	29,557	624	30,181	16	16	30,181	
Richlands	37	36,032	932	36,964	37	37	36,964	
Larras Lake	30							
Crowther	20							
North Logan	34							
		Not available at 30th June, 1910.						
Totals	1,108	1,710,426	147,978	1,858,401	1,013	1,004	1,808,234	

The average cost to the settler per acre was £3 10s. 11d., and per farm, £1,815. The farms which have not yet been selected are let under permissive occupancy, and remain available for settlement purchase application. The

following statement shows the resumed estates in course of subdivision and those proclaimed, but not authorised, for resumption purposes:—

In course of Subdivision.		Proclaimed for Resumption.	
Name.	Area.	Name.	Area.
	Acres.		Acres.
Hardwicke, Yass	6,129	Gunnible, Gunnedah	31,257
Nangus, Gundagai	7,455	Colly Creek, Quirindi	36,386
Tuppal, Finley	49,161	Bangheet and Gineroi, Bingara	37,838
Cole Park and Malton, Goulburn	3,188	Bengalla, Muswellbrook	12,000
Gunningbland, Parkes	12,404	Gundry Plains, Goulburn	12,737
Tibbereenh, Narrabri	12,307		
Wandary, Forbes... ..	8,959		
Warrah, Quirindi	45,000		
Maharatta, Bombala	20,107		
Bibbenluke, Bombala	16,210		
Total	180,920	Total	130,218

The power of resumption, in the case of Gunnible and Colly Creek, has been suspended for two years under the Closer Settlement (Amendment) Act of 1909.

In January, 1911, the three Advisory Boards were replaced by one central board which will deal with the closer settlement lands for the whole State.

The Closer Settlement Promotion Act of 1910 provides that three or more persons qualified to hold settlement purchases, upon entering into an agreement with the owner, may apply to have any private lands brought under the Act. Upon the approval by the Minister the vendor may surrender the land to the Crown, and the purchaser may acquire it as a settlement purchase and obtain an advance, secured by mortgage on the land, from the Commissioners of the Government Savings Bank. The Commissioners may advance the whole or any part of the purchase money up to a maximum of £2,500; the total advances by the Bank under this Act in any financial year must not exceed £1,000,000.

In addition to the land acquired by the State for closer settlement a number of estates have been subdivided for that purpose by private owners. The particulars of 182 estates, covering an area of 2,227,435 acres, have been taken from reports of the various district surveyors, and are shown in the following table:—

Land Board District.	Estates.		Area Sold.	Average price per acre.	Approximate number of individual purchasers.
	No.	Area.			
Armidale	18	acres. 234,410	acres. 174,689	£ s. d. 4 4 2	280
Dubbo	5	85,328	44,471	4 0 2	42
Forbes	8	106,575	55,144	3 18 3	44
Goulburn	20	219,675	173,638	3 19 3	215
Grafton	9	143,893	116,961	6 1 0	336
Hay	5	209,831	116,662	2 16 6	31
Kempsey	3	7,343	1,521	6 4 11	3
Maitland	35	377,007	265,082	12 8 7	358
Moree	5	40,968	32,617	2 19 4	28
Orange	21	130,945	97,505	6 14 1	191
Tamworth	14	221,024	192,033	5 2 10	218
Wagga Wagga	39	450,436	267,226	4 7 2	340
Total	182	2,227,435	1,537,549	5 17 10	2,086

PROGRESS OF ALIENATION.

The figures relating to land alienation under the legislation of 1861, and to its subsequent amendments, show that up to the 30th June, 1910, there were 14,897,415 acres sold by auction and other forms of sale.

As regards conditional purchases, the following applications have been made under the various Acts :—

	Applications.	
	No.	acres.
Under the Crown Lands Act of 1861—		
To May 24, 1880	136,389	14,982,120
Under the Crown Lands Act of 1880	55,084	8,488,020
Total to December 31, 1884	191,473	23,470,140
Under the Crown Lands Acts of 1884, 1889, 1895, and amending Acts	91,439	16,623,618
Grand total to 30th June, 1909	282,912	40,093,758

The number of selections—viz., 282,912, containing 40,093,758 acres—has been reduced by forfeitures, cancellations, conversions into homestead selections, &c., and has been increased by conversions from other tenures under the Act of 1908, so that the land wholly alienated, or in process of alienation by conditional purchase, on the 30th June, 1910, amounted to 28,290,516 acres contained in 199,825 purchases. Deeds have now been issued upon 106,258 completed purchases, covering 13,928,053 acres; so that the number of purchases still in force, but upon which the conditions have not been fulfilled, is 93,567, covering an area of 14,362,463 acres.

Under the Crown Lands Act of 1895, 9,059 applications for homestead selections were received to the 30th June, 1910, the aggregate area of such being 3,582,134 acres. Of the applications lodged, 7,059, amounting to 2,555,805 acres, were confirmed. Homestead grants to the number of 4,028, with an area of 1,628,176 acres, were issued to the 30th June, 1910. The area held under homestead selection on the 30th June, 1910, exclusive of homestead grants issued, was 622,903 acres.

The total area alienated by volunteer land orders to 30th June, 1910, amounted to 170,114 acres. Only a few orders are now outstanding, and doubtless these will be used soon, as no person has a right to a free grant of land in virtue of a volunteer land order unless application be made within three years from the commencement of the Crown Lands Act, 1908.

From 1862 to the 30th June, 1910, the Crown has dedicated 228,712 acres for public and religious purposes. During the last year there were 437 acres so alienated.

The following statement shows the applications made and confirmed during the year 1909–10 under the provisions of the Crown Lands Amendment Act of 1908 for the conversion of certain tenures as detailed in the preceding pages :—

Class of Holding.	Conversions during 1909–10.			
	Applications.		Confirmations.	
	No.	Area.	No.	Area.
		acres.		acres.
Conditional Leases	1,610	640,019	1,471	575,785
Conditional Purchase Leases	22	8,357	17	6,823
Homestead Selections or Grants	220	84,335	178	62,979
Settlement Leases	75	171,998	30	64,934
Non-residential Conditional Purchases	10	1,318	9	778
Special Leases	322	47,272	178	30,217
Church and School Lands Leases	12	6,406	9	3,777
Total	2,271	959,705	1,892	745,293

Of the total applications, 2,137, covering 895,964 acres under other tenures, were made for the conversion into conditional purchases; 1,840 such applications, for a total area of 706,381 acres, were confirmed during the year.

The operations of the various Orders, Regulations, and Acts of Council and of Parliament for the disposal of the public lands, since the foundation of the State, have produced the following results:—

Area granted and sold by private tender and public auction at prices ranging from 5s. to 20s. per acre, prior to the year 1862	acres. 7,146,579
Area sold by auction and other forms of sale, 1862 to 30th June, 1910, inclusive	14,897,415
Area sold under system of conditional purchase for which deeds issued, 1862 to 30th June, 1910, inclusive	13,928,053
Area granted under Volunteer Land Regulations of 1867 to 30th June, 1910	170,114
Area dedicated for public and religious purposes, less resumptions, 1862 to 30th June, 1910	228,712
Homestead grants issued to 30th June, 1910	1,628,176
Total area alienated to 30th June, 1910	37,999,049
Area in process of alienation under system of conditional purchase standing good on 30th June, 1910	14,362,463
Area in process of alienation under system of homestead selection, including conditional purchases and conditional leases converted, exclusive of grants issued	622,908
Area alienated and in process of alienation on 30th June, 1910, exclusive of lands dealt with under Closer Settlement Act	52,984,415
Area acquired for closer settlement to 30th June, 1910	495,052
	52,489,363
Acquired and Crown lands disposed of under Closer Settlement Act to 30th June, 1910	475,553
Total area alienated, and in process of alienation on 30th June, 1910	52,964,916

It has been found impracticable to separate the area alienated by grant from that sold by private tender, as the records of early years are incomplete upon this point.

The following statement shows the amount paid for lands purchased from the State from the year 1821 to the end of June, 1910:—

Period.	Amount received.
	£
1821-1861	3,785,002
1862-1871	2,359,548
1872-1881	17,015,358
1882-1891	13,917,457
1892-1901*	11,995,452
1902-1906*	4,027,877
1907-1910*	3,862,326
Total received... ..	56,963,020
Less refunds	1,660,914
Net amount received	£ 55,302,106

* To 30th June.

This sum includes £33,258,605 paid on account of conditional purchases. The amount outstanding on conditional purchases at the 31st December, 1909, was £8,649,309, making a total amount paid and owing on all lands sold £63,942,415.

The area leased to pastoral tenants and others at the end of June, 1910, amounted to 127,975,308 acres (including leases to miners under the Mining Act), and was subdivided as follows:—

Type of Lease.	acres.
Pastoral	1,137,095
To outgoing Pastoral Lessees	1,136,141
Occupation Licenses	9,994,307
Conditional	16,322,965
Conditional Purchase	669,795
Homestead	636,440
Annual	5,405,694
Settlement	7,569,925
Improvement	6,884,330
Scrub	2,234,314
Snow Land	71,730
Special	496,759
Inferior Land	106,562
Artesian Well	92,160
Western Lands	73,912,534
Under the Mining Act	219,525
Other	1,085,032
Total	127,975,308

The total available area of the State is 198,634,880 acres, and deducting the area sold and otherwise alienated, 52,964,916 acres, and the area leased, 127,975,308 acres, making a total of 180,940,224 acres, there remained a balance of 17,694,656 acres, representing the area of country neither alienated nor leased, including roads, unoccupied reserves, land unsuitable for settlement, and water.

AREA AVAILABLE FOR SETTLEMENT.

In 1895 attention was directed to the question of land legislation, as it was contended that the Lands Acts of 1884 and 1889 had failed to prevent the accumulation of extensive landed estates in the hands of a very limited number of proprietors.

Although it may be said, in defence of the policy pursued by this class of landowners, that in many cases it was forced upon them by the defective nature of legislation which failed to discriminate between the very different interests of the pastoralists and of the agricultural settlers, it must nevertheless have been patent to everybody that these immense alienations of the public estate were not conducive to healthy settlement. The Acts mentioned have, however, been superseded by the Crown Lands Act of 1895. Many radical changes in land legislation have been effected by this Act; but immediate remedial action can be taken only in connection with Crown lands which have not been alienated or leased to Crown tenants for a definite period of years. Leases granted under certain conditions, such as those attached to conditional leases, which carry with them the right of purchase at any time during their currency, may be considered as a form of alienation, because only a comparatively small portion of these areas is ever likely to return to the public estate. Lands under homestead leases in the Western Division not brought under the Western Lands Act, scrub lands, snow-covered areas, inferior lands, settlement leases, improvement leases, leases to outgoing pastoral lessees, leases for long periods of fixed tenure, and under the Western Lands

Act for long terms, form another category of lands concerning which past legislation prevents immediate action.

The lands which can be affected beneficially by the Act of 1895 are, therefore, limited to the area which is unalienated, or for which contracts have not been made, further reduced by reserves for public purposes, for gold-fields and other forms of mining enterprise, and for railway and other purposes. At the end of June, 1910, there were, 37,999,049 acres absolutely alienated; 14,362,463 acres conditionally sold, the conditions of purchase not being complete; 622,903 acres alienated, and in process of alienation, under the system of homestead selection, subject to the payment of rent in perpetuity; and 25,098,019 acres leased with the right to convert into freehold. These areas amounted to 78,082,434 acres; but taking into consideration the lands dealt with under the Closer Settlement Acts—495,052 acres acquired and 475,553 acres disposed of—there are 78,062,935 acres which have been placed practically beyond the scope of present or of future legislation.

The following statement shows the tenure under which the 25,098,019 acres leased with right to convert into freehold, under the Crown Lands (Amendment) Act of 1908, are held:—

	acres.
Conditional Leases	16,322,965
Conditional Purchase Leases	669,795
Settlement Leases	7,569,925
Special Leases	496,759
Residential Leases	13,387
Church and School Land Leases	25,188
Total	25,098,019

The areas under long contracts of lease, in some cases with right of renewal, which no legislation can affect until the expiration of the fixed period of the tenure, are given below:—

	acres.
Pastoral Leases, Western Division	1,137,095
Leases to Outgoing Pastoral Lessees	1,136,141
Homestead Leases	636,440
Scrub Leases	2,234,314
Artesian Well Leases	92,160
Snow-land Leases	71,730
Leases of inferior lands... ..	106,562
Improvement Leases	6,884,330
Leases under Western Lands Act	62,575,348
Other Leases	286,315
Total	75,160,435

Adding together 78,062,935 acres practically outside State control, and 75,160,435 acres of leased land, a total of 153,223,370 acres is obtained as affected by long contracts, and these figures show how greatly the extent of territory available for settlement has diminished. Of the balance, amounting to 45,411,510 acres, after allowance has been made for useless land, it will be found that at 30th June, 1910, the State probably had about 38,000,000 acres available for occupation under various tenures. There is, however, a difficulty attending any calculation of the area included in land under long leases, which might be made available for settlement. This is apparent when the conditions under which the leases are now held are taken into consideration. Except where right to renewal on expiration of the lease exists, certain areas are continually reverting to the Crown by fluxion of time, and again in respect of certain leases provisions have been made whereby the Minister may at his discretion withdraw a part, and in some cases the whole of a leased area for the purposes of settlement.

The progress of alienation and of conditional settlement by purchase and lease at various periods from 1861 to 1901, and annually since the last-mentioned year, is shown in the following table :—

At end of year.	Area Alienated for which deeds have issued.	Area Conditionally Purchased, standing good at end of year.	Area Conditionally Leased at end of year.	Area under Homestead Selection, exclusive of Homestead Grants.	Area under Homestead Grant.
	acres.	acres.	acres.	acres.	acres.
1861	7,146,579	.....	.....	.....	.....
1871	8,630,604	2,280,000	.....	.....	.....
1881	22,406,746	12,886,879	.....	.....	.....
1891	23,775,410	19,793,321	11,234,131	.....	.....
1901	26,408,169	20,044,703	13,980,942	1,491,073	35,385
1902	27,464,199	19,369,027	14,339,481	1,479,751	194,702
1903	28,292,915	18,823,660	14,750,348	1,262,774	472,175
1904	29,968,317	18,100,517	14,252,412	1,195,970	662,833
1905*	30,721,430	17,672,150	14,064,451	1,125,271	808,672
1906†	32,486,086	16,499,823	15,807,249	934,426	1,087,065
1907†	33,921,508	15,691,906	15,383,502	873,319	1,247,919
1908†	35,467,021	14,868,166	16,667,124	771,561	1,385,415
1909†	36,783,741	14,475,553	16,830,954	742,338	1,501,738
1910†	37,999,049	14,362,463	16,992,760	622,903	1,628,176

* Half-year ended 30th June. † Year ended 30th June.

As already stated, the land held under conditional lease is virtually alienated, since the holder has the right of converting his lease into a freehold at any time during its currency.

Since the change of Government, as the result of the general elections in October, 1910, the State land policy has been revised, and the present Minister for Lands has decided that Crown lands are to be offered as original holdings under the homestead selection and settlement lease provisions only. No country lands are to be offered at auction sale except remnant areas.

EFFECTS OF LAND LEGISLATION.

When the agitation was in progress, which culminated in the framing of the Crown Lands Act of 1861, it was contended that the Orders-in-Council then in force favoured the occupation of the country lands by the wealthier classes; and the principles of free selection before survey and of deferred payments were introduced in the new legislation, with the object of facilitating the settlement of an agricultural population side by side with the great pastoral tenants of the Crown. The statistical records for the year 1861 show that at the close of that year, and just before the new legislation had come into force, there were 21,175 holders of rural lands, of whom 17,654 were in the old settled districts, in twenty counties, grouped around three principal centres—the metropolis and the county of Cumberland, the Hunter River Valley, and that portion of the central tableland of which Goulburn, Bathurst, and Mudgee were the first towns; while the remaining 3,521 settlers were scattered over the pastoral districts. The figures showing the area held by these settlers do not discriminate between the land alienated and that occupied under lease from the Crown; but they show that in the old settled districts there were 254,347 acres under cultivation—or an average of 14 acres per holding—and 8,522,420 acres used for stock; whilst in the pastoral districts 43,228 acres were cultivated, and 54,716,463 acres were occupied for grazing; so that, at that time, 63,536,458 acres, representing about one-third of the territory of the State, were in the occupation of the settlers.

In addition to the clauses inserted in the Act of 1861, in the interests of men of small means, certain provisions are retained which secured the accrued interests of the pastoralists under former legislation, of which they availed themselves to the utmost. By means of auction sales of country lands at the upset price of 20s. per acre, of unconditional selections of lots not sold at auction, of purchases made in virtue of improvements, and of the right of pre-emption to certain lands under the old Acts of Council, the accumulation of immense estates was greatly facilitated. The sales of lands subject to conditions of residence and improvements, though ostensibly made to foster the settlement of a numerous class of small farmers, were also utilised in the interests of station owners, to whom the purchases were transferred in great numbers immediately upon completion of the conditions of residence and improvements required under the Act.

The evils resulting from the antagonistic interests of these two classes of settlers were partly checked by the amended law of 1884, which stopped the wholesale alienation of land by auction, unconditional selection after auction, and sales in respect of pre-emptive rights. The clause relating to improvement purchases was also modified, and made applicable only to small areas in gold-fields which might be purchased by resident miners in view of certain improvements; and the area to be offered at auction sales was restricted to a maximum of 200,000 acres yearly; but conditional settlement was favoured by largely increasing the maximum area allowable to free selectors; by raising the term of residence from three to five years; and by means of more stringent conditions as to fencing and improvements.

This policy, however, did not fulfil the expectation of the legislators, as the figures relating to transfers of conditional purchases show that, when other means of increasing the area of individual estates failed, the traffic in transfers of conditionally purchased lands, with increased areas, supplied the deficiency. The radical change introduced by the Land Act of 1895, necessitating continuous residence for a period of ten years in respect of original conditional purchases, and a further term of not less than five years in connection with additional purchases, had the effect of considerably reducing the number of applications lodged, but during the last ten years the number has steadily increased. In addition to the applications for the year 1910, as shown below, there were 2,177 applications, covering an area of about 865,000 acres, for conversion into conditional purchase from other forms of tenure; the apparent decrease for the year is due to this cause. The following table shows the transactions under each class of conditional purchase during the last ten years:—

Year.	Original Conditional Purchases.		Additional Conditional Purchases.		Non-residential Conditional Purchases.		Conditional Purchase Leases—application to convert into C.P. received.		Total.	
	No.	Area.	No.	Area.	No.	Area.	No.	Area.	No.	Area.
1901	1,036	145,990	1,216	401,625	25	2,283	...	...	2,277	549,898
1902	1,048	128,649	1,231	267,006	61	5,055	...	...	2,340	400,710
1903	980	117,538	1,073	209,122	60	6,237	...	...	2,113	332,897
1904	1,132	161,127	1,760	363,491	30	3,484	...	...	2,922	528,102
1905*	657	99,601	776	143,936	23	1,931	...	...	1,456	245,468
1906†	1,438	212,744	1,647	280,386	38	3,651	...	...	3,123	496,781
1907†	1,535	200,852	2,122	476,345	52	5,956	14	2,642	3,723	685,795
1908†	1,618	229,044	2,108	486,491	113	16,370	11	2,220	3,850	734,125
1909†	1,641	285,616	2,767	797,666	121	18,791	12	3,234	4,541	1,105,307
1910†	1,206	184,097	1,001	150,074	57	8,196	17	6,823	2,281	349,190

* Half-year ended 30th June.

† Year ended 30th June.

The experience of the past ten years indicates that the new features introduced by the Land Act of 1895 are much appreciated by those desirous of acquiring a holding for themselves, although the residence involved is continuous and for a lengthy period. The following table indicates the operations in respect of homestead selections and settlement leases since 1900 :—

Year.	Homestead Selections.		Settlement Leases.	
	No.	Area.	No.	Area.
		acres.		acres.
1900	609	260,568	189	480,846
1901	524	203,309	289	866,151
1902	387	145,836	109	371,726
1903	240	96,715	105	352,707
1904	1,040	618,675	494	1,214,993
1905*	263	104,860	148	412,245
1906†	383	158,739	271	967,838
1907†	291	89,426	215	680,187
1908†	408	103,412	170	613,934
1909†	445	137,292	278	823,208
1910	268	79,787	207	525,807

* Half-year ended 30th June.

† Year ended 30th June.

The principal element which contributed to the aggregation of great landed estates was that of auction sales of country lands, which were measured in vast areas upon the application of the run-holders, who bought them up generally at the upset price—at first a minimum of £1 per acre, raised in 1878 to £1 5s. per acre.

Particulars of the auction sales of country lands from the year 1862 to the 30th June, 1910, inclusive, are given hereunder :—

Year.	Lots.	Total Area.	Amount realised.	Average Price per Acre.
	No.	acres.	£	£ s. d.
1862-1872	9,228	582,479	616,399	1 1 2
1873-1883	43,465	7,963,093	8,640,098	1 1 8
1884-1894	8,631	645,770	1,222,271	1 17 10
1895-1904	5,553	397,386	675,178	1 14 0
1905*	269	20,152	28,829	1 8 7
1906†	496	18,119	32,877	1 16 3
1907†	484	20,094	32,009	1 11 10
1908†	416	9,000	19,368	2 3 0
1909†	527	8,045	20,018	2 9 9
1910†	480	4,574	22,595	4 18 9
Total ...	69,549	9,668,712	11,309,642	1 3 4

* Half year ended 30th June.

† Year ended 30th June.

These figures show that the struggle between selector and squatter did not begin in earnest until about the year 1873, when the effects of the legislation of 1861 were felt in an acute form; but during the ten years that followed this process of defence was applied in a wholesale manner by the pastoral tenants to save their possessions from encroachment through the operations of the selectors. The system was modified by the legislation of 1884, the object of auction sales of country lands now being to obtain revenue by the sale of select parcels of land at a higher average price, and in much smaller average areas. Since the year mentioned, this system of alienation has ceased to be of use in consolidating large pastoral estates.

Among other means offered for the unconditional purchase of Crown lands, that of indiscriminate selection at the upset price of lots not sold at auction also disappeared with the passing of the Act of 1884. During the period 1862 to 1883 when this system of purchase, was in operation, 15,750 lots of a total area of 1,716,976 acres were selected.

The Crown Lands Act of 1861, in exempting from sale certain leased lands, provided that a lessee should be permitted to exercise a pre-emptive right of purchase over one portion of 640 acres out of each block of 25 square miles.

The lands claimed in virtue of pre-emptive right, a form of alienation which was also abolished by the Crown Lands Act of 1884, added 2,114 lots, representing 560,825 acres, to the areas bought in the interests of the pastoralists.

The consolidation of pastoral estates did not suffer a serious check when the clauses of the Act of 1861, above cited, ceased to operate, as the transfer of conditional purchases supplied fresh means by the gradual absorption of a very large number of selections, principally in the Central and Western Divisions. Some of these transfers were made by way of mortgage, and therefore it is not possible to ascertain the area absolutely transferred by the original selectors; but the fact that 21,791,982 acres out of the total area alienated should be contained in 711 holdings, giving to each one an average domain of 30,650 acres, is certainly not conducive to healthy settlement. The number of holdings, however, does not represent the number of owners interested, as, in some cases, these large estates are held in partnership by three or four persons, or by companies and financial corporations.

RURAL SETTLEMENT.

EXCLUDING from consideration land held simply under lease from the Crown, there were in the State of New South Wales at the end of March, 1910, 85,178 holdings of 1 acre and upwards in extent. These holdings consist of land acquired from the Crown by grant or purchase, to which in some cases areas of Crown lands are attached.

The number of holdings, as returned by occupiers, and the alienated area in quinquennial periods since 1880, also during each of the last five years, are given below :—

Year ended 31st March.	Alienated Holdings.		Year ended 31st March.	Alienated Holdings.	
	No.	Area.		No.	Area.
		acres.			acres.
1880	39,918	22,721,603	1906	77,136	48,728,542
1885	43,079	32,843,317	1907	79,026	49,415,883
1890	47,620	37,497,889	1908	81,732	49,901,837
1895	59,020	41,736,073	1909	83,045	50,509,842
1900	68,098	45,086,209	1910	85,178	51,256,563
1905	75,672	48,081,314			

In 1890 the number of holdings was 47,620, and in 1900 it had advanced to 68,098, representing an increase of 43 per cent.; during the succeeding ten years the increase was 25·1 per cent., and over the twenty-year period there was an increase of 78·9 per cent. The area of the holdings advanced during the twenty years from 37,497,889 acres to 51,256,563, or by 36·7 per cent.

Thus the number of holdings increased at a faster rate than the area alienated in the proportion of 178·9 to 136·7, and, of course, conversely, the average size of holding decreased in the proportion of 136·7 to 178·9 or in concrete figures as shown in the following table from 787 acres in 1890 to 602 in 1910.

The average area of alienated holdings gradually rose to a maximum of 795 acres in 1889; but since that year there has been a continuous fall in the average to 602 acres in 1910. The following table shows the average size of holdings at intervals since 1880 :—

Year ended 31st March.	Average size of Holding.	Year ended 31st March.	Average size of Holding.
	acres.		acres.
1880	569	1904	611
1885	762	1905	635
1890	787	1906	632
1895	707	1907	625
1900	662	1908	611
1901	663	1909	608
1902	658	1910	602
1903	654		

In reference to the area of alienated holdings and the average size, the figures shown above are exclusive of lands leased from the Crown, which

are held in conjunction with alienated areas. The extent of Crown land so held in March, 1910, was 96,560,507 acres, attached to 17,054 holdings, and used generally for pastoral purposes.

To present a comprehensive view of the extent to which the land area of New South Wales is being brought into use, the following figures have been prepared, which show the area of land occupied and the extent of cultivation for each Division of the State :—

Division.	Total Land Area in Division.	Area Alienated.	Crown Land Attached to Alienated Holdings.	Total Area Occupied.	Area used for—	
					Cultivation.	Grazing, &c.
	acres.	acres.	acres.	acres.	acres.	acres.
Coastal	22,355,401	8,190,812	4,355,120	12,545,932	315,621	12,230,311
Tableland	25,831,246	10,261,526	9,229,476	19,491,002	383,891	19,107,111
Western Slopes	24,251,881	12,007,514	6,832,257	18,839,771	1,361,727	17,478,044
Western Plains	26,060,781	6,593,452	11,431,395	18,024,847	227,789	17,797,058
Riverina	19,767,073	12,553,325	4,619,028	17,172,353	768,697	16,403,656
Western	80,368,498	1,649,934	60,093,231	61,743,165	12,928	61,730,237
The State	198,634,880	51,256,563	96,560,507	147,817,070	3,070,653	144,746,417

The proportions of the several great Divisions of the State which have been wholly alienated are shown in the following rates derived from the figures expressed in the above areas :—

Division.	Alienated Land per cent. of Total Area.
Coastal	36·6
Tableland	39·7
Western Slopes	49·5
Western Plains	25·3
Riverina	63·5
Western	2·0
Whole of State	25·8

These figures show that practically one-quarter of the total area of the State has been alienated. The highest proportion of alienation, 63·5 per cent. of the area of the Division, has taken place in the Riverina; and the lowest, 2 per cent., in the Western Division.

In addition to the area shown above as used for cultivation, there were 104,211 acres under crop on holdings consisting of Crown lands only, so that the proportion cultivated was 1·6 per cent. of the total area of the State.

The subjoined table shows the number of alienated holdings at quinquennial intervals since the year ended 31st March, 1895. The available figures, showing the holdings so classified for earlier years are not comparable, as it has been found that during the period 1880 to 1894, certain Crown lands were returned by the occupiers as alienated lands. In the classification of holdings according to size, as shown in tables throughout this chapter, the

area of Crown land attached to alienated holdings has not been taken into consideration; and the size of a holding, therefore, represents the extent of alienated land alone which it contains.

Size of Holdings.		1895.	1900.	1905.	1910.
acres.		No.	No.	No.	No.
1 to	50	21,587	27,356	31,734	36,288
51 "	100	7,977	8,935	9,108	9,173
101 "	500	18,593	20,160	21,989	24,672
501 "	1,000	5,719	6,063	6,607	7,632
1,001 "	1,500	1,596	1,835	2,234	2,752
1,501 "	3,000	1,701	1,801	1,910	2,327
3,001 "	5,000	685	687	784	912
5,001 "	10,000	506	567	584	711
10,001 and over	... ..	656	694	722	711
Total		59,020	68,098	75,672	85,178

The holdings in the first area-group are, for the greater part, in the vicinity of towns, and, apart from those used for residential purposes only, consist mainly of gardens or orchards, and the large increase in their number is naturally to be expected from the growing demand for market-garden produce by a large urban population. It is in the holdings of moderate size (from 51 to 1,500 acres) that a greater rate of increase is desirable. In 1895, the holdings having an area of 51 to 1,500 acres numbered 33,885, while in 1910 they numbered 44,229, showing an advance of 30 per cent., which is slightly lower than the rate of increase in the holdings of 1,501 acres and upwards, which numbered 3,548 in 1895 and 4,661 in 1910.

The area of the alienated holdings, as returned by occupiers, in quinquennial periods since 1895 is given below:—

Size of Holdings.		1895.	1900.	1905.	1910.
acres.		acres.	acres.	acres.	acres.
1 to	50	395,209	462,212	486,203	501,589
51 "	100	635,160	708,394	720,243	724,909
101 "	500	4,594,270	4,953,889	5,423,153	6,175,692
501 "	1,000	3,965,071	4,222,946	4,622,272	5,331,666
1,001 "	1,500	1,990,433	2,280,673	2,744,051	3,378,235
1,501 "	3,000	3,611,487	3,822,440	4,030,908	4,932,698
3,001 "	5,000	2,654,673	2,667,894	3,047,469	3,490,908
5,000 "	10,000	3,578,787	3,988,538	4,171,754	4,928,884
10,001 and over	... ..	20,310,983	21,979,223	22,830,261	21,791,982
Total		41,736,073	45,086,209	48,081,314	51,256,563

PROGRESS OF CLOSER SETTLEMENT.

In discussing Land Legislation and Settlement elsewhere in this volume, an account is given of the progress of the Closer Settlement movement, which was inaugurated with the Act of 1904 and further evolved in subsequent Acts. Below are given figures which indicate to some extent the effect of the operation of the Acts upon the holdings of the State. In dealing with this subject it is necessary to determine the maximum area which should be allowed for Closer Settlement purposes, or, in other words, the area which, on the average, is essential to make a living. There are many standards by which such area may be determined, and for the purposes of this chapter the standard taken is that practically set up by the settlers themselves, as expressed by the ratio which the land used for agriculture bears to the total acreage in the several area series, on the supposition that, where it is evidently more profitable to the holder to devote his holding to pursuits other than agriculture, it may be assumed he has more than a living area, and is not obliged to devote the land to any great extent to intense cultivation.

The following figures show how far this view may be taken to indicate the required area limit. The acreage of alienated land in each series is given, also the area cultivated, and a percentage column is added, showing the proportion which the latter is of the former :—

Size of Holdings.	Alienated Area.		Proportion of Cultivated Area to total alienated.
	Total.	Cultivated.	
acres.	acres.	acres.	per cent.
1 to 50	501,589	97,182	19·37
51 „ 100	724,909	107,418	14·82
101 „ 500	6,175,692	791,222	12·81
501 „ 1,000	5,331,666	675,322	12·67
1,001 „ 1,500	3,378,235	337,815	10·00
1,501 „ 3,000	4,932,693	342,257	6·94
3,001 „ 5,000	3,490,908	168,743	4·83
5,001 „ 10,000	4,928,884	138,031	2·80
10,001 and over ..	21,791,982	270,476	1·24
Total	51,256,563	2,928,466	5·71

It will be seen that the area under crop invariably decreases in ratio per cent. as the size of the holding increases, and that for the whole State the cropped area is about 6 per cent. of the total area alienated. As apparently 6 per cent. is the average extent to which it is advisable for agriculture to be followed for a profitable pursuit, it may fairly be argued that any land which is devoted to agriculture to a greater extent, as indicated by a higher area percentage, must be especially suited under present conditions for that purpose; also the largest average area of land thus utilised must represent the necessary area for settlement of that description.

A reference to the table shows that the series 1,500 to 3,000 acres contains the largest average areas wherein more than the average 6 per cent. of crop area is in evidence; consequently it may be conceded that a reasonable limit for an effective agricultural area is to be found within this series. Taking a moderate view of the matter, it has been assumed that the lowest area of this series, 1,500 acres, is the area limit.

A comparative statement of the number and area of holdings in area groups as at March, 1905 and 1910, is given below, also the proportions in each series :—

Size of Holding.	Number of Holdings.		Alienated Area.		Percentage in each series.			
	1905.	1910.	1905.	1910.	Holdings.		Area.	
					1905.	1910.	1905.	1910.
acres.			acres.	acres.				
1 to 50...	31,734	36,288	486,203	501,589	41·94	42·60	1·01	·98
51 „ 100...	9,108	9,173	720,243	724,909	12·04	10·77	1·50	1·41
101 „ 500...	21,989	24,672	5,428,153	6,175,692	29·06	28·97	11·29	12·05
501 „ 1,000...	6,607	7,632	4,622,272	5,331,666	8·73	8·96	9·61	10·40
1,001 „ 1,500...	2,234	2,752	2,744,051	3,378,235	2·95	3·23	5·71	6·59
1,501 „ 3,000...	1,910	2,327	4,030,908	4,932,698	2·52	2·73	8·38	9·62
3,001 „ 5,000...	784	912	3,047,469	3,490,908	1·04	1·07	6·34	6·81
5,001 „ 10,000...	584	711	4,171,754	4,928,884	·77	·84	8·68	9·62
10,001 and over.	722	711	22,830,261	21,791,982	·95	·83	47·48	42·52
Total ...	75,672	85,178	48,081,314	51,256,563	100·00	100·00	100·00	100·00

The number of holdings has increased from 75,672 to 85,178, or by 12·6 per cent., and the area from 48,081,314 acres to 51,256,563 acres, or by 6·6 per cent. There have been increases in the number and acreage of all the area groups except 10,001 acres and over. In holdings from 1 to 1,500 acres the number increased by 12·3 per cent., and the area by 15·1 per cent., holdings exceeding 1,501 acres showed increases of 16·5 and 3·1 per cent. in number and area respectively. There has been a slight decrease in the proportionate acreage of the group 51 to 100 acres; otherwise the reduction of the very large holdings has been concurrent with a percentage increase in all the smaller groups.

In the above table no account has been taken of the Crown lands which are held by a number of occupiers in addition to the alienated areas. A comparative statement is therefore given, showing the total acreage in occupation, including the Crown lands attached to estates in each area series. The estates have been classified, as in previous tables, according to the extent of private land only :—

Size of Holding.	Total area occupied, including Crown lands attached to alienated holdings.		Percentage in each series.	
	1905.	1910.	1905.	1910.
acres.	acres.	acres.		
1 to 50 ...	2,050,314	2,345,569	1·38	1·59
51 „ 100 ...	1,713,464	1,964,231	1·16	1·33
101 „ 500 ...	17,261,607	18,139,102	11·66	12·27
501 „ 1,000 ...	19,105,229	22,217,487	12·91	15·03
1,001 „ 1,500 ...	11,394,537	12,600,048	7·70	8·52
1,501 „ 3,000 ...	19,994,336	20,764,698	13·50	14·05
3,001 „ 5,000 ...	16,166,642	17,404,910	10·92	11·77
5,001 „ 10,000 ...	15,384,516	14,573,772	10·39	9·86
10,001 and over ...	44,973,165	37,807,253	30·38	25·58
Total ...	148,043,810	147,817,070	100·00	100·00

Taking account of the Crown leases, there have been reductions, actual and proportionate, in the acreage attached to the holdings from 5,001 to 10,000, as well as in the largest group. The decrease in the percentage of land in holdings from 51 to 100 acres, as noticed in the preceding table, is not apparent, as the area of Crown lands attached to these holdings was greater in 1910 than in 1905.

The next table shows the increase in cultivation in each series since 1905. The figures for 1910 include the cropped area of Crown lands held in conjunction with alienated, and, therefore, differ from that shown in an earlier table which relates to alienated land only.

Size of Holding.	Area cultivated.					
	Total.		Proportion to area occupied.		Proportion in each series.	
	1905.	1910.	1905.	1910.	1905.	1910.
acres.	acres.	acres.	per cent.	per cent.	per cent.	per cent.
1 to 50	109,385	102,380	·07	·07	4·37	3·33
51 ,, 100	122,177	112,631	·08	·08	4·89	3·67
101 ,, 500	740,670	838,252	·50	·57	29·60	27·30
501 ,, 1,000	511,381	714,812	·35	·48	20·44	23·28
1,001 ,, 1,500	212,863	354,875	·15	·24	8·51	11·56
1,501 ,, 3,000	255,854	360,491	·17	·24	10·23	11·74
3,001 ,, 5,000	126,654	172,874	·09	·12	5·06	5·63
5,001 ,, 10,000	122,713	140,584	·08	·10	4·90	4·58
10,001 and over	300,159	273,754	·20	·18	12·00	8·91
Total	2,501,856	3,070,653	1·69	2·08	100·00	100·00

In relation to the area occupied, the percentage of cultivation in holdings up to 100 acres has not altered; in the other groups up to 10,000 acres there have been increases. In proportion to the total cultivation, it is apparent that the extension of agriculture has taken place on estates from 501 to 5,000 acres, the increase being most noticeable in the group 1,001 to 1,500 acres. The proportionate decrease in the cultivation of the small holdings is mainly due to the preference now given to dairy farming in the coastal division, where the majority of these holdings are situated.

In order to show the effect of closer settlement in the different divisions of the State, a comparative statement of the size of holdings as at 31st March, 1905 and 1910, is shown below. At the earlier date, figures relating to the

same area series as in the previous tables are not available, as the details of the several area groups from 1,001 acres to 10,000 cannot be separately stated:—

Division.	Number of Holdings.				Percentage in each Series.				
	1 to 400 acres.	401 to 1,000 acres.	1,001 to 10,000 acres.	10,001 acres and over.	1 to 400 acres.	400 to 1,000 acres.	1,001 to 10,000 acres.	10,001 acres and over.	
Coastal ...	1905	33,992	2,178	931	55	91·5	5·9	2·5	0·1
	1910	39,282	2,602	1,022	51	91·4	6·1	2·4	0·1
Tableland ...	1905	13,613	2,104	1,373	149	79·0	12·2	7·9	0·9
	1910	14,129	2,430	1,612	154	77·1	13·3	8·8	0·8
Western Slopes..	1905	9,072	2,287	1,470	194	69·6	17·6	11·3	1·5
	1910	9,731	2,909	1,878	178	66·2	19·8	12·8	1·2
Western Plains..	1905	1,269	906	703	111	42·5	30·3	23·5	3·7
	1910	1,354	778	905	120	42·9	24·6	23·7	3·8
Riverina ...	1905	1,726	1,369	852	177	41·9	33·2	20·6	4·3
	1910	1,863	1,706	1,098	173	38·4	35·3	22·7	3·6
Western ...	1905	755	167	183	36	66·2	14·6	16·0	3·2
	1910	833	148	187	35	69·3	12·3	15·5	2·9
The State...	1905	60,427	9,011	5,512	722	79·8	11·9	7·3	1·0
	1910	67,192	10,573	6,702	711	78·9	12·4	7·9	0·8

In the Coastal Division, over 91 per cent. of the holdings are under 401 acres, and the proportion in each series is not likely to show great alteration. In the Tablelands, Western Slopes, and Riverina, there has been a proportionate decrease in the smallest and largest groups, and increases in the series 401 to 1,000 acres and 1,001 to 10,000 acres. In the Western Plains Division the percentage in the smallest and largest areas has remained about the same; but there has been a large decrease in the holdings from 401 to 1,000 acres, and a corresponding increase in the group 1,001 to 10,000 acres. In the Western Division, the proportion of holdings under 401 acres has increased, while there have been decreases in the other groups.

In comparison with the figures for the State, the acreage of holdings in each group in the Riverina district is given below. The tables show the alienated area in each group as at 31st March, 1905, in contrast with 1910. The Riverina Division has been selected for comparison, because in it are the largest holdings of the State, and it is, also, on the whole, admirably adapted for mixed farming.

The figures for the Riverina are contained in the following statement:—

Size of Holdings.	Alienated area.		Proportion in each Series.	
	1905.	1910.	1905.	1910.
acres.	acres.	acres.	per cent.	per cent.
1 to 400 ...	253,192	249,565	2·09	1·99
401 ,, 1,000 ...	875,703	1,095,805	7·24	8·73
1,001 ,, 10,000 ...	2,060,015	2,645,232	17·03	21·07
10,001 and over ...	8,907,454	8,562,723	73·64	68·21
Total ...	12,096,364	12,553,325	100·00	100·00

The next table shows the figures for the whole State :—

Size of Holding.	Alienated Area.		Proportion in each Series.	
	1905.	1910.	1905.	1910.
acres.	acres.	acres.	per cent.	per cent.
1 to 400	5,537,940	6,064,018	11·52	11·83
401 ,, 1,000	5,718,931	6,669,838	11·89	13·01
1,001 ,, 10,000	13,994,182	16,730,725	29·11	32·64
10,001 and over	22,830,261	21,791,982	47·48	42·52
Total	48,081,314	51,256,563	100·00	100·00

The increase or decrease in the proportionate acreage was as follows :—

Area.	Riverina.	The State.
acres.	per cent.	per cent.
1 to 400	Decrease 4·8	Increase 2·7
401 ,, 1,000	Increase 20·6	„ 9·4
1,001 ,, 10,000	„ 23·7	„ 12·1
10,001 and over...	Decrease 7·4	Decrease 10·4

From this it is gathered that the decrease in the holdings over 10,000 acres was 7·4 per cent. in Riverina as compared with 10·4 for the State as a whole, that this acreage has been transferred to swell the holdings between 400–10,000 acres, and there has actually been an appreciable decrease in that Division of the State in the holdings of 1–400 acres—the class which really calls for increase.

The increase in the extent of land used for agricultural purposes by occupiers of alienated holdings in each division since 1905 may be seen in the following table :—

Division.	Area under—		Percentage in each Division.	
			Area under—	
	Crops.	Grazing, &c.	Crops.	Grazing, &c.
Coastal	acres.	acres.		
	{ 1905 295,294	12,043,940	11·80	8·27
	{ 1910 315,621	12,230,311	10·27	8·45
Tableland	{ 1905 355,865	19,154,249	14·22	13·16
	{ 1910 383,891	19,107,111	12·50	13·20
Western Slopes	{ 1905 970,932	17,950,318	38·81	12·33
	{ 1910 1,361,727	17,478,044	44·35	12·07
Western Plains	{ 1905 189,798	18,047,950	7·59	12·41
	{ 1910 227,789	17,797,058	7·42	12·30
Riverina	{ 1905 682,403	17,031,065	27·28	11·70
	{ 1910 768,697	16,403,656	25·04	11·33
Western	{ 1905 7,564	61,314,432	·30	42·13
	{ 1910 12,928	61,730,237	·42	42·65
Total	{ 1905 2,501,856	145,541,954	100·00	100·00
	{ 1910 3,070,653	144,746,417	100·00	100·00

The actual area under crop has increased in each Division, but the percentage column shows that the increase has been most marked in the Western Slopes, the other divisions, with the exception of the Western, show decreases in proportion to the total cultivation. The area devoted to other rural pursuits has declined, except in the Coastal and Western Divisions, where there were small increases, but the proportions in each Division show very slight alteration.

A comparison of the number of persons employed in rural industries is given below. The figures are obtained from returns supplied by the landholders. In cases where agriculture is associated with other rural pursuits it is difficult to differentiate, and persons may be returned as engaged in agriculture in one year, and in other rural industries in another year. In view of the increase in cultivated area, the decrease in agricultural labour is probably explainable in this manner.

Division.	1905.				1910.			
	Persons employed.				Persons employed.			
	Agri-cultural.	Dairying.	Pastoral.	Total.	Agri-cultural.	Dairying.	Pastoral.	Total.
	No.	No.	No.	No.	No.	No.	No.	No.
Coastal	27,468	25,968	3,823	57,259	23,989	34,969	5,391	64,349
Tablelands	15,987	3,511	7,138	26,636	13,294	4,529	10,275	28,098
Western Slopes	15,921	1,369	5,926	23,216	17,351	2,723	8,393	28,467
Western Plains	2,769	119	4,244	7,132	2,173	153	5,892	8,218
Riverina	6,293	366	3,192	9,851	7,161	844	4,188	12,193
Western	415	58	3,563	4,036	343	99	4,575	5,017
New South Wales	68,853	31,391	27,886	128,130	64,311	43,317	38,714	146,342

The number of rural workers at 31st March, 1910, was 146,342, an increase of 14·2 per cent. since 1905; agricultural labour, however, decreased apparently from 68,853 to 64,311 persons during the same period. The persons engaged in dairying and pastoral pursuits have increased in every Division, but the only Divisions which show more agricultural workers were the Western Slopes and the Riverina. The decline in the Coastal Division was coincident with a considerable rise in the number of dairy hands.

SETTLEMENT IN LAND DIVISIONS.

For the purpose of an examination of the statistics showing the present state of rural settlement in New South Wales, it is found convenient to extend the inquiry successively to the various parts of the State in the order in which they were opened up, following the march of settlement in each of the zones into which the country may be geographically divided, viz., the Coast, the Tableland, the Western Slope of the Great Dividing Range, the Western Plains and Riverina, and the Western Division. Each zone, having its own special character, offers to the settler different natural resources according to its climatic conditions. Proceeding from the metropolis as a centre, settlement extended first along the coast, then to the central and more readily accessible parts of the tableland, following afterwards

the course of the great inland rivers towards the southern and western parts of the State; thence to the great plains of the west, spreading slowly across the river Darling to the confines of the territory.

The tables which follow show the holdings of alienated land classified according to size, the Crown land attached to such holdings, and the area devoted to agriculture or used for pastoral purposes. As in previous tables, the figures for each Division are exclusive of holdings containing Crown leases only.

COASTAL DIVISION.

That part of the county of Cumberland which embraces the metropolis and its suburbs is outside the limits of this examination, as it is not intended to inquire into the present condition of urban settlement, inasmuch as in the subdivisions and the distribution of landed property in the city and suburbs of Sydney there is now little difference between this and much older communities. The figures given below relate only to rural settlement in the remaining portion of this county.

From the county of Cumberland settlement advanced westward, and after the alluvial lands of the Hawkesbury and Nepean valleys had been occupied, the lower portion of the valley of the river Hunter, abounding with natural resources, agricultural as well as mineral, soon attracted settlers; and at the present time more population is concentrated in this district than in any other part of New South Wales outside the metropolitan area. Settlement gradually extended to the whole of the watershed of the Hunter and Manning Rivers.

The North Coast district, which is occupied by an industrious farming population, exhibits the most satisfactory results as regards settlement, which has extended very rapidly during recent years along the banks of the rivers.

In the earlier portion of last century settlement took a southerly direction from the metropolis, and extended rapidly along the lower valleys of the rivers of the South Coast, where the best lands were alienated in grants of large areas to a few families. Later on, however, the nature of the country and a more intelligent conception of the principles which should guide settlement brought about the subdivision of these large estates into numerous small holdings.

The following table shows the settlement of the Coastal Division:—

Size of Holdings.	Number of Holdings.	Area occupied.			Area under—	
		Alienated.	Crown Lands attached to alienated holdings.	Total.	Crops.	Grazing, &c.
acres.		acres.	acres.	acres.	acres.	acres.
1 to 50 ...	22,871	311,051	136,584	447,635	59,509	388,126
51 ,, 100 ...	5,598	440,886	148,753	589,649	52,702	536,947
101 ,, 500 ...	11,708	2,663,168	1,013,278	3,676,446	141,731	3,534,715
501 ,, 1,000 ...	1,707	1,181,037	501,630	1,682,667	29,409	1,653,258
1,001 ,, 1,500 ...	440	537,170	432,503	969,673	8,146	961,527
1,501 ,, 3,000 ...	384	810,976	513,487	1,324,463	10,216	1,314,247
3,001 ,, 5,000 ...	115	443,004	243,418	686,422	5,005	681,417
5,001 ,, 10,000 ...	83	576,431	493,238	1,069,669	3,152	1,066,517
10,001 and over ...	51	1,227,079	872,229	2,099,308	5,751	2,093,557
Coastal Division...	42,957	8,190,812	4,355,120	12,545,932	315,621	12,230,311

Percentage in each Area Series.

Size of Holdings.	Number of Holdings.	Area occupied.			Area under—	
		Alienated.	Crown Lands attached to alienated holdings.	Total.	Crops.	Grazing, &c.
1 to 50	53.2	3.8	3.1	3.6	18.9	3.2
51 ,, 100	13.0	5.4	3.4	4.7	16.7	4.4
101 ,, 500	27.3	32.5	23.3	29.3	44.9	28.9
501 ,, 1,000	4.0	14.4	11.5	13.4	9.3	13.5
1,001 ,, 1,501	1.0	6.6	10.0	7.7	2.6	7.9
1,501 ,, 3,000	.9	9.9	11.8	10.6	3.2	10.7
3,001 ,, 5,000	.3	5.4	5.6	5.5	1.6	5.6
5,001 ,, 10,000	.2	7.0	11.3	8.5	1.0	8.7
10,001 and over	.1	15.0	20.0	16.7	1.8	17.1
Total	100.0	100.0	100.0	100.0	100.0	100.0

The total area of this Division is 22,355,401 acres, of which 8,190,812 acres, or 36.6 per cent., have been alienated. There are 4,355,120 acres of Crown land held in conjunction with the alienated, making a total of 12,545,932 acres.

The holdings under 51 acres represent 53.2 per cent. of the total number, and are generally market gardens and orchards in the vicinity of towns. The moderate-sized holdings consist mainly of dairy-farms; the dairy cows depastured in the Coastal Division number 566,427, or 71.3 per cent. of the total in the State. The area under crop is 315,621 acres, and represents 2.5 per cent. of the land occupied.

In addition to the holdings shown above there are 499,186 acres held by 886 lessees of Crown lands only, the cropped area being 2,422 acres. The area of alienated land enclosed is 7,501,494 acres, and of Crown land, 2,373,884 acres.

From the foregoing a fairly clear idea may be obtained of the present state of rural settlement in the valleys of the northern coastal rivers, and in the country extending from the sea to the first slopes of the Great Dividing Range. Geographical features and climate are the main elements in determining the use to which the land shall be put, irrespective of administrative boundaries. In this part of the State the settlement of the public lands has proceeded in a way very different from that of the tableland, which extends from north to south, and divides the rich agricultural valleys of the coastal rivers and their broken mountainous watershed from the immense plains of the western district.

TABLELAND DIVISION.

After the difficulty of surmounting the precipitous ranges had been overcome, the pioneers of settlement penetrated to the central tableland, thence to the south and north, and afterwards gradually spread over the whole of the west. At first they followed the courses of the great rivers, and occupied little by little all the available land, until at the present time only a small proportion of such country remains untenanted.

In the northern tableland the disproportion between freeholders and tenants is strongly marked, the latter forming a very small minority of the occupiers of alienated land.

The following statement shows the actual state of rural settlement in the tablelands :—

Size of Holdings.	No. of Holdings	Area Occupied.			Area under—	
		Alienated.	Crown Land Attached to Alienated Holdings.	Total.	Crops.	Grazing, &c.
acres.		acres.	acres.	acres.	acres.	acres.
1 to 50 ...	6,517	101,386	405,564	506,950	19,388	487,562
51 ,, 100 ...	2,025	160,120	308,147	468,267	23,570	444,697
101 ,, 500 ...	6,300	1,594,355	2,542,028	4,136,383	160,183	3,976,200
501 ,, 1,000 ...	1,717	1,203,263	1,141,224	2,344,487	67,419	2,277,068
1,001 ,, 1,500 ...	622	765,176	739,445	1,504,621	24,565	1,480,056
1,501 ,, 3,000 ...	582	1,223,002	1,300,919	2,523,921	33,600	2,490,321
3,001 ,, 5,000 ...	210	810,859	461,924	1,272,783	17,530	1,255,253
5,001 ,, 10,000 ...	198	1,375,309	959,711	2,335,020	12,944	2,322,076
10,001 and over ...	154	3,028,056	1,370,514	4,398,570	24,692	4,373,878
Tableland Division ...	18,325	10,261,526	9,229,476	19,491,002	383,891	19,107,111

Percentage in each Area Series.

1 to 50 ...	35·6	1·0	4·4	2·6	5·0	2·6
51 ,, 100 ...	11·0	1·6	3·3	2·4	6·1	2·3
101 ,, 500 ...	34·4	15·5	27·5	21·2	41·7	20·8
501 ,, 1,000 ...	9·4	11·7	12·4	12·0	17·6	1·9
1,001 ,, 1,500 ...	3·4	7·5	8·0	7·7	6·4	7·7
1,501 ,, 3,000 ...	3·2	11·9	14·1	13·0	8·8	13·0
3,001 ,, 5,000 ...	1·1	7·9	5·0	6·5	4·6	6·6
5,001 ,, 10,000 ...	1·1	13·4	10·4	12·0	3·4	12·2
10,001 and over ...	·8	29·5	14·9	22·6	6·4	22·9
Total ...	100·0	100·0	100·0	100·0	100·0	100·0

The alienated area represents 39·7 per cent. of the total area of this Division, 25,831,246 acres. The holdings from 1 to 1,500 acres in extent represent nearly 94 per cent., and contain 37·3 per cent. of the land occupied. The area under crops, 383,891 acres, represents 1·97 per cent. of the area occupied.

There are 9,229,476 acres of Crown land held in conjunction with alienated areas, and, in addition, 758,450 acres, of which 3,117 acres are cultivated, are contained in 908 holdings of Crown lands only. In this Division 10,147,122 acres of alienated and 7,525,494 acres of Crown land are enclosed.

WESTERN SLOPES.

The districts situated on the Western Slope of the Great Dividing Range mark the transition between the agricultural settlements of the west and tableland, and the purely pastoral settlements of the Great Western plains. The extent of arable land in the Western Slopes is very large; and, although

The area alienated in the Western Plains is 6,593,452 acres, or 25·3 per cent. of the total of the Division, 26,060,781 acres. Crown Lands to the extent of 11,431,395 acres are attached to the alienated holdings, and of the total area thus occupied 227,789 acres, or about $\frac{1}{4}$ per cent. are cultivated. There are, in addition, 1,329 holdings of Crown lands only, containing 4,679,042 acres. The greater portion of the land in this Division is enclosed, 6,510,157 acres of alienated, and 15,533,852 acres of Crown land.

Nearly half the alienated area is contained in holdings over 10,001 acres in extent, but the average area of the large estates is not so high as in the Riverina, the figures being—Western Plains, 120 holdings, averaging 31,000 acres; and Riverina, 173 estates, averaging nearly 50,000 acres.

The Riverina is a splendid expanse of pastoral and agricultural country, intersected by a network of streams, bounded on the north by the Lachlan River, and on the south by the Murray. The soil in this region is of surprising fertility. The occupation of the Division is shown in the following table:—

Size of Holding.	Number of Holdings.	Area Occupied.		Total.	Area under—	
		Alienated.	Crown Lands Attached to Alienated Holdings.		Crops.	Grazing, &c.
acres.		acres.	acres.	acres.	acres.	acres.
1 to 50 ...	821	9,123	43,948	53,071	1,709	51,362
51 ,, 100 ...	187	14,778	24,444	39,222	3,589	35,633
101 ,, 500 ...	1,247	407,229	291,719	698,948	133,927	565,021
501 ,, 1,000 ...	1,314	914,240	536,991	1,451,231	224,546	1,226,685
1,001 ,, 1,500 ...	448	550,608	239,591	790,199	103,529	686,670
1,501 ,, 3,000 ...	394	827,803	583,454	1,411,257	102,479	1,308,778
3,001 ,, 5,000 ...	157	595,658	429,933	1,025,591	46,916	978,675
5,001 ,, 10,000 ...	99	671,163	231,890	903,053	39,396	863,657
10,001 and over ...	173	8,562,723	2,237,058	10,799,781	112,606	10,687,175.
Riverina ...	4,840	12,553,325	4,619,028	17,172,353	768,697	16,403,656

Percentage in each Area Series.

1 to 50 ...	17·0	·1	1·0	·3	·2	·3
51 ,, 100 ...	3·9	·1	·5	·3	·5	·2
101 ,, 500 ...	25·8	3·3	6·3	4·1	17·4	3·4
501 ,, 1,000 ...	27·1	7·3	11·6	8·5	29·2	7·5
1,001 ,, 1,500 ...	9·3	4·4	5·2	4·5	13·5	4·2
1,501 ,, 3,000 ...	8·1	6·6	12·7	8·2	13·3	8·0
3,001 ,, 5,000 ...	3·2	4·7	9·2	6·0	6·1	6·0
5,001 ,, 10,000 ...	2·0	5·3	5·0	5·2	5·1	5·3
10,001 and over ...	3·6	68·2	48·5	62·9	14·7	65·1
Total ...	100·0	100·0	100·0	100·0	100·0	100·0

The total area of the Riverina Division is 19,767,073 acres, of which 12,553,325 acres, or 63·5 per cent., have been alienated; 4,619,028 acres of Crown land are held in conjunction with alienated, so that the area occupied amounts to 17,172,353 acres, 4·5 per cent. being cultivated. Of the alienated land, 15 per cent. is held in areas up to 1,500 acres, 17 per cent. in holdings from 1,501 to 10,000, and 68 per cent. in estates over 10,001 acres.

In addition to the holdings shown above, there are 521 containing 1,342,648 acres of Crown lands only. The total area devoted to agriculture amounts to 787,082 acres, including 18,385 acres on holdings of Crown lands only.

THE WESTERN DIVISION.

In the extreme west of the State settlement is making but slow progress. With the exception of the great mining centre of Broken Hill, situated on the boundary of the neighbouring State of South Australia, around which a large population has settled, the whole of this vast portion of the domain of New South Wales is given up to the depasturing of stock.

The present state of settlement in the Western Division is illustrated by the figures given below :—

Size of Holding.	Number of Holdings.	Area occupied.			Area under—	
		Alienated.	Crown lands attached to alienated Holdings.	Total.	Crops.	Grazing, &c.
acres.		acres.	acres.	acres.	acres.	acres.
1 to 50 ...	617	6,000	992,735	998,735	571	998,164
51 ,, 100 ...	71	5,952	635,667	641,619	575	641,044
101 ,, 500 ...	161	41,157	6,404,978	6,446,135	1,175	6,444,960
501 ,, 1,000 ...	132	91,159	11,704,247	11,795,406	1,933	11,793,473
1,001 ,, 1,500 ...	65	80,160	5,923,734	6,003,894	555	6,003,339
1,501 ,, 3,000 ...	52	111,578	10,773,442	10,885,020	1,846	10,883,174
3,001 ,, 5,000 ...	41	165,826	10,951,441	11,117,267	1,841	11,115,426
5,001 ,, 10,000 ...	29	209,719	5,887,382	6,097,101	1,040	6,096,061
10,001 and over. ...	35	938,383	6,819,605	7,757,988	3,392	7,754,596
Western Division ...	1,203	1,649,934	60,093,231	61,743,165	12,928	61,730,237

Percentage in each Area Series.

1 to 50 ...	51·3	0·4	1·6	1·6	4·4	1·6
51 ,, 100 ...	5·9	0·4	1·1	1·0	4·5	1·1
101 ,, 500 ...	13·4	2·5	10·7	10·5	9·1	10·4
501 ,, 1,000 ...	11·0	5·5	19·5	19·1	15·0	19·1
1,001 ,, 1,500 ...	5·4	4·8	9·9	9·7	4·3	9·7
1,501 ,, 3,000 ...	4·3	6·8	17·9	17·6	14·3	17·6
3,001 ,, 5,000 ...	3·4	10·0	18·2	18·0	14·2	18·0
5,001 ,, 10,000 ...	2·4	12·7	9·8	9·9	8·0	9·9
10,001 and over. ...	2·9	56·9	11·3	12·6	26·2	12·6
Total... ..	100·0	100·0	100·0	100·0	100·0	100·0

The proportion of land alienated is only 2 per cent. of the total area, being an aggregate of 1,649,934 acres out of 80,368,498 acres which the division is estimated to contain. The land in the Western Division can only be alienated by auction or held under lease from the Crown. The area of Crown lands held is therefore very large, 60,093,231 acres being attached to alienated holdings and 15,045,613 acres in 892 holdings consisting of Crown leases only. The general character of the country militates against agricultural production and the successful rearing of cattle; sheep-breeding is practically the only industry, except in the vicinity of townships, where market-gardens and fruit orchards are found. The area under crop, 12,928 acres, shown above, represents ·02 per cent. of the area occupied.

The area of alienated land enclosed is 1,611,126 acres, and of Crown land 73,195,712 acres.

A summary of the preceding tables is shown in the following statement, which relates to the whole State. The percentages in each area series are also given:—

Size of Holdings.	No. of Holdings.	Area Occupied.			Area under—	
		Alienated.	Crown Land attached to Alienated Holdings.	Total.	Crops.	Grazing, &c.
acres.		acres.	acres.	acres.	acres.	acres.
1 to 50	36,288	501,589	1,843,980	2,345,569	102,380	2,243,189
51 ,, 100	9,173	724,909	1,239,322	1,964,231	112,631	1,851,600
101 ,, 500	24,672	6,175,692	11,963,410	18,139,102	838,252	17,300,850
501 ,, 1,000	7,632	5,331,666	16,885,821	22,217,487	714,812	21,502,675
1,001 ,, 1,500	2,752	3,378,235	9,221,813	12,600,048	354,875	12,245,173
1,501 ,, 3,000	2,327	4,932,698	15,832,000	20,764,698	360,491	20,404,207
3,001 ,, 5,000	912	3,490,908	13,914,002	17,404,910	172,874	17,232,036
5,001 ,, 10,000	711	4,928,884	9,644,888	14,573,772	140,584	14,433,188
10,001 and over	711	21,791,982	16,015,271	37,807,253	273,754	37,533,499
Total ...	85,178	51,256,563	96,560,507	147,817,070	3,070,653	144,746,417

Percentage in each Area Series.

1 to 50	42.6	1.0	1.9	1.6	3.3	1.5
51 ,, 100	10.8	1.4	1.3	1.3	3.7	1.3
101 ,, 500	29.0	12.1	12.4	12.3	27.3	12.0
501 ,, 1,000	9.0	10.4	17.5	15.0	23.3	14.9
1,001 ,, 1,500	3.2	6.6	9.5	8.5	11.6	8.5
1,501 ,, 3,000	2.7	9.6	16.4	14.1	11.7	14.1
3,001 ,, 5,000	1.1	6.8	14.4	11.8	5.6	11.9
5,001 ,, 10,000	.8	9.6	10.0	9.8	4.6	9.9
10,001 and over	.8	42.5	16.6	25.6	8.9	25.9
Total ..	100.0	100.0	100.0	100.0	100.0	100.0

The holdings from 1 to 1,500 acres represent 95 per cent. of the total, and contain 32 per cent. of the alienated area, and 69 per cent. of the land under cultivation. The estates over 10,001 acres contain 42 per cent. of the alienated land, and are used mainly for pastoral purposes.

There are 5,768 occupiers of Crown lands only, not connected with alienated holdings; the area is 24,221,005 acres, of which 104,211 acres are cultivated. The area of alienated holdings over 1 acre in extent in the State is 51,256,563 acres, and of the Crown lands occupied 120,781,512 acres, making a total of 172,038,075 acres. Of this area, 168,863,211 acres are used for grazing and dairying, and 3,174,864 acres for agriculture.

The figures in regard to holdings represent rural settlement only, and account for 51,256,563 acres out of a total of 52,964,916 acres that have been alienated. The balance of 1,708,353 acres represents lands in cities and towns, and lands dedicated for public purposes, and unoccupied.

AVERAGE AREA OF HOLDINGS.

The average area of alienated holdings varies enormously in the different divisions of the State. The following figures show the averages of alienated land only, and also of the total area occupied, that is, alienated and Crown land attached :—

Division.	Average Holding.	
	Alienated Area only.	Alienated and Crown Lands attached.
	acres.	acres.
Coastal	191	292
Tableland	560	1,064
Western Slopes	817	1,282
Western Plains	2,089	5,709
Riverina	2,594	3,548
Western Division	1,372	51,324
The State	602	1,735

CLASSIFICATION OF HOLDINGS.

From the tables which follow it will be seen that the holdings are distributed into four distinct classes of holders of alienated land, viz. :—(1) Persons who occupy their own freeholds ; (2) persons occupying holdings which they rent from the freeholders ; (3) owners of land who rent from other private owners land which they work in addition to their own freeholds ; (4) persons who, in addition to alienated land, either freehold or rented from private owners, rent from the Crown areas which are generally devoted to the depasturing of stock. In some districts the system of working on shares is in vogue—the owner finding the land and capital to work the farms, and the other party the labour.

Divisions.	Occupiers of—					Area.			
	Freehold.	Private Rented.	Partly Freehold and partly Private Rented.	Holdings of Alienated and Crown Lands.	Total.	Freehold.	Private Rented.	Crown Lands attached to Alienated.	Total.
						acres.	acres.	acres.	acres.
Coastal	26,657	9,768	2,637	3,895	42,957	6,596,848	1,598,909	4,355,120	12,545,932
Tableland	8,913	2,262	1,003	6,142	18,325	9,343,224	918,302	9,229,476	19,491,002
Western Slopes	8,374	1,319	532	3,971	14,696	11,440,465	567,049	6,832,257	18,839,771
Western Plains	1,280	138	37	1,702	3,157	6,447,300	146,152	11,431,395	18,024,847
Riverina	3,460	321	183	876	4,840	12,149,115	404,210	4,619,028	17,172,353
Western	657	62	16	468	1,203	1,600,965	48,069	60,098,231	61,748,165
New South Wales	49,841	13,370	4,413	17,054	85,178	47,577,912	3,678,651	96,560,507	147,817,070

An analysis of these figures shows that the majority of holders own the land they occupy. The total number of occupiers is 85,178, of whom 49,841 ; or 59 per cent., occupy their own freeholds ; and in 15,369 holdings which are

partly Crown leases, the alienated portions are owned by the occupiers. Tenancy, as understood in older settled communities, has made comparatively little progress in this State, 92·8 per cent. of the alienated land being in the occupancy of the proprietors. Of the total area occupied, 32 per cent. is freehold, 3 per cent. rented from private owners, and 65 per cent. leased from the Crown. Nearly two-thirds of the Crown lands leased are in the Western Division, and in the Riverina 71 per cent. of the land occupied is freehold.

Below will be found the number of holdings of various sizes throughout the State, distinguishing freehold from rented land. It is to be understood that here, as elsewhere in this chapter, though reference is made to holders who occupy Crown lands in addition to alienated lands, the area of such Crown lands is not considered in treating of the size of the holdings:—

Size of Holdings.	Freehold.	Private Rented.	Partly Freehold and partly Private Rented.	Partly Alienated and partly Crown Lands.	Total.
acres.					
1 to 50	25,355	7,762	1,433	1,738	36,288
51 ,, 100	5,041	2,022	455	1,655	9,173
101 ,, 500	12,664	3,463	1,638	6,907	24,672
501 ,, 1,000	3,849	404	463	2,916	7,632
1,001 ,, 1,500	1,324	100	170	1,158	2,752
1,501 ,, 3,000	923	78	142	1,184	2,327
3,001 ,, 5,000	321	25	53	513	912
5,001 ,, 10,000	228	9	35	439	711
10,001 ,, 15,000	57	3	12	153	225
15,001 ,, 20,000	21	3	4	95	123
20,001 ,, 30,000	29	1	7	135	172
30,001 ,, 40,000	8	...	...	48	56
40,001 ,, 50,000	6	...	1	29	36
50,001 and over	15	...	...	84	99
Total	49,841	13,870	4,413	17,054	85,178

From the above it will be seen that the total number of occupiers of freeholds only is 49,841, the proportion to the total number of occupiers being fairly constant in each size of holdings. Absolute tenants of private lands, who number 13,870, are far more numerous in the smaller classes of holdings, and rapidly diminish both in number and in proportion as the estates become larger. The same is the case with regard to holders of freehold and private rented land, who number only 4,413. The persons who occupy alienated areas with Crown lands attached number 17,054, and 57·5 per cent. of the holdings over 1,500 acres in extent are in this category.

The area of the alienated holdings referred to in the table just given, whether freehold, private rented, or Crown land, will be found in the figures subjoined, which also show the percentage of the total area occupied in holdings of each size :—

Size of Holdings.	Area Occupied.				Proportion to Total Occupied.			
	Freehold.	Private Rented.	Crown Land attached to Alienated.	Total.	Freehold.	Private Rented.	Crown Lands attached to Alienated	Total.
acres.	acres.	acres.	acres.	acres.				
1 to 50	382,430	119,159	1,843,980	2,345,569	·26	·08	1·25	1·59
51 ,, 100	540,917	183,992	1,239,322	1,964,231	·37	·12	·84	1·33
101 ,, 500	5,139,988	1,035,704	11,963,410	18,139,102	3·47	·71	8·09	12·27
501 ,, 1,000	4,808,165	523,501	16,885,821	22,217,487	3·26	·35	11·42	15·03
1,001 ,, 1,500	3,093,234	285,001	9,221,813	12,600,048	2·09	·19	6·24	8·52
1,501 ,, 3,000	4,473,952	458,746	15,832,000	20,764,698	3·03	·31	10·71	14·05
3,001 ,, 5,000	3,224,071	266,837	13,914,002	17,404,910	2·18	·18	9·41	11·77
5,001 ,, 10,000	4,590,643	338,241	9,644,888	14,573,772	3·11	·23	6·52	9·86
10,001 ,, 15,000	2,583,700	155,086	3,907,424	6,646,210	1·75	·11	2·64	4·50
15,001 ,, 20,000	2,009,789	108,155	2,901,079	5,019,023	1·36	·07	1·96	3·39
20,001 ,, 30,000	4,047,365	141,857	2,958,725	7,147,947	2·74	·10	2·00	4·84
30,001 ,, 40,000	1,946,796	9,644	1,637,345	3,593,785	1·31	·01	1·11	2·43
40,001 ,, 50,000	1,600,927	12,544	2,103,673	3,717,144	1·08	·01	1·42	2·51
50,001 and over	9,135,935	40,184	2,507,025	11,683,144	6·18	·03	1·70	7·91
Total	47,577,912	3,678,651	96,560,507	147,817,070	32·19	2·50	65·31	100·00

The following table shows the alienated area and the Crown Lands attached thereto, classified according to the size of private holdings :—

Size of Holdings.	Holdings.		Area Alienated.		Crown Lands attached to Alienated lands.	
	Number.	Percentage of total Holdings.	Acres.	Percentage of total Alienated Area.	Acres.	Percentage of total Crown lands attached to Alienated.
acres.						
1 to 16	25,012	29·36	117,580	·23	263,508	·27
16 ,, 50	11,276	13·24	384,009	·75	1,580,472	1·64
51 ,, 100	9,173	10·77	724,909	1·41	1,239,322	1·28
101 ,, 500	24,672	28·97	6,175,692	12·05	11,963,410	12·39
501 ,, 1,000	7,632	8·96	5,331,666	10·40	16,885,821	17·49
1,001 ,, 1,500	2,752	3·23	3,378,235	6·59	9,221,813	9·55
1,501 ,, 2,000	1,118	1·31	1,955,431	3·82	4,776,198	4·95
2,001 ,, 3,000	1,209	1·42	2,977,267	5·81	11,055,802	11·45
3,001 ,, 4,000	583	·69	2,024,022	3·95	8,009,316	8·30
4,001 ,, 5,000	329	·39	1,466,886	2·86	5,904,686	6·11
5,001 ,, 7,500	472	·55	2,848,420	5·56	6,492,594	6·72
7,501 ,, 10,000	239	·28	2,080,464	4·06	3,152,294	3·26
10,001 ,, 15,000	225	·26	2,738,786	5·34	3,907,424	4·05
15,001 ,, 20,000	123	·14	2,117,944	4·13	2,901,079	3·00
20,001 ,, 30,000	172	·20	4,189,222	8·17	2,958,725	3·06
30,001 ,, 40,000	56	·07	1,956,440	3·82	1,637,345	1·70
40,001 ,, 50,000	36	·04	1,613,471	3·15	2,103,673	2·18
50,001 and over	99	·12	9,176,119	17·90	2,507,025	2·60
Total	85,178	100·00	51,256,563	100·00	96,560,507	100·00

It is one of the features of the table, that whilst the holders of estates exceeding 1,000 acres constitute but 0·83 per cent. of the total occupiers, the land held represents 42·5 per cent. of the total alienated area. This is still more accentuated in the case of 99 holdings of 50,001 acres and upwards, which represent only 0·12 per cent. of the total number of holdings, but embrace 17·9 per cent. of the land.

EMPLOYMENT AND ARBITRATION.

A FAIR approximation of the number of persons engaged in various occupations is available only at the Census, and the particulars then obtained are not wholly satisfactory, as in many cases the number engaged in any stated industry cannot be ascertained owing to the vagueness of the replies, but it is important that the occupations should be classified in as simple and systematic a manner as possible; and the classification adopted in New South Wales, and throughout Australia generally, was drawn up for the Census of 1891, and adopted with a few minor modifications for use at the Census of 1901.

By this system the people are divided into eight great classes, and these again into orders and sub-orders. The first seven classes include all breadwinners, and the eighth all dependents. Class I, which is called the Professional, includes those ministering to General and Local Government, Defence, Law and Order, Religion, Charity, Education, Art, Science, and Amusement. All persons employed by the General and Local Government, whose occupations properly belong to the Producing, Industrial, or Commercial Classes, are included in such classes, as the value of the classification is evidently the knowledge as to *how*, and not *by whom*, these persons are employed. Class II, the Domestic, includes all persons supplying board and lodging, and performing domestic duties for which remuneration is paid. Class III relates to Distributors and Sellers; Class IV to those engaged in the many and varied occupations in connection with Carriage and Transport; artificers and makers are included in Class V; and Class VI contains all producers of raw material in whatever industry. Thus it may be said that the great working or mechanical classes are included in the four-classes III to VI.

The classes may be briefly defined as follows:—

SECTION A.—BREADWINNERS.

Class.

- I.—Professional.
- II.—Domestic.
- III.—Commercial.
- IV.—Transport and Communication.
- V.—Industrial.
- VI.—Agricultural, Pastoral, Mineral, and other Primary Producers.
- VII.—Indefinite.

SECTION B.—DEPENDENTS—NON-BREADWINNERS.

VIII.—Dependents.

The main object of the classification is to obtain the total number of workers, in any capacity whatever, in any particular industry or business; not only those directly related to the industry or business, but those holding subordinate positions who assist in its conduct, and who would not otherwise be in the same sub-order as the principal workers.

The population, distributed into the classes described above, and the proportion per cent. in each at the Census of 1901 were as follow:—

Classes.	Number.			Proportion per cent.		
	Males.	Females.	Persons.	Males.	Females.	Persons.
I.—Professional	26,855	14,529	41,384	3·79	2·26	3·06
II.—Domestic	20,128	52,690	72,818	2·84	8·17	5·39
III.—Commercial	67,097	10,567	77,664	9·48	1·64	5·74
IV.—Transport and Communica- tion.	42,822	1,045	43,867	6·05	·16	3·24
V.—Industrial	122,692	23,996	146,688	17·33	3·72	10·85
VI.—Primary Producers	168,212	4,642	172,854	23·75	·72	12·78
VII.—Indefinite	3,597	5,927	9,524	·51	·92	·70
Breadwinners	451,403	113,396	564,799	63·75	17·59	41·76
VIII.—Dependents	256,634	531,164	787,798	36·25	82·41	58·24
Occupation not stated	1,968	281	2,249	...	...	...
Total Population	710,005	644,841	1,354,846	100·00	100·00	100·00

It will be seen that the Dependents, both male and female, comprise the largest class, owing to the fact that children are included therein, and also that wives engaged in household concerns materially add to the females in this class. Of the males who are breadwinners, the greatest number are employed in primary pursuits, which comprise 23·75 per cent. of the population; those engaged in the Industrial Class, 17·33 per cent., come next; and then the Commercial Class, 9·48 per cent. Of those in the Industrial Class over 27,000 are general labourers. Among females by far the largest proportion is in the Domestic Class. Next comes the Industrial Class, which includes over 18,000 dressmakers and tailoresses.

BREADWINNERS AND DEPENDENTS.

The population is resolved into the two broad divisions, breadwinners and dependents, and from the above table it is seen that at the Census of 1901, 564,799, or 41·76 per cent., of the population were breadwinners, and 787,798, or 58·24 per cent., were dependents. The proportions, however, differed widely in the two sexes, only 17·59 per cent. of the females being breadwinners, as against 63·75 per cent. of the males.

The term "dependent" has a specific meaning. Under this heading are included married women and others who perform domestic duties; but it is justified on the ground that for such services no money-wages are paid. The dependents are divisible into four subdivisions, viz.:—(a) Persons employed in household duties without receiving wages;—of these there were 282,718 females, and only 128 males; (b) persons of tender years unable to earn their own livelihood;—of these there were 145,965 males and 145,441 females; (c) relatives and others not performing household duties;—of these there were 99,736 males and 97,336 females; and (d) persons dependent on charity, or under legal detention;—of these there were 10,805 males and 5,669 females. The persons performing household duties without receiving wages were chiefly the wives and daughters of breadwinners. The relatives and others not performing household duties were aged persons, the parents or grandparents of the breadwinners; and children beyond the school age. Under the latter category were also included all persons under 20 years of age whose occupation was not returned.

Grouped in the two great divisions of breadwinners and dependents, and excluding those whose occupation was not recorded, the proportion of population in each class per cent of the total population at each Census from 1861 to 1901 was as follows:—

Census Years.	Breadwinners.			Dependents.		
	Males.	Females.	Total.	Males.	Females.	Total.
1861	67.58	19.07	46.46	32.42	80.98	53.54
1871	63.19	16.01	41.67	36.81	83.99	58.33
1881	64.37	16.29	42.61	35.63	83.71	57.39
1891	63.13	17.36	42.09	36.87	82.64	57.91
1901	63.75	17.59	41.76	36.25	82.41	58.24

These figures show very little change in the division of the population. In 1861 the high proportion of breadwinners was due to the relatively small number of young persons. In the later years the greater proportion of dependents was largely due to the increased number of the aged.

PRIMARY PRODUCERS.

It has already been observed that the largest occupation-class of the population is employed in primary pursuits. The following statement shows the various branches of primary industries followed at the Census of 1901. For comparative purposes, the Census figures of 1891 are also shown, that being the first year when reliable particulars relating to occupations were obtained:—

Engaged in—	1891.		1901.	
	Males.	Females.	Males.	Females.
Agriculture	66,483	7,022	75,884	1,735
Pastoral Pursuits	27,212	334	31,312	595
Dairying	4,996	4,758	15,850	2,285
Mining	30,936	1	38,378	4
Forests	1,653	.....	2,431	1
Fisheries	793	.....	1,238	3
Other Primary Pursuits.	2,773	3	3,119	19
Total	134,846	12,118	168,212	4,642

Agriculture claims the largest number of followers; then mining, pastoral, and dairying pursuits. The rural industries are the most important to any State, and the following statement shows at each Census from 1871 to 1901 the number and proportion of the whole population engaged in primary pursuits:—

Census.	Number.			Proportion of whole Population. per cent.
	Males.	Females.	Total.	
1871	81,431	8,027	89,458	17.95
1881	96,091	8,905	104,996	14.09
1891	134,846	12,118	146,964	13.11
1901	168,212	4,642	172,854	12.78

The decrease in the proportion from 1891 to 1901 was due to the decrease in the number of females employed. The number of women engaged in agricultural and dairying pursuits varies with the time of the year. Beside the 1,735 women shown as employed in agriculture at the Census of 1901, there were some 2,500 others employed partly in connection with agriculture, and partly in domestic duties. The majority of these were relatives of the farmers, and appear in the classification as engaged in domestic duties, and therefore as dependents. Similarly, some 10,000 women who were engaged partly in dairying and partly in domestic duties are classified as performing domestic duties. If the women partly employed in agriculture and dairying be included with those mainly so employed, the total women engaged in agriculture would be 4,267, and in dairying 12,156.

THE INDUSTRIAL CLASS.

The persons engaged in industrial pursuits numbered 146,688, and of this number 94,119 were employed in manufacturing. The following table shows the numbers employed in the different branches of industry, and for purposes of comparison similar information is given for the year 1891:—

Engaged in—	1891.		1901.	
	Males.	Females.	Males.	Females.
Manufacture of Art and Mechanic Productions	23,108	623	26,346	1,157
Manufacture of Textile Fabrics, Dress, and Fibrous Materials	7,709	16,892	9,451	21,644
Manufacture of Food, Drinks, Narcotics, and Stimulants... ..	7,699	240	11,638	875
Manufacture, &c., of Animal and Vegetable Substances	5,193	7	5,546	50
Manufacture, &c., relating to Metals and Mineral Matters	12,032	8	15,336	60
Working in Fuel, Light, and other forms of Energy	1,639	.....	2,012	4
Construction or repair of Buildings, Roads, Railways, &c.	37,590	2	36,898	11
Disposal of the Dead or of Refuse	386	5	1,278	15
Industrial Workers imperfectly defined	23,642	42	14,187	180
Total, Industrial Classes	118,998	17,819	122,692	23,996

The largest number in the industrial classes is employed in the construction or repair of buildings, railways, &c. Of the males in the manufacturing branches, the number engaged in art and mechanic productions is the largest; this order includes 5,432 working in engineering and iron works, 4,641 in books and printing, and 4,206 in building materials and other manufactures of timber. Practically all the females are engaged in the manufacture of textile fabrics, dress and fibrous materials, although a small proportion is employed in connection with book-binding and printing.

THE COMMERCIAL CLASS.

The persons engaged in commercial callings numbered 77,664, of whom 66,299 were engaged in trade. The persons engaged in the various branches of trade at the Census of 1891 and 1901 are shown below:—

Dealing in—	1891.		1901.	
	Males.	Females.	Males.	Females.
Art and Mechanic Productions	2,602	226	4,144	564
Textile Fabrics and Dress and Fibrous Materials...	4,965	857	6,957	2,269
Food, Drinks, Narcotics, and Stimulants	12,720	1,066	19,522	2,581
Animals, and Animal and Vegetable Substances ...	3,313	59	5,984	154
Coal and other substances mainly used for Fuel and Light	1,339	10	2,084	25
Minerals other than for Fuel and Light	1,503	26	2,136	60
Mercantile Pursuits not elsewhere classed... ..	16,587	1,887	16,689	3,130
Total engaged in Trade	43,029	4,131	57,516	8,783

The sale of food, drink, &c., gives employment to more persons than any other subdivision, and the increase from 1891 to 1901 among those so employed was 60 per cent. Those dealing in textile fabrics, &c., chiefly drapers, came next; and then those dealing in animal and vegetable substances. The other groups are comparatively small. The last group includes many persons who were so imperfectly defined that they could not be classed elsewhere, and consequently are not comparable with the other subdivisions.

The persons engaged in all branches of commerce were as follows:—

Engaged in—	1891.		1901.	
	Males.	Females.	Males.	Females.
Finance and Property	7,262	650	8,985	1,783
Trade	43,029	4,131	57,516	8,783
Chance Events	233	.....	424	.....
Storage	313	1	172	1
Total, Commercial Class	50,837	4,782	67,097	10,567

TRANSPORT AND COMMUNICATION.

This class embraces all persons engaged in the transport of passengers or goods, or in effecting communication. The number so employed in 1891 and 1901 was as follows:—

Engaged in—	1891.		1901.	
	Males.	Females.	Males.	Females.
Railway Traffic (not construction)	7,114	143	9,493	238
Road Traffic (including Tramways)	12,256	24	13,050	56
Sea and River Traffic and the regulation thereof ...	10,456	57	15,318	107
Postal Service	1,875	253	2,644	517
Telegraph and Telephone Service	1,598	22	1,789	127
Delivery of Documents, Parcels, and Messages by hand	909	1	528	.....
Total, Transport and Communication	34,208	500	42,822	1,045

The persons engaged in railway and tramway traffic are practically all Government employees, as private railways employed only 218 men in 1901. The number included in the second group, as working in connection with tramways, in 1901, was 2,226. Among those engaged in sea and river traffic in 1901 were 4,929 wharf labourers.

THE DOMESTIC CLASS.

The Domestic Class embraces all persons employed in the supply of board and lodging, and in rendering personal services for which remuneration is usually paid. The numbers in each branch in 1891 and 1901 were as follows:—

Engaged in—	1891.		1901.	
	Males.	Females.	Males.	Females.
Supply of Board and Lodging... ..	7,777	10,132	8,258	15,622
Domestic Service and attendance (for which remuneration is paid)	9,927	28,117	11,870	37,068
Total, Domestic Class	17,704	38,249	20,128	52,690

This class contains the largest number of females, and includes nearly one-half the total number of female breadwinners. Among those engaged in the supply of board and lodging in 1901 were 15,326 hotelkeepers and servants, and 6,088 boarding-house keepers and servants. The second group included 33,904 house servants and 4,043 laundry workers and washerwomen.

THE PROFESSIONAL CLASS.

The persons in this class consist of those engaged in the Government and defence of the country, and in satisfying the moral, intellectual, and social wants of the people. The numbers engaged in these directions at the Census of 1891 and 1901 were as follows:—

Engaged in—	1891.		1901.	
	Males.	Females.	Males.	Females.
General Government	1,185	6	1,545	31
Local Government... ..	265	7	349	5
Defence	1,237	.....	3,511	.....
Law and Order	4,564	84	5,404	74
Religion, Charity, Health	4,015	3,027	5,580	4,817
Education, Art, Science	9,920	7,293	10,466	9,602
Total, Professional Class	21,186	10,417	26,855	14,529

It should be noted that the number shown as employed by the General Government does not represent the whole number in its service. As explained previously, the principle of the classification is to include Government employees in the orders to which they are most nearly related. The total number of those in the Government service in 1901 was about 32,000.

CHANGING RATIOS IN OCCUPATIONS.

A very general idea may be obtained from the preceding pages of the changes which have taken place in the distribution of labour during the ten years from 1891 to 1901. But a better idea of the way in which the types of occupation have fluctuated will be obtained from the following statement, which shows, at the two periods mentioned, the proportion of males per 1,000 breadwinners in each of the specified occupations, embracing the majority of trades in New South Wales:—

Occupation.	Males per 1,000 Breadwinners.	
	1891.	1901.
Supply of board and lodging	20	18
Domestic service and attendance	26	26
Engaged in finance and property	19	20
Dealers in textile fabrics, dress, &c.	13	15
Dealers in food, drinks, narcotics, &c.	33	43
Makers of art and mechanic productions	60	58
Makers of textile fabrics, dress, &c.	20	21
Makers of food, drinks, narcotics, &c.	20	26
Workers in metals and minerals	31	34
Construction of houses and buildings	62	52
Agricultural pursuits	174	168
Pastoral pursuits	71	69
Dairying pursuits	13	35
Mining pursuits	81	85
Other occupations	357	330
Total	1,000	1,000

The above table shows that the number of males working in connection with food, drinks, &c., both as makers and sellers, increased largely, also that the number engaged in dairy-farming increased. The number of workers in metals and minerals increased slightly, but those engaged in agricultural and pastoral pursuits, and in the building trades, declined.

GRADES OF OCCUPATIONS.

For purposes of comparison, and to distinguish employers from employees, breadwinners were divided into five grades, viz.:—(a) employers of outside labour; (b) persons engaged on their own account but not employing others for salary or wages; (c) relatives assisting in a business, but not receiving salary or wages; (d) wage-earners; and (e) unemployed. It was, however, found necessary to record those to whom the grade in the Census schedule was not applicable, as well as those who omitted to state whether they were employed or not.

The total number of the people in 1901, classified according to these grades, was as follows:—

Grade.	Males.	Females.	Persons.
Employers	48,920	4,933	53,853
Persons working on their own account	65,577	16,780	82,357
Relatives assisting	17,635	6,077	23,712
Wage-earners	290,203	72,190	362,393
Persons to whom classification according to grade does not apply	264,910	540,911	805,821
Unemployed	21,110	3,639	24,749
Not specified	1,650	311	1,961
Total	710,005	644,841	1,354,846

Employers, omitting mistresses of domestic servants, numbered 53,853. Wage-earners consisted of 362,393 persons; and deducting those engaged in purely domestic duties, Government employ, and naval and military service, the results indicate a considerable number of small employers. The average ratio of employers to workers was about 1 to 6.

Persons working on their own account (82,357) were exceedingly numerous, especially among the farming classes and those engaged in transport and commercial pursuits. Relatives assisting were engaged mainly in agricultural and pastoral pursuits, and do not form a very numerous class. Unemployed numbered 24,749, or about $4\frac{1}{2}$ per cent. of total breadwinners. At the Census a person was regarded as unemployed if out of work for more than a week immediately prior to the Census, but cases of leave of absence were excepted. Of the unemployed males, 2,753 were out of work through sickness, and 1,656 through old age; the remaining 16,701 could not be classified under either of these heads.

The proportion per cent. of breadwinners of each sex classified in each grade in 1901 was as shown below. The proportions in 1891, the first year in which this information was obtained, are also given:—

Grade.	1891.		1901.	
	Males.	Females.	Males.	Females.
Employer	14·0	3·0	10·9	4·3
Engaged on own account	13·0	15·8	14·5	14·8
Relative assisting... ..	2·3	8·4	3·9	5·4
Wage-earner	64·2	61·3	64·3	63·7
Not applicable	1·7	8·4	1·8	8·6
Unemployed	4·8	3·1	4·6	3·2
Total	100·0	100·0	100·0	100·0

AGES OF WORKERS.

A great advantage attaching to the record of the age of the workers is the information it affords regarding the employment of young persons. Of the male breadwinners, rather less than one-sixth were under the age of 20 years; and of the female breadwinners about one-fourth were under that age. Of the whole population under 20, more than four-fifths were dependents. The following table gives the number of breadwinners of each sex in various age-groups, their proportion per cent. to the total number in each group, and the proportion of each group to the total number of breadwinners:—

Age-groups.	Number of Breadwinners.		Proportion per cent. of total in each group.		Proportion per cent. of total Breadwinners.	
	Males.	Females.	Males.	Females.	Males.	Females.
Under 15	9,142	2,785	3·72	1·16	2·03	2·46
15—19	61,963	26,381	87·99	37·29	13·80	23·30
20—24	61,268	24,784	98·64	38·26	13·64	21·89
25—44	202,152	38,740	98·39	21·81	45·02	34·22
45—64	92,076	15,358	97·42	21·67	20·50	13·56
65 and over	22,496	5,181	84·07	26·57	5·01	4·57
Not stated	2,306	167	.....	.....	.....	.....
Total	451,403	113,396	63·75	17·59	100·00	100·00

Under the age of 15, less than 4 per cent. of males and about 1 per cent. of females are breadwinners; between 15 and 20 the number of workers increases rapidly, and between 20 and 25 the largest proportion of breadwinners of both sexes is found. Among males the proportion of breadwinners to the total in each group does not vary greatly between 20 and 65, but after 65 the number of breadwinners falls away. The largest proportion of female breadwinners is between 15 and 25; after 25 more women are married and the proportion decreases. The increase in the number of female breadwinners after 65 is more apparent than real, being due to the large number, probably widows, included therein, who are proprietors of houses and land or are of independent means.

The statement below shows for males the proportion per 1,000 in each age-group who were dependents or breadwinners, the latter being separated into primary producers, industrial workers, and all others:—

Age-group.	Breadwinners (Males).				Dependents.
	Primary Producers.	Industrial Workers.	All Others.	Total.	
Under 15	16	9	12	37	963
15—19	338	260	282	880	120
20—24	365	268	353	986	14
25—44	345	273	366	984	16
45—64	384	262	328	974	26
65 and over	378	172	290	840	160
All ages	238	173	227	638	362

The proportion of primary producers is much the same at all ages from 15 to 65. Among industrial workers and all others a maximum is reached between 25 and 45, the smallest proportion of industrial workers being at ages 65 and over, and of other workers at the extreme ages from 15 to 20 and over 65. The lowest proportion of dependents is at ages between 20 and 25, after which it rises slowly to age 65, and then increases largely.

The next statement shows the proportion of females per 1,000 in each age-group who are dependents and breadwinners, the latter being divided into those in the domestic class, and all others:—

Age-group.	Breadwinners (Females).			Dependents.
	Domestic Class.	All Others.	Total.	
Under 15	8	4	12	988
15—19	191	182	373	627
20—24	197	186	383	617
25—44	101	117	218	782
45—64	80	137	217	783
65 and over	47	219	266	734
All ages	82	94	176	824

At ages from 15 to 25, women in the domestic class are more numerous than all other workers combined, but from 25 to 45 the difference is not great, and after 45 the number of domestics decreases considerably. The proportion of dependents is at a minimum at ages between 20 and 25, after which it increases up to age 65, and then declines.

A statement is shown below of the persons permanently employed in the principal industries of the State since 1901. The figures relating to rural pursuits have been obtained from returns supplied by the landholders. In regard to the females engaged in agriculture and dairying, the great majority—probably about 60 per cent.—were only partly employed, the rest of their time being devoted to domestic duties. In the manufacturing industry, the hands in establishments where machinery is not used are excluded unless at least four persons are employed.

Year.	Agricultural.		Dairying.		Pastoral.	Mining.	Manufacturing.	
	Males.	Females.	Males.	Females.	Males.	Males.	Males.	Females.
1901	60,813	4,798	14,865	14,315	28,118	36,615	54,556	11,674
1902	61,057	5,261	13,293	11,148	27,862	33,695	54,326	11,943
1903	65,213	5,948	15,208	12,331	26,051	37,559	52,453	13,180
1904	63,111	5,742	17,641	13,750	27,886	37,837	53,457	14,579
1905	62,419	5,608	19,287	14,209	29,919	38,932	56,111	16,064
1906	63,448	5,715	21,476	15,626	32,598	42,546	59,979	17,843
1907	57,327	5,385	22,374	15,424	40,405	43,758	65,953	20,514
1908	55,324	5,409	24,887	16,908	39,625	38,965	67,616	21,482
1909	59,541	4,770	25,514	17,803	38,714	36,405	69,184	22,518

On the whole there has been a steady increase in the labour employed in all the principal industries during the nine-year period, with the exception of agriculture and mining. The decrease in agricultural labour is probably more apparent than real, as the production has increased considerably; but in many cases agriculture is associated with other rural occupations, and persons may be returned as engaged in farming in one year and in other rural pursuits in another year.

A noticeable feature of the table is the extension of female labour in the factories, the increase being over 90 per cent.; the increase in male labour has also been steady, though not so rapid. The effect of the low prices for metals is seen in the decline in the number of miners since 1907. The pastoral employees increased rapidly until 1907, but the figures for 1908 and 1909 are slightly below the number in that year; this decrease, however, has been counteracted by the increase in the other rural occupations, notably in dairying.

WAGES.

The period from 1880 to 1887 was, perhaps, the brightest in the State from the industrial standpoint, as at no period, except in the five golden years, 1853-57, were wages so high, and at no period was the purchasing power of money so great. During the interval to the end of 1891 there was little reduction in the nominal rate of wages in skilled trades, though for unskilled labour the rates experienced a decided decline. In 1893 there was a heavy fall generally, and the second half of that year marks the beginning of a new industrial period under vastly changed conditions. Prior to the banking crisis of that year wages had shown falling tendencies, and after the first shock there was a fall of about 10 per cent. in the wages of mechanics, and a somewhat greater fall in the wages of unskilled labourers. In 1894 there was no further fall, but employment becoming more restricted, there was a still further decline in 1895, the wages of the year for skilled workmen being 22 per cent. below the rates of 1892, and for unskilled labourers about 17½ per cent. During 1896 wages in several trades rose, and there have subsequently been some further advances, and generally more regular employment than at any

time since the bank crisis. In 1898, 1899, and 1900, employment in the building trades was plentiful, and the wages of masons, bricklayers, and allied trades rose to a point which they had not reached since 1889.

During the period under review there was a stoppage of nearly all forms of speculative activity; on the other hand, there was a marked extension of agriculture and important mining developments. The following were the average wages for the more important trades:—

Trade or Calling.	1893 (second half) and 1894.		1895.	1896.	1897.	1898.	1899.	1900.	1901.							
<i>Males, per day, without board and lodging.</i>																
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.						
Carpenters ...	9	6	8	0	8	6	9	0	9	6	10	0				
Blacksmiths ...	8	0	6	8	8	6	9	0	8	6	9	0				
Bricklayers ...	9	6	8	6	9	0	9	0	9	8	11	0				
Masons ...	8	6	7	8	9	0	9	0	10	3	11	0				
Plasterers ...	8	6	7	0	7	0	8	0	8	6	9	6				
Painters ...	8	0	7	0	7	0	8	0	7	0	9	0				
Boilermakers ...	9	0	8	0	8	6	10	0	10	1	10	3				
Labourers and navvies.	6	0	6	0	6	0	6	6	6	9	6	10				
<i>Males, per week, with board and lodging.</i>																
Farm labourers ...	12	6	12	6	12	6	13	6	14	0	13	6	16	3	17	6
<i>Females, per week, with board and lodging.</i>																
Housemaids ...	10	0	10	0	10	0	11	0	11	0	11	6	11	3	12	6
Laundresses ...	14	0	14	0	14	0	15	0	15	0	18	6	18	9	17	6
Nursemaids ...	7	6	7	6	7	6	7	6	7	6	7	0	7	0	7	0
General servants ...	11	6	11	6	11	6	11	6	11	6	11	0	11	0	14	0
Cooks ...	14	0	14	0	14	0	14	0	15	0	20	0	20	0	22	6

The federation of the States in 1901 gave greater opportunities both to capital and labour, and thus led to increased production. At the close of the year 1901 the Industrial Arbitration Act was passed, and under the awards of the Court many industrial workers now enjoy a fixed hourly or daily wage. With these advantages, and the beneficial influence exerted by good seasons, wages have been well maintained, the rate for unskilled labour—the lowest in the list—having risen to 8s. per day, as shown in the following table:—

Trade or Calling.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.					
<i>Males, per day, without board and lodging.</i>														
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.				
Carpenters ...	9	6	9	6	9	4	10	0	10	0				
Blacksmiths ...	9	0	9	0	9	0	10	0	10	0				
Bricklayers ...	11	0	11	0	11	0	11	0	11	0				
Masons ...	11	0	11	0	11	0	11	0	11	0				
Plasterers ...	10	0	10	0	10	0	10	0	10	0				
Painters ...	9	0	9	4	9	4	9	4	10	0				
Boilermakers ...	10	3	10	3	10	3	10	3	10	3				
Labourers and navvies	7	0	7	1	7	1	7	0	7	0				
<i>Males, per week, with board and lodging.</i>														
Farm labourers ...	16	0	16	0	16	0	15	0	15 to 20	20	0	20	0	20 to 25
<i>Females, per week, with board and lodging.</i>														
Housemaids ...	12	6	12	0	12	0	12	0	12 to 15	13 to 15	14 to 16	14 to 16		
Laundresses ...	17	6	17	6	15	0	18	0	20	15	20	17		
Nursemaids ...	11	0	11	0	10	0	10	0	6	6	12	6		
General servants ...	14	0	13	0	10	0	15	0	15	0	10	20		
Cooks ...	22	6	19	0	17	0	17	0	15	20	15	20		

MINIMUM WAGE.

Towards the end of 1908 the Minimum Wage Act was passed, which provides that from the 1st January, 1909, in respect of any person employed in any factory under the "Factories and Shops Act," or in preparing or manufacturing any article for trade or sale, or any shop-assistant as defined by the Early Closing Act, the minimum wage shall be not less than 4s. per week.

Overtime for the workman is any time worked beyond forty-eight hours per week, or after 6 o'clock in the evening, and for a shop-assistant after half an hour after the closing time of the shop.

When any boy under 16 years of age or any female is employed overtime after 6 o'clock in the evening a sum, not less than 6d., must be paid as tea money on the day such overtime is worked.

An amount not less than 3d. per hour must be paid for overtime to any boy under 16 years of age or any female; the full rate of time and a half, however, is to be paid in cases where, under the Factories and Shops Act, the overtime pay would exceed 3d. per hour.

Every employer must keep a record of overtime worked by such of his workmen or shop-assistants as are males under 16 years of age or females, and must produce such record and furnish extracts therefrom to an inspector appointed under this Act.

No person may pay or give or receive any consideration, premium, or bonus for the employing by him of any female in the manufacture of any article of clothing or wearing apparel.

Contraventions or breaches of the Act, or of the regulations, are reported to the Minister by inspectors, and punitive proceedings may not be instituted without the authority of the Minister.

Penalties may be recovered before a stipendiary or police magistrate, or before any two justices of the peace in petty sessions. Proceedings for recovery of any penalty must be commenced within three months after such contravention or breach.

The Act does not apply where all the persons employed as workmen and shop-assistants are members of the employer's family, related in the first or second degree by blood or first degree by marriage to the employer.

WORKMEN'S COMPENSATION ACT.

The Workmen's Compensation Act of 1910 came into operation on 1st January, 1911. It provides for compensation to workmen for injuries suffered in the course of their employment, and applies to employment in or about any railway, tramway, factory, workshop, mine, quarry, wharf, vessel, engineering or building work, except mines where benefits are afforded under the Miners' Accident Relief Act. Employers of less than four persons are exempt from the provisions of the Act. Casual workers are not entitled to benefits, nor is compensation payable in respect of injury which does not disable the workman for at least two weeks, or which is caused by misconduct of the workman.

Where death results from the injury the benefit ranges from £200 to £400 in the case of a workman with relatives wholly dependent on his earnings, and this amount is reduced proportionately if dependents are only partly dependent on him. If the workman leaves no dependents,

medical and funeral expenses up to £12 may be paid. Where total or partial incapacity results the employer must make a weekly payment, not exceeding 50 per cent., of the average weekly earnings during the preceding twelve months, up to a maximum of £1 per week, and a total liability to the employer of £200. In the case of employees under 21 years of age receiving less than 20s. a week, 100 per cent. of average earnings is substituted for 50 per cent., but the weekly payments must not exceed 10s. In the case of aged and infirm workmen the maximum amount of compensation may be reduced by agreement made between the employer and workman.

The Act also provides for the substitution for these benefits, by means of any scheme of compensation which the Registrar of Friendly Societies may certify as not less favourable to the workman and dependents than the corresponding scales contained in the Act.

IMMIGRATION.

State-assisted immigration was inaugurated in New South Wales in the year 1832, and continued until 1885. After an interval of twenty years, the policy was continued in 1905, and inducements are now offered to farmers, agricultural labourers, and domestic servants from Great Britain to emigrate to the State. The selection of assisted immigrants is made mainly from the populations of England, Scotland, Ireland, and Wales; but a proportion may be drawn from Canada, South Africa, and other parts of the British Empire, also from the United States of America, and European countries other than the United Kingdom, provided they are eligible under the Regulations of the Commonwealth Immigration Restriction Acts. The assisted immigrants must be under 50 years of age, of good character, and in general must afford satisfactory evidence that they are likely to prove suitable settlers. Assistance is given also in respect of their wives and families.

Arrangements have been made with various steamship companies for reductions in the ordinary rates for passages from the United Kingdom, Germany, Belgium, Italy, and other European countries. Besides these reductions a Government contribution of £4 is made on each full fare and £2 on each half fare, which may be increased to £6 on each full fare and £3 on each half fare in the cases of persons who settle on the soil, or engage in farm work or domestic service, immediately after arrival in New South Wales.

Nominees for assisted passages by friends or relatives in the State are granted a reduction of £4 on each full fare, which may be increased to £6 on their taking up farm employment. In the case of wives and families nominated in the State, a reduction of £9 per adult is made if the nominator is a farmer or farm labourer. Nominators are required to lodge the reduced steamer fare, on an undertaking that employment awaits the nominees or that adequate provision will be made for their maintenance. Any assisted immigrant who settles upon the land as owner, lessee, or labourer, within a reasonable time of his arrival, may be granted a remission of one-half the railway fare for himself and family when travelling to the district in which he has settled, and of one-half of the railway freight charged on his household furniture, stock, and agricultural implements. These concessions may be granted also to nominated immigrants proceeding to the homes of their nominators, or travelling to take up farm work or domestic service.

Since the 1st January, 1906, the following assisted immigrants have arrived:—

Class of Immigrant.	From United Kingdom.	From other British Possessions.	From other Countries.	Total.
Farmers	89	28	4	121
Farm labourers	4,801	99	17	4,917
Domestic servants	1,744	9	2	1,755
Others	631	245	.....	876
Families of above... ..	1,361	128	7	1,496
Nominated immigrants	6,529	146	81	6,756
Total	15,155	655	111	15,921

Of the unassisted immigrants, 5,093 have been placed in employment through the agency of the Immigration and Tourist Bureau.

Under the Commonwealth Contract Immigrants Act of 1905, any contract immigrant may land in Australia if the terms of the contract are in writing and have been previously approved by the Minister for External Affairs. Contract immigrants are prohibited only when, in the opinion of the Minister, the remuneration and other conditions of employment in the contract are not as advantageous to the immigrant as those current for workers of the same class at the place where the work is to be performed, or if the contract is made in respect of contingencies connected with an industrial dispute.

TRADE UNIONS.

Under the Trade Union Act of 1881 the term "Trade Union" is defined to mean "any combination, whether temporary or permanent, for regulating the relations between workmen and employers, or between workmen and workmen, or between employer and employers, for imposing restrictive conditions on the conduct of any trade or business, whether such combination would or would not, if this Act had not been passed, have been deemed to have been an unlawful combination by reason of some one or more of its purposes being in restraint of trade."

After the passing of the Act of 1881, the advantages of registration began to be realised by the existent unions, and on an average about ten unions per annum applied for enrolment during the first eight years. In 1890 the State experienced great industrial disturbances, and the trades were roused to activity, so that during the next two years 59 unions came into existence, 38 in 1890 and 21 in 1891. The force of the movement had then, however, spent itself, and during the nine years ended 1900, only 30 new bodies sought registration. In 1901 the Industrial Arbitration Act was passed, with the consequence that the unions once more became active, and during the years 1901 to 1909 no less than 196 new unions were formed. The total number of unions formed up to the end of 1909 was 368. Of these there were on that date 166, or 45 per cent., in existence, and 202, or 55 per cent., had disappeared by amalgamation, cancellation, or dissolution. It may be mentioned that out of 196 unions formed during the last nine years, 80 or 41 per cent., have already disappeared. The average duration of extinct unions has been about eight years.

The unions in existence at the end of 1909 are classified as follows, according to the industries or callings to which they are related:—

Group.	No. of Unions.	No. of Members.	Membership per cent. of Total.
Pastoral	5	35,395	27·8
Mining and smelting	21	20,548	16·1
Shipping and sea transport	12	12,677	9·9
Railways and tramways	6	15,008	11·8
Other land transport... ..	5	2,374	1·9
Food and drink	24	10,044	7·9
Clothing	7	3,072	2·4
Building trades	19	5,383	4·2
Engineering and iron trades	13	7,553	5·9
Printing, bookbinding, &c.	6	1,538	1·2
Other manufacturing	21	7,082	5·6
Other trades	27	6,728	5·3
Total	166	127,402	100·0

These figures show that the pastoral industry has by far the largest number of union members, their strength, relative to the total force of union workers, being 27·8 per cent., or over one-quarter of the whole; and, if the mining group, containing 20,548 members, or 16·1 per cent. of the total, be added to the pastoral group, to cover the primary producers, the resultant group represents 55,943 workers, or 43·9 per cent. of the union strength. Naturally, the strongest unions are found in these two groups, viz., pastoral and mining. The largest union of all is the Australian Workers' Union, with 28,521 members, and next in order of strength are the Colliery Employees' Federation, with 9,014 members, the Railway and Tramway, 5,730, and the Machine Shearers' Union, with 5,580 members. Following the primary industries, but embracing only about one-half the working force, is the transport group, including 30,059 workers, or 23·6 per cent. of the total; but this group has three subdivisions, viz., Sea Transport, including 9·9 per cent.; Railways, 11·8 per cent.; and Other Land Transport, 1·9 per cent.

The manufacturing trades, relatively to the total, are small. Primary production and transport together absorb 67·5 per cent. of the workers; 32·5 per cent. are distributed over all manufacturing and other trades; and the fact that no less than 43 out of 166 unions possess less than 100 members each emphasises, when compared with the Census distribution of population shown in the first table, the absence of consolidating forces and economy of administration, and the necessity for amalgamation of kindred interests.

The following statement shows the position of the unions at the end of the last three years, as regards finances and membership:—

	1907.	1908.	1909.
Unions existent, end of year	138	153	166
Total income	£98,508	£105,003	£148,202
Total expenditure... ..	£93,024	£102,402	£147,152
Total funds	£91,701	£90,278	£94,900
Membership	95,701	113,918	127,402
Income per member	£1 1s. 5d.	18s. 5d.	£1 3s. 3d.
Expenditure per member	£1 0s. 2d.	18s. 0d.	£1 3s. 1d.
Amassed funds per member	19s. 2d.	17s. 10d.	14s. 11d.

INDUSTRIAL UNIONS.

For the purposes of the Industrial Arbitration Act, passed on the 10th December, 1901, industrial unions of employers and of employees could be formed. The employment of not less than fifty persons entitled an employer or group of employers to registration, and any registered trade union or association of trade unions was entitled to registration as an industrial union of employees. The Industrial Arbitration Act remained in force until the 1st July, 1908, when the Industrial Disputes Act, 1908, commenced; but the expiration of the earlier Act did not affect the incorporation of industrial unions which had been registered under that Act. The following statement shows the membership of the registered unions, both employers and employees, during the currency of the Act of 1901:—

Year.	Employers' Unions.	Employees' Unions.
	Membership.	Membership.
1902	2,302	58,203
1903	2,916	63,510
1904	3,204	71,031
1905	3,343	78,665
1906	3,172	85,199
1907	3,229	96,581

INDUSTRIAL ARBITRATION.

The Parliament of New South Wales has given much attention to legislation having for its object the improvement of the industrial conditions of the people, settling trade disputes, and regulating the hours of employment, rates of wages, &c.

In the year 1892 the Trades Disputes Conciliation and Arbitration Act became law, and, as the preamble of the Act declares, it was believed the establishment of Councils of Conciliation and of Arbitration for the settlement of disputes between employers and employees would conduce to the cultivation and maintenance of better relations and of more active sympathies between employers and their employees, and be of great benefit in the public interest by providing simple methods for the prevention of strikes and disputes, from the effects of which industrial operations may suffer serious and lasting injury and the welfare and peaceful government of the country be imperilled.

As this Act did not require either party to a dispute to submit its case to the Council of Arbitration and Conciliation, nor even to abide by the award if a case were submitted, the desired objects were not attained, and although the Act remained in force four years very few cases were decided under its provisions.

The Conciliation and Arbitration Act of 1899 provided for the prevention and settlement of trade disputes. It authorised the Minister, in cases where a difference existed or was probable between an employer and employees, to direct inquiry into the causes and circumstances of the difference, and to take steps to enable the parties to meet together under the presidency of a chairman mutually selected, with a view to an amicable settlement. In the event of failure the Minister could direct a public inquiry into the causes of the difference, and on the application of either employers or employees, or of both, could appoint a board of conciliation. On the application of both parties an arbitrator could be appointed.

Parties to a dispute could not be compelled to submit their cases, and very few instances are recorded in which this Act was used.

The Industrial Arbitration Act, 1901, provided for the registration and incorporation of industrial unions and the making and enforcing of industrial agreements; constituted a court of arbitration for the hearing and determination of industrial disputes and matters referred to it; defined the jurisdiction, powers, and procedure of such court, and provided for the enforcement of its awards and orders. This Act remained in force until the 30th June, 1908.

In the year 1905 the Industrial Arbitration (Temporary Court) Act was passed. Under the provisions of this Act, if the Registrar, or in cases of appeal the Court, was satisfied that compliance had been made with the Act there could be registered, as an industrial union, any person or association of persons, or any incorporated company or any association of incorporated companies, who, or which had employed on an average taken per month not less than fifty employees; and any trade union or association of trade unions.

The industrial union could make an agreement in writing relating to any industrial matter with another industrial union or with an employer.

The Court had jurisdiction to hear and determine, according to equity and good conscience, industrial disputes and industrial matters, and to make orders or awards in pursuance of such hearing and determination. An industrial dispute was defined to be a dispute in relation to industrial matters arising between an employer or industrial union of employers and an industrial union of employees or trade union, including a dispute arising out of an industrial agreement.

The Act, in providing for the prevention of strikes and lock-outs, made it a misdemeanour for any person who, before a reasonable time had elapsed for a reference to the Court of the matter in dispute, or during the pendency of any proceedings in the Court in relation to an industrial dispute, did any act or thing in the nature of a lock-out or strike; or suspended or discontinued employment or work in any industry; or instigated to or aided in any of the above-mentioned acts.

With regard to industrial agreements a large number of employers and employees' unions entered into agreements under the provisions of this Act, and in some cases where disputes were not filed the Court made the agreements common rules of the industries.

It may be stated that the common rule was made to apply to persons other than the parties after notice to all known employers engaged in the industry. The object of the common rule is to place all employers on a similar footing, thus equalising conditions of employment and preventing unfair competition.

The Industrial Arbitration Act, 1901, was a tentative measure which was to remain in operation for seven years. Principally on account of the slowness of the Court in dealing with disputes, and the consequent congestion of cases, it was superseded on its effluxion by the Industrial Disputes Act, 1908.

INDUSTRIAL DISPUTES.

The Industrial Disputes Act, 1908, together with the Amending Acts of 1908, 1909, and 1910, provides that all awards, orders, and directions of the Court of Arbitration, and all industrial agreements current and in force at the commencement of the Act, are binding on the parties, and

on the employers and employees concerned for the period fixed by the Court, or by the award, order, or agreement, and where no period is fixed, for one year from the 1st July, 1908. Any industrial agreement may be rescinded or varied in writing by the parties, and if filed with the Registrar is binding as part of the agreement.

Provision is made under this Act for the registration of trade unions, and the expiration of the Industrial Arbitration Act, 1901, does not affect the incorporation of industrial unions registered under that Act.

With regard to industrial agreements, any trade union registered under this Act may make a written agreement with an employer relating to any industrial matter.

The Industrial Court consists of a judge sitting with assessors, if necessary.

Constitution and powers of Boards.

On application to the Industrial Court by—

- (a) an employer or employers of not less than twenty employees in the same industry; or
- (b) a trade union registered under the Act having a membership of not less than twenty employees in the same industry; or
- (c) an industrial union whose members are such employers or employees; or
- (d) where there is no trade or industrial union of employees in an industry having membership and registered as aforesaid, or where such union fails to make application, then not less than twenty employees in such industry;

the Court may recommend the Minister that a board be constituted for such industry, and the Minister may direct a board to be constituted accordingly.

The Minister, on the recommendation of the Industrial Court, but without any application, may also direct that a board be constituted.

Each board consists of a chairman and not less than two (nor more than four) other members, as determined by the Industrial Court, one half of whom are employers and the other half employees who have been or are actually engaged in any industry or group of industries for which the board has been constituted. Where the employers or employees consist largely of females, the Court may order that all or any specified number of the members of a board need not have the qualifications.

Wherever it appears necessary, the chairman of a board may appoint two or more assessors representing employers and employees respectively, to advise the board on technical matters, but such assessors may not take part in the deliberations of the board.

Each member of a board and each assessor, upon appointment, must take an oath not to disclose any matter or evidence relating to trade secrets; to the profits or losses or the receipts and outgoings of any employer; to the books of an employer or witness produced before the board; nor to the financial position of any employer or of any witness.

Jurisdiction of Boards.

Proceedings before a board are commenced by—

- (a) reference to the board by the Industrial Court of any dispute; or
- (b) application to the board by employers or employees in the industry or group of industries for which the board has been constituted.

Such applications must contain the particulars prescribed and be signed by—

- (a) an employer or employers of not less than twenty employees in the same industry; or
- (b) not less than twenty employees in the same industry; or
- (c) the secretary of a trade union registered under this Act, having a membership of not less than twenty employees in the same industry; or
- (d) an industrial union whose members are such employers or employees.

A board with respect to the industry or group of industries for which it has been constituted may—

- (a) decide all disputes;
- (b) fix the lowest prices for piece-work, and the lowest rates of wages payable to employees;
- (c) fix the number of hours and the times to be worked in order to entitle employees to the wages so fixed;
- (d) fix the lowest rates for overtime and holidays and other special work, including allowances as compensation for overtime, holidays, or other special work;
- (e) fix the number or proportionate number of apprentices and improvers, and the lowest prices and rates payable to them. Such prices and rates may be according to age and experience;
- (f) appoint a tribunal, other than the board itself, for the granting of permits allowing aged, infirm, or slow workers, who are unable to earn the lowest rates of wages fixed for other employees, to work at the lowest rates fixed for aged, infirm, or slow workers. If no such tribunal is provided by the board, the Registrar has jurisdiction to grant such permits;
- (g) determine any industrial matter;
- (h) rescind or vary any of its awards;

subject to the right of appeal under the Act, and to such conditions and exemptions as the board is authorised to determine. The award of a board is binding on all persons engaged in the industry or group of industries within the locality specified for the period fixed—not less than one nor more than three years. Every award of a board takes effect on its publication in the *Government Gazette*.

Procedure of Boards.

Where reference to a board is made it is the duty of the chairman to endeavour to bring about a settlement of the dispute, and to this end the board must expeditiously and carefully inquire into the dispute and all matters affecting it.

A board or any two or more of its members may enter and inspect any premises used in any industry the subject of a reference or application to the board and any work being carried on there.

The board may admit and call for such evidence as in good conscience it thinks to be the best available, whether strictly legal evidence or not. The question as to the admissibility of evidence is decided by the chairman alone.

Unless by consent of the chairman, no person may appear as an advocate or agent unless he is actually and *bonâ-fide* engaged in the industry or in one of the industries for which the board has been constituted.

Appeal from Board.

At any time within a month after publication of any award by a board, any trade or industrial union or any person bound by the award may apply to the Industrial Court for leave to appeal to such Court.

Enforcement of Awards and Penalties.

Where an employer employs any person to do any work for which the price or rate has been fixed by a board or by the Industrial Court, or for which the price or rate has been fixed by an award of the Court of Arbitration or by an industrial agreement, he is liable to pay in full to such person the price or rate so fixed.

If any person does any act or thing in the nature of a lock-out or strike, or takes part in such, or suspends or discontinues work in any industry, or instigates to or aids in any of the abovementioned acts, he is liable to a penalty not exceeding one thousand pounds or in default to imprisonment not exceeding two months.

If any person commits a breach of an award of a board, Court of Arbitration, or of the Industrial Court, or a breach of an industrial agreement, he is liable to a penalty not exceeding fifty pounds or, in default, imprisonment.

An employer is liable to a penalty should he dismiss an employee by reason merely of the fact that the employee is a member of a board or of a trade union or an industrial union, or has absented himself from work through being engaged in other duties as member of a board. When a member of a trade or industrial union is convicted of an offence against the Act, the Industrial Court may order the trustees of the trade union or of a branch thereof, or the industrial union, to pay out of the funds of the union or branch any amount not exceeding twenty pounds of the penalty imposed.

Every employer in an industry in respect of which an award of a board or of the Court of Arbitration, or an industrial agreement is in force must keep time-sheets and pay-sheets of the employees in such industry, and such time-sheets, etc., may be examined by an inspector who reports to the Registrar.

At the end of January, 1911, 181 boards had been constituted under the Act. Of these, 44 have been dissolved.

OPERATIONS OF INDUSTRIAL COURT.

The operations of the Industrial Court for the year ended 30th June, 1909, covered applications for the constitution of 105 boards, of which 100 were recommended; in the following year 44 applications were made and 38 recommended. Industrial boards thus constituted made 45 awards in the year 1908-9, and the Industrial Registrar dealt with 163 cases incidental to awards.

In 1909-10, 102 awards were made, 35 varied, and 20 awards of the Arbitration Court were re-enacted, and the Registrar dealt with 520 cases. In the Industrial Court, for breaches of awards, 31 convictions were obtained, and 26 cases were withdrawn or dismissed. In two cases convictions were obtained in regard to lock-outs, and in five cases in regard to strikes. The expenditure for boards, apart from administration, for the year ended 30th June, 1910, amounted to £13,113, including £6,569 for chairmen's fees, and £5,168 for members' fees.

The statement below shows the principal boards constituted under the Industrial Disputes Act, 1908, to 30th October, 1910, and the duration of the awards made. The awards which have expired have been excluded. Full details of these awards are to be found in the "Statistical Register."

AWARDS OF WAGES BOARDS, 1908-10.

Industry and Class of Employee.	Duration of Award.		years.
	From.	Period.	
Aerated Waters—County of Cumberland only	April, 1910		1 $\frac{3}{4}$
Bakers	July, 1909		1
Baking—			
Bread-carters	Aug., "		21 $\frac{1}{2}$
Newcastle Bakers	July, 1910		3
" Bread-carters	Oct., 1909		3
Biscuit and Cake Makers	Mar., 1910		3
Bootmaking	July, 1909		1
Breweries	Dec., 1908		3
Bricklayers	Oct., 1910		3
Brickmakers	May, "		3
Brushmakers	" "		1
Butchering, Retail—			
Armidale, Tamworth, and other adjoining Districts...	June, "		2
Bathurst and District	Feb., "		2
Goulburn, Albury, and other adjoining Districts	July, "		2
Newcastle and District	" "		2
Sydney and District	Jan., 1908		3
Butchering—Wholesale Carters	Nov., 1909		2 $\frac{5}{12}$
Cement Workers—Portland	Dec., "		3
Cigarmakers	Oct., 1910		2
Clothing—			
Cutters and Trimmers	Sept., 1909		3
Male Pressers	July, "		2
Tailors and Tailoresses making garments to measure or from chart	Aug., "		3
Coachmaking—			
Rail	Oct., 1910		2 $\frac{5}{12}$
Road	Dec., 1909		3
Coke-works—Illawarra	Aug., 1910		2
Cold Storage—			
Inside Cold Storage Hands	July, 1909		1 $\frac{3}{4}$
and Ice Manufacturers—Metropolitan	Sept., "		1 $\frac{7}{12}$
Confectionery	Mar., "		3
Coopers	Feb., 1910		21 $\frac{1}{2}$
Electrical Trades...	June, "		3
Council of City of Sydney	June, "		3
Engine Drivers and Firemen—Coast	Oct., 1909		3
Farriers	July, "		3
Fellmongers, and Wool and Basil Workers	Mar., "		2
Furniture Trade	Sept., "		1 $\frac{1}{2}$
Glass Works	Jan., "		2
Government Railways and Tramways—			
Car	Oct., "		3
Electrical Trades	June, 1910		3
Examiners	" 1909		3
Locomotive Labourers	Aug., "		3
Permanent Way	Nov., 1910		3
Quarry	Sept., 1909		3
Traffic Wages [Staff (Porters)	Dec., "		2
" (Ticket Collectors, Examiners, Guards, &c.)	Feb., 1910		1 $\frac{1}{2}$
Government Tramway Employees—			
Electrical Staff of Tramway Service	Dec., 1908		3
Permanent Way Tramway Employees	July, 1909		2
Running Staff of Tramway Service	Dec., 1908		3

Industry and Class of Employee.	Duration of Award.	
	From.	Period.
Hairdressers and Wig-makers	Aug., 1909	3 years.
Hotels, Club, and Restaurant Employees	April, "	3
Hotel and Restaurant Employees, Newcastle	Aug., 1910	3
Iron Trades—		
Ironworkers' Assistants	July, 1909	1
Lithgow	Mar., "	3
Stove and Piano Frame-makers	July, "	1½
Jam-making	Feb., "	2
Laundries—		
Metropolitan	July, "	1
Newcastle	May, "	2
Metropolitan Water and Sewerage Board—		
General Workers	July, 1910	3
Milk Industry—		
Carters	Oct., 1909	3
Dairy Employees	When price of prime dry lucerne remains £4 per ton for one week.	
Milling (Grain)	Dec., 1909	2
Newcastle Collieries—		
Newcastle and Maitland Workers, not miners... ..	Mar., 1910	3
Painting	July, 1909	2
Newcastle	Oct., "	2½
Paper-mills	Dec., "	3
Pastrycooks	Aug., "	3
Picture-framers	Sept., 1910	2
Plasterers	Nov., "	3
Plumbers and Gasfitters—Cumberland	Dec., 1909	2½
Printing		
Bookbinders and Paper-rulers	Mar., "	2
Compositors, Linotype and Monoline Operators (hand composition)	July, "	3
Compositors and Operators (machine composition)	Mar., 1910	3
Letterpress Machinists	" "	1½
Professional Musicians	Aug., 1909	3
Saddlery and Harnessmaking	July, "	2
Saw-mill Employees—		
Country	Aug., 1910	2
Metropolitan and Newcastle	Dec., 1909	1½
Rous and Richmond	Nov., "	3
Shipping—Ferry	Dec., "	2½
Shop Assistants—		
Metropolitan Retail Grocers	July, "	1½
Metropolitan	Oct., 1910	1½
Pharmaceutical	Aug., 1909	3
Soap and Candle Makers	Sept., "	3
Southern Collieries—		
Engine Drivers	Aug., "	3
Miners	" 1910	3
Storemen and Packers—		
Drug Warehouse	" "	3
Metropolitan Skin and Hide	Sept., 1909	2½
Public Bonded and Free Stores	Jan., "	2
Wool and Station Produce	Sept., "	3
Stone-cutters—		
Monumental Workers and Assistants	June, "	2
Stonemasons	Oct., "	3
Sydney Municipal Council Employees—Labourers... ..	July, "	3
Tanning	Sept., "	3
Trolley Draymen... ..	Oct., "	2½
Goulburn	Jan., 1910	2
Newcastle	" 1909	2
Coal Carters	Mar., "	2½
Timber Carters	July, "	1½

Industry and Class of Employee.	Duration of Award.	
	From.	Period.
Tilelayers	Oct., 1910	3 years.
Tip-carters	Jan., 1909	2 $\frac{1}{2}$
Undertakers	Nov., "	3
Cab and Livery Stables (cabmen)	May, 1910	2
" " (Commercial Buggy Drivers and Livery Stable Employees) ...	June, "	3
Unskilled Labourers—		
Building	Nov., 1909	3
United Labourers	May, 1910	2 $\frac{1}{2}$
Water and Sewerage Board Contractors	Aug., "	2 $\frac{3}{4}$
Waterside Workers—Deep Sea Wharf Labourers	Nov., "	3
Western Collieries and Shale Mines—		
Shale Miners	Dec., 1909	2 $\frac{3}{4}$
Coal "	Jan., 1910	2
Wicker Workers—Cumberland and Northumberland	April, "	3
Wine and Spirit Stores	Aug., 1909	2 $\frac{1}{2}$
Wire-mattress Workers	" "	2
Wire-netting Workers—		
Manufacturing Wire-netting	Sept., "	3
Galvanizing	Dec., "	2 $\frac{3}{4}$
Wood and Coal Labourers	Aug., 1910	3
Wood Workers—		
Carpenters and Joiners	July, "	3
Ship Joiners and Carpenters	Mar., "	3
Wool-classers	June, "	3

There are 117 awards shown in the above statement, and the periods of duration vary as follows:—1 year and under 2, 16 awards; 2 years and under 3, 42 awards; and 3 years, 58 awards. In the award of the Dairy Employees' Board, the period is not defined.

The object of the industrial legislation which has been enacted in New South Wales is to render strikes unnecessary; but, though a large measure of success has resulted from the operation of the various Acts, the absolute elimination of strikes from industrial operations has not been secured, since during 1909 two strikes of some importance were declared, one by miners of Broken Hill and the other by the coal-miners in the State.

Stringent provisions are embodied in the Industrial Disputes Act, 1908, and in its amendments, notably that of 1909, which was introduced towards the close of the year to cope with the extensive strike in the coal-mining industry. Heavy penalties are attached to any offence against the 1908 Act, as has been shown; but its discipline met with opposition from a section of the community to whom strikes appeal as the readiest means of redress of all grievances; and in spite of the prohibition and penalising of strikes and lock-outs, a strike was declared during 1909 which involved all the coal-fields of the State—Northern, Southern, and Western—thus temporarily paralysing the industry.

Negotiations for a conference proved abortive, and to cope with the position an amendment of the Industrial Disputes Act was passed, providing for the heavier penalty of twelve months' imprisonment for any attempt to instigate or aid in anything in the nature of a strike or lock-out or discontinuance of work in any industry. Power is given to officers of police to enter buildings, by force if necessary, and to seize documents,

when there is reasonable ground for the belief that such buildings are being used for the purpose of fostering the continuance of a strike or lock-out. Where the strike or lock-out relates to a necessary commodity, which is defined as including coal, gas, water, or any article of food, the deprivation of which may tend to endanger human life or cause serious bodily injury, the Act provides that meetings intended to foster such a strike or lock-out shall be illegal, and persons taking any part in such meeting are liable to imprisonment for twelve months.

Further, a penalty of £500 attaches to any attempt to restrain the trade of the State in a necessary commodity, or to monopolise or combine against it to the detriment of the public. These regulations have been enacted with a view of rendering strikes impossible, and of eliminating them entirely as disturbing factors in industrial relations.

In 1910 a number of strikes occurred, but they were of short duration. The most noteworthy was that of the slaughtermen at Glebe Island Abattoirs, the result of a dispute with the carcass butchers. This strike commenced in August and continued for about two months, when it was settled by the concession of the slaughtermen's demands.

In this connection it may be of interest to quote the measures which have been taken similarly in other countries, as Canada and the United States, to secure industrial peace and to settle disputes.

In Canada a coal-miners' strike at Lethbridge, Alberta, lasted from March till December, 1907, resulting in a general dislocation of industry and of transport facilities. As the result of investigations, in this and previous disputes in other industries, concerning the effect of intervention in settling differences, the Industrial Disputes Investigation Act was passed in 1907, to promote the interests of the whole people and provide machinery for the settlement of disputes, and the prevention of strikes and lock-outs primarily in mines and public utility industries. The prominent feature of this Act is its recognition of strikes and lock-outs as necessary accompaniments of industrial differences, and its insistence that before such a strike or lock-out can be legally declared in a dispute affecting any industry connected with a mine or public utility, the differences in question must be submitted to a Board of Conciliation and Investigation established under the Act. By this means the parties to a dispute are brought face to face, and a conference and discussion secured. The administration of the Act is in the control of the Minister of Labour, and its provisions, which prescribe penalties for infringement of its various requirements, may be made applicable to disputes other than those affecting mines or public utilities. The awards of the board are made obligatory and binding on the parties, and the measure is giving considerable satisfaction, having secured the settlement of many disputes without loss of time or money or disturbance of industries.

In the United States, Bureaux of Mediation exist, of which the Bureau of Mediation and Arbitration in the State of New York is an example. From the State Bureau, whenever a strike or lock-out threatens or occurs, an officer, or the Board of Mediation, is sent to endeavour to effect an amicable settlement of the difference. Disputes may be submitted for arbitration and mediation, and the board has the powers of a court of record. Controversies may also be submitted to local arbitration, by a board endowed with power to summon and hear witnesses, and to submit decisions to the Bureau. The Bureau aims at preventing disputes by promoting such industrial relations as will make their rupture impossible. It is recognised that once a rupture

occurs it can rarely be remedied till one or other of the disputants is exhausted, and the experience of the Bureau teaches that the best method of establishing and maintaining friendly relations between employers and employees is a system of joint conferences or trade agreements, based on mediation. Till 1907 arbitration was regarded as the great remedy for all industrial evils; but since that date the composition of the board has been changed, and emphasis is now placed upon mediation and conciliation. Compulsory arbitration is regarded as useless without compulsory obedience to awards. It is argued that men will not voluntarily abide by an adverse judgment of arbitration, and enforcement of awards entails loss of liberty alike for workmen and employers. Therefore this reasoning, which is the basis of every form of conciliation, is adapted to local conditions in each State, in Canada, and in other countries.

UNEMPLOYMENT.

Unemployment in any community may be traced to one of three causes:—

- (a) Disability to perform work.
- (b) Inability to find employment.
- (c) Compulsory cessation of work, arising from trade disputes.

In the first category are found those who from incapacity incidental to extreme youth or old age must necessarily be dependent on others for subsistence, also those of other ages who are mentally or physically deficient. These types necessarily must be relegated to either national or eleemosynary sustentation.

The third cause involves considerations of strikes and lock-outs, concerning which many theories and plans have been broached and ventilated since labour questions have become the subject of scientific inquiry. The most modern method of treatment of this cause is to be found in legislative enactments constituting authoritative tribunals for free inquiry and awards in settlement.

The above two causes present problems which admit of solution, although a remedy has not yet been found which is acknowledged universally to be successful, and only with respect to the other cause, dearth of work, is it to be admitted that real difficulty exists as to resolution of the problem. The more the question is studied, the more plainly does it appear that a multitude of factors are at work in our civilisation, of which the existence is readily admitted, but the remedial measures are not so readily perceptible. And while the much desired means of prevention of this cause of unemployment are being sought, it is eminently desirable to relieve the sufferers from its effects.

To afford relief to those who are able-bodied, but who cannot obtain employment, the State has instituted a Labour Bureau, which commenced operations in the year 1900. The scope of the operations of this Bureau is such as to secure a proper distribution of labour according to the urgency of the requirements of the employer and of the employee, thus relieving the congestion in one place by regarding the scarcity in another locality.

Free registry offices have been established in Sydney and in the principal country centres. Thus the supply of labour is regulated, and assistance is given to applicants to proceed to employment available in other parts.

Men seeking employment are registered at the Bureau, but as many names remain on the books for some time after the applicants have found

suitable employment through other agencies, the number on the register does not represent a condition of unemployment. Men who actually and urgently require work must renew their registrations once during each month, and from this list of eligible persons the labour wanted is drawn as required.

Labour is graded under three heads—Professional, Skilled Labourers, and General (or unskilled) Labourers. On the 31st December, 1910, the numbers on the list of persons eligible were as follows:—

Professional and Clerical	4
Skilled Labourers and Artisans	139
Unskilled Labourers... ..	130
Total	273

During the year 1910, 3,599 persons were assisted and sent to work; the following figures indicate on broad general lines the species of employment found for them:—

Private Work	2,221
Government Work	242
Labour Farms	1,000
Instructional Farm	136
Total	3,599

The functions of the Labour Bureau extend to the provision of a Labour Depot at Randwick and a Casual Labour Farm at Pitt Town. At Randwick a farm has been established where destitute men unable to maintain themselves are given lodging, food, and a small money allowance in exchange for work. The period of residence must not exceed three months, and, whenever possible, the men are sent to employment with private persons. At Pitt Town men are received on similar conditions. They also acquire some training to fit them for various kinds of employment to which they may be transferred.

The Government Training Farm at Pitt Town is also under the direction of the State Labour Bureau. At this institution city lads may qualify for farm work, a course of three months being provided free of cost. On the completion of their course students are assured of immediate engagement as the demand for them is greatly in excess of the supply.

The Bureau collects and disseminates information concerning labour conditions in all centres throughout the State. The reports received from the various agents for the year 1910 show that in the primary industries agricultural and pastoral employment was very satisfactory; mining was affected by the coal strike in the earlier months, and by the low prices of metals.

At the beginning of the year 1909 a very large number of persons were out of employment, mainly on account of the shortage of coal which affected all classes of labour. Since the resumption of work in the mines the conditions in nearly all trades have been most favourable. In the city and suburbs there was a remarkable activity in the building trades; the iron, maritime, and furniture trades all showed great improvement during the last six months, and the prospects at the end of the year were exceptionally bright.

The statement previously given shows that, though the Bureau is prepared to deal with all classes of labour, its main business concerns the distribution of manual labour, skilled or unskilled. A private institution endeavours to regulate clerical labour, to which body the greater portion of the unemployed of the professional class would naturally gravitate.

The following figures show the extent of out-of-employment benefits granted to members of the institution:—

Year.	Mean Membership.	Aggregate Benefits.
1905	362	£ 261
1906	456	245
1907	491	212
1908	579	330
1909	706	211

The meagreness of the detailed information available in regard to unemployment, and the difficulty in relating the facts to each other, render the above particulars unsatisfactory, but they serve to show that, viewed absolutely, the degree of real unemployment in the State is very small.

INDUSTRIAL LEGISLATION.

During recent years much attention has been given, by means of Parliamentary enactments, to economic measures for the advancement of the industrial classes of the community. The history of industrial legislation in New South Wales may be reviewed, according to the stages of life concerned, in four groups, affecting infancy, youth, manhood (specific and general), and old-age. Legislation affecting other than the years of manhood, having only a remote influence upon industry, the prominent and essential enactments which regulate industrial conditions will naturally be found in the classification relating to manhood, and embracing the working years of life. Following the lines of this classification, a brief statement is given of the number of enactments in each group, and of the particular subjects which have received attention.

Infancy and Youth.—Eighteen enactments are included in this section, they relate to the protection, custody, and education of children generally, the care of neglected and destitute children, the control and reformation of juvenile offenders against the law, the control and supervision of apprentices, and young people generally.

Manhood (Specifically).—This is a section of considerable importance, which is best reviewed under the headings of the various industries which embrace the principal classes of labour, as shown in further detail below:—

- (a) *Agricultural.*—Twenty-one enactments relate to the financial assistance of settlers, the supervision of fruit pests, and the extension of agriculture.
- (b) *Pastoral.*—Twenty enactments embrace regulations for the protection of pastures, the prevention of diseases in stock, and the conservation of water for pastoral purposes.
- (c) *Mining.*—Enactments, numbering eighteen, are concerned with the regulation of mining on private and Crown lands, the promotion and control of mining companies, the relief of persons injured in accidents, the inspection of mines, and the safeguarding of miners' interests.
- (d) *Shipping.*—Six enactments relate to the duties of masters, and the rights and privileges of apprentices and seamen, and the control of navigation.
- (e) *Other.*—Four enactments embrace regulations affecting persons employed in the forestry and fishing industries.

Manhood (Generally).—This section is of primary importance, and embraces all matters relating to the health, food, drink, and general welfare of the community. Considered in these aspects the 147 enactments included are distributed in the following subsections:—

- (a) *Food, Drink, Health.*—Thirty-three enactments regulate the sale and supply of meat, milk, bread, liquors, poisons, &c., the spread of disease, control of inebriates, and other such matters which have material influence on the health of the community.
- (b) *Industrial Conditions.*—Thirty-six enactments relate to points of primary importance in the promotion of trade. The legislation affects immigration, the restriction of Chinese and other alien races, the liability of employers, settlement of trade disputes, limitation of working hours, compensation for injuries and accidents, and the accommodation and protection of employees.
- (c) *General Welfare and Protection.*—The seventy-eight enactments contained in this section relate to the formation and regulation of labour settlements, erection of trade institutes, provision of working-men's homes, protection of wages of workmen, control of gaming and wagering, limitation of vagrancy, prevention of crime, regulation of debts and loans, extension of local government, and adult suffrage, &c.

Old-Age.—Provision for this stage of life is met by seventeen enactments, dealing with sustentation in sickness and old-age by pensions, with the supervision of friendly societies, and the extension of subventions to friendly societies; the regulation of insurance societies—fire, life, and marine; and of building and co-operative societies.

A chronological enumeration of the particular laws enacted reveals the fact that the earliest subjects to receive treatment were such as related to industrial conditions and safeguards in trade. The sequence of treatment of individual trades placed shipping in the first rank, followed in order by retail trading, mining, agricultural, and pastoral industries. In regard to the helpless stages of life, youth received consideration as being proximate to the working years, before the extremes of infancy and old-age, which were more remotely concerned with the industrial problems.

The scope of the reforms affected by recent laws is considerable; and the extent to which the citizen is educated and tended has afforded material assistance to the deterrent forces which diminish crime and promote good citizenship and industrial peace.

Recent Legislation.—An enumeration of the enactments affecting industrial life passed during the last five years is given below under the headings referred to in the previous section:—

<i>Infancy and Youth</i>	...	...	...	1906	...	Free Education.
<i>Manhood (Specifically)—</i>						
<i>Agricultural, Pastoral, &c.</i>	...	...	...	1906	...	Barren Jack Dam and Murrumbidgee Canals Construction, Closer Settlement (Amendment), Government Savings Bank, Pastures Protection (Amendment), Vine and Vegetation Diseases, Water and Drainage and Artesian Wells (Amendment).
"	"			1907	...	Closer Settlement (Amendment), Department of Agriculture Establishment.
"	"			1908	...	Crown Lands (Amendment).
"	"			1909	...	Closer Settlement (Amendment), Crown Lands (Amendment).
"	"			1910	...	Closer Settlement Promotion, Crown Lands (Amendment).

Manhood (Specifically)—continued—

<i>Mining</i>	...	...	...	1906	...	Mining.
"	...	...	...	1907	...	Mining (Amendment).
"	...	...	...	1908	...	Coal Mines Regulation (Amendment).
"	...	...	...	1910	...	Miners' Accident Relief.
<i>Other...</i>	...	...	...	1908	...	Grass-tree Licenses.
"	...	...	...	1909	...	Forestry.
"	...	...	...	1910	...	Fisheries.

Manhood (Generally)—

<i>Food, Drink, Health</i>	...	...	...	1906	...	Hunter District Water and Sewerage (Amendment), Illawarra Suburbs Sewerage Construction, Sydney Abattoir Construction.
"	"	...	...	1907	...	Liquor (Amendment).
"	"	...	...	1908	...	Private Hospitals, Pure Food.
"	"	...	...	1909	...	Inebriates (Amendment).
"	"	...	...	1910	...	Diseased Animals and Meat (Amendment), Lithgow Sewerage.

<i>Industrial Conditions</i>	...	...	...	1906	...	Banks and Bank Holidays (Amendment) Early Closing (Hairdressers).
"	"	...	...	1908	...	Industrial Disputes (and Amendment), Minimum Wage, Scaffolding and Lifts (Amendment).
"	"	...	...	1909	...	Factories and Shops, Industrial Disputes (Amendment).
"	"	...	...	1910	...	Clerical Workers, Industrial Disputes (Amendment), Saturday Half-holiday, Workmen's Compensation.

<i>General Welfare and Protection</i>	...	...	...	1906	...	Careless Use of Fire, Companies (Amendment), Gaming and Betting and Amendment, Local Government, Local Government Extension, Parliamentary Elections, Second-hand Dealers and Collectors, Sydney Corporation (Amendment).
"	"	"	...	1907	...	Companies (Amendment), Gaming and Betting (Amendment), Poor Prisoners Defence.
"	"	"	...	1908	...	Local Government (Amendment), Police Offences (Amendment), Prisoners Detention, Sydney Corporation (Amendment).
"	"	"	...	1909	...	Aborigines Protection, Fire Brigades, Motor Traffic.
"	"	"	...	1910	...	Crimes (Girls Protection), Fire Brigades (Amendment), Parliamentary Elections (Second Ballot).

<i>Decline of Life, Sickness, and Old-age</i>	...	...	...	1906	...	Friendly Societies (Amendment), Police (Superannuation).
"	"	"	...	1907	...	Invalidity and Old-age Pensions.
"	"	"	...	1908	...	Subventions to Friendly Societies.
"	"	"	...	1910	...	Railway Service Superannuation.

THE INDUSTRIAL LAWS OF NEW SOUTH WALES.

A list of the industrial laws now in force in New South Wales is given below, with a brief analysis of each Act. The provisions of a number of these Acts, which have for their object the amelioration of the conditions of the industrial workers, have been discussed in various parts of this volume, including those relating to Industrial Disputes, Minimum Wage, Workmen's Compensation, Friendly Societies and Trade Unions, Advances to Settlers, Closer Settlement Promotion, and the Mining and Miners' Accident Relief Acts.

The indenturing of apprentices is regulated by the Apprentices Act of 1901, which prohibits the apprenticeship of any child under 14 years of age, and fixes the maximum term of apprenticeship at seven years. The hours of labour are limited to forty-eight per week, and provision is made for the settlement of disputes between employer and apprentice. The Factories and Shops Acts also contain special clauses relating to child labour. Children under 13 years may not be employed, and those under 16 years must be subjected to medical examination and obtain a certificate of fitness.

The provisions of the Factories and Shops Acts, 1896 and 1909, apply to all employees in establishments where at least four persons are engaged, or where machinery is used. The working hours are defined, and overtime, for which special payment must be made, is restricted. The employers must make adequate arrangements for the ventilation and sanitation of buildings, and for safeguarding the machinery in order to minimise the risk of accidents to the workers.

The Early Closing Acts of 1899 and 1900 provide for a weekly half-holiday for all shop assistants, the shops, with a few necessary exceptions, being required to close at 1 o'clock on one week-day, and at 6 o'clock on four days. At the commencement, the Early Closing Act applied only to the Metropolitan and Newcastle districts, but the Act has since been extended to many country districts. In the two districts named, each shop-keeper was given the option of allowing the half-holiday on either Wednesday or Saturday; in the country, all the shop-keepers in each district were required to close at 1 o'clock on a day which was fixed in accordance with local conditions. By the operation of the Saturday Half-holiday Act, passed in 1910, Saturday has been proclaimed as the statutory half-holiday for all shops in the Metropolitan and Newcastle districts and in the County of Northumberland; and the provisions of the Act may be extended to country districts by proclamation issued by consent of both Houses of Parliament.

The Coal Mines Regulation and the Mines Inspection Acts relate to the workers in mines—the former in coal, and the latter in all other mines. Strict regulations have been made to ensure the safety of the miners; persons in control of the mines, or in charge of the machinery, must hold certificates of competency; inspectors have been appointed to enforce the regulations dealing with the ventilation, safety appliances, and escapes, and the exercise of proper precautions in the use and storage of explosives. The employment underground of boys under 14 years, and of females, is prohibited.

The Seamen's Act regulates the engagement and discharge of seamen, the payment of their wages, the provision of proper food and medical comforts, the treatment of deserters and other offenders against discipline.

Amongst other laws relating to specified occupations are the Shearers' Accommodation Act of 1901; and the Clerical Workers Act of 1910, which enables any employer of ten clerks, or ten clerks in similar employment, to apply for an award under the Industrial Disputes Act.

Compensation to workmen for injuries received whilst at work is regulated by the Employers' Liability Act of 1897, and the Workmen's Compensation Act of 1910. Under the earlier enactment, damages may not be obtained unless the workmen can prove negligence on the part of the employer or of his servants; on the other hand, the Workmen's Compensation Act is limited to certain workmen, but applies to all accidental injuries, such occurrences being regarded as part of the trade risks.

List of Acts affecting the Industrial Classes

<i>Act.</i>	<i>Date.</i>	<i>Act.</i>	<i>Date.</i>
Advances to Settlers ...	1899, 1902	Industrial Disputes ...	1908, 1910
Apprentices ...	1901	Labour Settlements ...	1902
Attachment of Wages Limitation	1900	Liquor (abstract)...	1898, 1905
Bankruptcy (abstract) ...	1898	Master and Servants ...	1902
Banks and Bank Holidays (abstract) ...	1898, 1899, 1906	Miners' Accident Relief	1900, 1904, 1910
Blockholders ...	1901	Mines Inspection ...	1901
Building and Co-operative So- cieties ...	1902	Minimum Wage ...	1908
Butchers' Shops Sunday Closing	1902	Mining ...	1906, 1907
		Motor Traffic ...	1909
Clerical Workers ...	1910	Police Offences (Abstract)	1901
Closer Settlement Promotion ...	1910	Poor Prisoners Defence ...	1907
Coal Lumpers' Baskets ...	1900	Railway Service Superannuation	1910
Coal Mines Regulation	1902, 1905, 1908	Registration of Firms ...	1902
Companies (abstract) ...	1906	Saturday Half Holiday ...	1910
Contractors' Debts ...	1897	Scaffolding and Lifts ...	1902
Crimes (abstract)...	1900, 1905	Seamen's ...	1898
Early Closing ...	1899, 1900, 1906	Second-hand Dealers and Collectors	1906
Employers' Liability ...	1897	Shearers' Accommodation ...	1901
Factories and Shops ...	1896, 1909	Subventions to Friendly Societies	1908
Forestry (abstract) ...	1909	Trade Unions ...	1881
Free Education ...	1906	Truck ...	1900, 1901
Friendly Societies ...	1899, 1900,	Workmen's Compensation ...	1910
	1901, 1903, 1906		
Grass Tree Licenses ...	1908		

Analysis of Acts.

ADVANCES TO SETTLERS, 1899.

Sale of Inscribed Stock.

1. The Treasurer may sell inscribed Stock—maximum £500,000.
2. Conditions of sale.
3. Redemption after twenty years, by Governor.
4. Interest, 3½ per cent., payable half-yearly.
5. Stock certificates to be issued.
6. Transfer of Stock.
7. Specific application of moneys raised.
8. Power to Trustees to invest in this Government Stock.

Application of Money Raised.

9. (1) Application of moneys: temporary advances to landholders, including mortgagors.
(2) Conditions governing advances and repayments.
10. Applicants for advances to disclose prior encumbrances.
11. Register of advances, to be available for inspection.
12. Application of repayments of advances and interest to Consolidated Revenue Fund.

Machinery.

13. Constitution of Board for administering this Act.
14. Regulations to be made.
15. Short title.

ADVANCES TO SETTLERS (AMENDMENT), 1901.

2. Amendments, section 9 (d) and (g), Principal Act.

ADVANCES TO SETTLERS (AMENDMENT), 1902.

2. Amendment, section 1, Principal Act.
3. Amendment, section 4, Principal Act.
4. Amendment, section 9 (d), Principal Act, limiting advances to a maximum of £1,500.

APPRENTICES, 1901.

Preliminary.

2. (1) Repeals. (2) Savings.
3. (1) Interpretation. (2) Exceptions as to professions.

Masters and Apprentices.

4. Age limitations.
5. Orphan apprentices,
6. Certain child may be bound, notwithstanding parental desires.
7. Parent may apply for custody of such apprentice.
8. Justices may bind as apprentices children in respect of whose maintenance an order has been made.
9. Failing father, mother, or guardian, justices may act.
10. Any person resident and trading in New South Wales may take apprentices.
11. Government officials may take apprentices.
12. Company managers may take apprentices.
13. Three months' probation, before completion of indenture.
14. Assignment of indentures, by masters or executors.
15. Expiry of apprenticeship by effluxion of time on attainment by apprentice of age 21, or on marriage (with consent) of a minor.
16. Hours of labour: maximum forty-eight hours per week, savings as to farming, husbandry, and domestic service.

General.

17. Court may settle disputes and award costs.
18. (1) Absence of apprentice with out leave, and proceedings thereon. (2) Warrant may be issued and security ordered.
19. Penalty in case of transfer or discharge of apprentice without his consent.
20. Enticing, employing, or harbouring apprentices. Penalty.
21. Procedure under this Act; application of moneys recovered.
22. Exemptions from imprisonment, of apprentices under age 16, or of female apprentices.
23. Supervision of orphan apprentices.
24. Appeals against conviction or order.
25. Saving as to construction, subject to Act 71, 1900 (Justices Acts Amendment).

Schedules.

1. Repealed Acts.
2. Form of indenture.
3. Assignment of indenture.

ATTACHMENT OF WAGES LIMITATION, 1900.

1. Wages or salary not exceeding £2 per week shall not be subject to order for attachment; and in case of wages or salary exceeding £2 per week orders for attachment shall apply only to the excess amounts.

BANKRUPTCY, 1898.

48. (1 and 2) Priority of debts; wages or salary to a maximum of £50, for services rendered within six months of the sequestration order, to rank equally *inter se*, and be paid in full, or abated in equal proportions.
49. (1) Preferential claim of apprentice or articled clerk in recovery of proportion of premium; sequestration order to rank as discharge of indenture or article.
(2) Official assignee or trustee may transfer indentures or articles.
78. Filing of periodical statements showing realisation and distribution of assets.
114. Exclusion of limited companies.
125. Savings of Rights under Life Assurance Act.

BANKS AND BANK HOLIDAYS, 1898.

Part III.

14. Bank holidays (as per Schedule 4) to be close holidays.
16. Obligations falling due on a bank holiday shall apply to the day following.
17. Special bank holidays.
18. Veto by proclamation of a bank holiday.

BANKS AND BANK HOLIDAYS (AMENDMENT), 1899.

1. Certain declared bank holidays not falling on Monday may be postponed to the following Monday.

BANKS AND BANK HOLIDAYS (FURTHER AMENDMENT,) 1906.

2. Seven days' notice to be given of special public holidays.
3. Anniversary Day (26th January) exempted from postponement to Monday (*vide* above).
4. Reference in industrial or other agreements to a public or bank holiday, shall be deemed to relate to the day on which the holiday is publicly observed.

BLOCKHOLDERS, 1901.

2. Definitions.

Leases of Small Blocks for Working Men.

3. Land may be set apart and leased: conditions.
4. Qualifications of lessees.
5. Forfeiture for default.
6. Residence.
7. Impounding rights.
8. Reports by Board.
9. Fund to be created for advances, out of Public Funds.
10. Advances: conditions.
11. Applications for advances.
12. Repayment of advances.
13. Extension of time for repayments.
14. Interest, 5 per cent.
15. Agreements.
16. Breach of conditions.
17. Subleases and mortgages to be void.
18. Endorsement as homestead block.
19. Effect of endorsement in protecting lease.
20. Application of proceeds of repayments.
21. Accounts.
22. Penalty for fraud or misrepresentation.
23. Governor to make regulations.

BUILDING AND CO-OPERATIVE SOCIETIES, 1901.

2. Repeal (Friendly Societies Act, 1873, parts IV and V).
(Friendly Societies Amendment Act, 1900, section 6).
Savings as to Societies registered.
3. Savings as to contracts, &c.
4. (1) Registrar. (2) Documents. (3) Fees.
5. Interpretation.

Part I.—Benefit, Building, Loan, and Investment Societies.

6. Purposes for which such societies may be established; rules; shares.
7. Provisions in the rules.
8. Proviso as to dividends.
9. A society may receive money by way of bonus on shares.
10. Forms of conveyance, &c., may be specified and scheduled.
11. Receipts of trustees to act as reconveyances.
12. Evidence of appointment of trustees; efficacy of signed copy of resolution.
13. Application of certain provisions.
14. Dissolution of societies; procedure; division of funds; discharge at law and in equity to trustees and other officers; claims of members; penalty for unlawful determination of society.
15. Appropriation of funds may be referred to award of Registrar, who may also investigate in case of alleged insufficiency, and give an award; notice in writing to be sent to officers prior to investigation.
16. Registrar's award to be conclusive; expenses to be paid out of society's funds.
17. Award of dissolution to be advertised, and to operate after three months, if not opposed.
18. Registrar's annual report to contain particulars of award.
19. Societies may amalgamate, or transfer engagements; votes of absent members.
20. Appointment of trustees.
21. Minors may be elected as members, and execute instruments, &c., but not hold office.
22. Society to furnish correct lists of charges payable by members; such charges to be alterable by resolution of three-fourths of the members.

23. Buildings may be purchased or leased for holding meetings; receipt in writing of trustees to be a legal discharge; moneys spent in purchasing, &c., shall be raised as provided in rules.
24. Property of societies vests in trustees, and on death or removal, in succeeding trustees; efficacy in action of statement of property as so vested.
25. Trustees may bring or defend actions, and such action shall not be abated by the death or removal of a trustee.
26. Limitation of trustees' responsibility to moneys actually received by him on account of such society.
27. Proceedings: officer may be made defendant by his name and title—no abatement or prejudice by death, resignation, or removal. Summons may be served at place of business of society.
28. Treasurer and other officers to give security; bond to be conditioned for just and faithful execution of office and given to trustees, who are officers empowered to sue upon it.
29. The treasurer to account.
30. Recovery of property on decease or bankruptcy of officer.
31. Returns.
32. Penalty for default.

Part II.—Co-operative Trading and Industrial Societies.

33. Constitution.
34. Provisions in rules.
35. Certificate effects in corporation.
36. Certificate to vest property in society.
37. Change in registry.
38. Name not to resemble that of another society.
39. Limitation of members' interest.
40. Display of name.
41. Penalty for misrepresentation.
42. Registered office.
43. Notification.
44. Signature, and effect, of rules.
45. Winding up.
46. Dissolution not to exclude winding up.
47. Liability of present and past members.
48. Members right to dispose of interest by nomination.
49. Members right to inspect books.
50. Annual returns.

Part III.—General Provisions.

51. Taking money prior to registration.
52. Rules to be submitted to Registrar and certified.
53. Alteration of rules.
54. Notice of change of place of business.
55. Circulating false rules.
56. Rules in evidence.
57. Punishment of fraud in withholding money, &c.
58. Settlement of disputes.
59. Reference to District Court.
60. Enforcement of District Court orders.
61. Disputes between members of non-registered societies to be settled according to Act.
62. Society may be constituted as a company.
63. Power to change name.
64. Recovery of penalties.

Schedules.

1. Repeal.
2. Fees.
3. Certificate of registration of rules.
4. Certificate of change of name.
5. Form of bond.

BUTCHERS' SHOPS SUNDAY CLOSING, 1902.

2. Repeal (Act 47 Vic. 8).
3. (1) Butchers' shops within the Metropolitan Police district shall not be kept open for the sale of meat between the hours of 12 on Saturday night and 12 on Sunday night.
- (2) Penalty.

CLERICAL WORKERS, 1910.

2. Definition.
3. (1) Application to Industrial Court—minimum wage to be fixed—classification of clerical labour—overtime.
(2) Aged, infirm, or slow workers.
4. Duration of award being one to three years.
5. Provisions of Industrial Disputes Act, 1908, shall apply, subject to this Act with regard to jurisdiction.
6. Regulations to be made by Judge of Industrial Court.

CLOSER SETTLEMENT PROMOTION, 1910.

2. Definition.

Approval of Applicant and Valuation of Land.

3. Application by purchasers of private lands to bring lands under the Act.
4. Valuation of land.
5. Valuation below purchase price fixed.
6. Change in number or personnel of applicants.
7. Surrender by vendor to Crown.

Vesting of Land in Purchaser.

8. Land to vest as settlement purchase; conditions.

Loans and Securities.

9. Loans by Government Savings Bank.
10. Repayment by instalments.
11. Liability of minor as mortgagee.
12. Maximum amount of loan.
13. Extension, sections 5, 47, and 50 of Government Savings Bank Act, 1906.
14. Limit of total annual advances by Bank.
15. Advances on improvements.
16. Forfeiture of holdings.
17. Issue of grant.

General and Supplemental.

18. Application of proceeds of debentures to advances.
19. Deposit of moneys set apart for advances and not required.
20. Deficiency in reserve fund of Bank.
21. Reference to Advisory Board.
22. Suspension of proclamation.
23. Statements to Parliament.
24. Regulations to be made.

COAL LUMPERS' BASKETS, 1900.

2. Maximum inside dimensions and weight of baskets, viz., 23 inches diameter at top, 19 inches in depth, 16 inches diameter at bottom, and maximum 30 lb. in weight.
3. Penalty on conviction of coal lumper infringing, or any person causing infringement of, this regulation.
4. Adjudication of offences, and recovery of penalties.
5. Interpretation.
6. Commencement of Act.

COAL MINES REGULATION, 1902.

2. Repeal. Savings.
3. Interpretation of terms.

Part I.—Mines Regulation.

Certificated managers, under managers, and engine drivers.

4. Appointment of manager compulsory; registration of persons qualified; penalty for working without a manager; permits from inspectors.
5. Daily supervision to be exercised by manager or under-manager; certification of under-manager; disqualifications for post of manager or under-manager.
6. Certificates of competency for managers and under-managers; constitution of board for appointing examiners; appointment and removal of members; proceedings and power of board; reports.
7. Rules as to examinations.
8. Grant of certificates of service to existing managers and under-managers.
9. Certificates after examination; register of certificates.
10. Inquiry as to competency; cancellation of certificates.
11. Costs of inquiry.

12. Records to be made of cancellations; restorations.
13. Copy of certificates in case of loss.
14. Expenses in relation to certificates and application of fees.
15. Penalty for forgery of, or false declaration as to certificate.

Inspection.

16. Existing inspectors continued.
17. Appointment of inspectors; certificates required.
18. Disqualifications for inspectorship.
19. Powers of inspectors; penalty for obstruction.
20. Notice by inspector of causes of danger not expressly provided against.
21. Annual reports of inspectors.
22. Special reports of inspectors.
23. Formal investigation of accident at Minister's direction.
24. Publication of reports.

Arbitration.

25. Provisions as to arbitration in disputes between owners and inspectors.

Coroners.

26. Provisions as to Coroners' inquests on deaths from accidents in mines.

Returns, plans, notices, and abandonment.

27. Annual returns to be made by owner or agent; publication of aggregate statistics.
28. Plan of mines and workings, &c., to be kept at office of the mine.
29. Notice to be given of accidents in mines.
30. Notice to be given of opening and of abandonment of workings.
31. Fencing in case of abandoned mine.
32. Plan of abandoned mine or seam to be supplied to Minister.
33. Service of notices.

Employment of boys and females.

34. Prohibition of boys under 14 years, and of females.
35. Limitation of working hours, and regulations as to employment of boys.
36. Penalty for employment of persons in contravention of the Act.

Wages.

37. Prohibition of payment of wages at places connected with sale of spirituous or fermented liquors.
38. Payment of employees by weight of mineral obtained; regulations.
39. Owner or agent may be summoned for wages due not in excess of £50.
40. Appointment and removal of check weigher on behalf of employees of mine.
41. Remuneration of check weigher.
42. Inspection of weights, &c., used in mines.

Single shafts.

43. Prohibition of single shafts.
44. No agreement shall preclude compliance with the Act.
45. Exceptions from provisions as to shafts.

Division of mine into parts.

46. Separate workings; notice; directions; reference to arbitration.

Part II.—Rules.

General rules.

47. Ventilation of mines: ventilation by fire; by machinery; stations and inspections of conditions as to ventilation; inspection of machinery above and below ground; fencing of entrances; withdrawal of workmen in case of danger; use of safety lamps in certain places; construction and examination of safety lamps; lamp stations; use of explosives below ground; water and bore holes; signalling and manholes for travelling planes worked by machinery; manholes for other travelling roads; manholes to be kept clear; dimensions of travelling roads; fencing of shafts; trolley over pit mouth; fencing of entrances to shafts; securing of shafts; sinking pit to be clear of gas; securing of roofs and sides; timbering; option of using downcast shaft; attendance of engine-man; means of signalling for working shafts; overwinding; cover over head; chains; prevention of rope slipping on drum; brake and indicator; fencing machinery; safety valves and gauges for boilers; barometers and thermometers; stretchers; wilful damage; observance of directions; books of records and rules; copies; periodical inspection of mine on behalf of workmen; inexperienced persons prohibited from employment in coal getting; interference with office of check inspector or check weigher.
48. Directions of inspectors against inexperienced employees.
49. Non-compliance with rules; penalty.

Special rules.

50. Special rules to be formulated for every mine.
51. Formulation of new special rules.
52. Minister's objection to special rules.
53. Amendment of special rules.
54. False statements and neglect to transmit for approval.
55. Certified copies in evidence.
56. Special rules made by Governor.

Publication of Abstract of Act and of Special Rules.

57. Abstract of Act and of special rules to be posted up and supplied to employees.
58. Pulling down or defacing notices.

Part III.—Supplemental.

Legal Proceedings.

59. Offences.
60. Penalty.
61. Imprisonment for wilful neglect endangering life or limb.
62. General provisions as to summary proceedings.
63. Liability for misrepresentation as to age, &c.
64. Prosecution of owners, agents, managers, &c.
65. Report to inspector of result of proceedings against workmen.
66. Saving for proceedings under other Acts.
67. Owner of mine or agent or relative, &c., not to act as justice, &c., in proceedings under this Act.
68. Application of fines.

Miscellaneous.

69. Savings as to repealed enactments.
70. Decision to lie with Minister of question whether a mine is under this Act.
71. Making and revoking orders: power of Minister.
72. Entry on adjoining mine to ascertain if owner is encroaching; authority; prior statutory declaration compulsory; penalty.

Schedules.

- I. Repeals.
- II. Proceedings of boards for appointing examiners.
- III. Scale of fees for certificates.
- IV. Returns.

COAL MINES REGULATION (INSPECTION), 1904.

2. Amendment, section 47 (39), Principal Act.

COAL MINES REGULATION (AMENDING), 1905.

2. Penalty on unqualified person taking charge of machinery.
3. Examinations of winding-engine drivers' certificates of competency; granting certificates; fees.
4. Granting certificates of service.
5. Winding engineers, and their certificates: operations of sections 10, 11, 12, 13, 14, and 15 of Principal Act extended to cover.
6. Certificates granted outside New South Wales to engine drivers; effect of such certificate.
7. Register of holders of certificates.
8. Holders of certificates to be deemed registered under Mines Inspection Act, 1901.
9. Amendment, section 47 (25).

COAL MINES REGULATION (AMENDING), 1908.

2. Appointment of electrical inspector.
3. Penalty upon unqualified persons being employed as mine electrician; certificate of competency.

COMPANIES (AMENDMENT), 1906.

7. Foreign companies to register.
9. Lists of debenture and stock holders to be made.
10. Lists and balance-sheet to be filed.

EMPLOYMENT AND ARBITRATION.

CONTRACTORS' DEBTS, 1897.

2. Repeal. (Schedule I.)
3. Workman or tradesman suing a contractor may obtain a certificate of cause of debt.
4. Certificate not to be given if workman could have had a lien.
5. Certificate to be for not more than sixty days' wages.
6. Limit of action.
7. Process for obtaining payment of debt out of moneys due to contractor.
8. Service of notice to operate as assignment of moneys due to contractor.
9. After service contractee to pay proved debt out of moneys due to contractor.
10. Priority of assignments; in order of service of notice on contractee; equal rating of notices served within seven days of first notice.
11. If contractee fail to pay, workman or tradesman may sue for moneys assigned.
12. Assignment to cease to operate upon satisfaction of debt.
13. Discharge to be signed, on receipt of money.
14. Moneys may be attached, after notice of action served on contractee.
15. Mode of obtaining leave to serve notice.
16. Proceedings after judgment.
17. Contractor to furnish information as to contractee: penalty.
18. Contractor liable for wages or moneys due by sub-contractor.
19. Savings as to rights and remedies.

CRIMES, 1900.

155. Definition of clerk or servant.
156. Larceny by clerk or servant.
157. Embezzlement.
158. Manipulation of accounts by clerk or servant.

CRIMES (AMENDMENT), 1905.

2. Fraudulent misappropriation of moneys collected or received.

EARLY CLOSING, 1899.

Part I.—The Closing of Shops.

Shops not mentioned in Schedule I.

Metropolitan and Newcastle districts.

1. Closing times: option of shopkeeper.
Country districts.
2. Each municipality, outside Metropolitan and Newcastle districts, to be country shopping district.
3. Closing times.
4. Memorial for alteration of days; poll; provision for second poll.

Shops mentioned in Schedule I.

5. Part I.—Closing time; Shopkeepers' option.
6. Parts II, III, IV.—Closing time.

General Penalties.

7. Shops to close and be kept closed; savings; pharmacists exempted.

Part II.—Shop Assistants and Carters.

8. Overtime employment of shop assistants prohibited (shops excepted from Schedule I); savings; records to be kept; penalty.
9. Hours of work of assistants in shops listed in Schedule I; half-holidays; penalties.
10. Butchers' and milk vendors' carters weekly half-holiday; bakers' carters monthly holiday.

Part III.—Supplemental.

11. Governor may alter boundaries of shopping district.
12. Appointment of inspectors.
13. Powers of inspectors.
14. Obstruction of inspectors.
15. Penalty for offences.
16. *Prima facie* evidence of employment, in case of prosecution.
17. Release of shopkeeper upon proof of real offender.
18. Regulations to be made.
19. Informations for offences; appeals.
20. Mixed trading shops.
21. Definitions.
22. Time assumption for Broken Hill and Sturt.
23. Exemptions of certain establishments.
24. Savings as to Factories and Shops Act, 1896.
25. Commencement and short title.

Schedules.

1. Special shops.
2. Petition for alteration of closing times.
3. Definition of Metropolitan shopping district.
4. Definition of Newcastle shopping district.

EARLY CLOSING (AMENDMENT), 1900.

Preliminary.

2. Definition.

Closing times.

3. Repeal, sections 3 and 4, Principal Act; insert closing times of shops in country shopping districts; memorial for poll.
4. Proclamation of country shopping districts.
5. Closing of newsagents and booksellers' shops.
6. Closing time in Newcastle shopping district.
7. Shopkeepers occupying more than one shop.
8. Closing times in case of holiday occurring: shop assistants, minors, and carters.
9. Amendment, section 8 (1), Principal Act.
10. Assistants may be employed for extra hours in lieu of holiday on full pay.
11. Half-holidays in hotels, restaurants, &c., and hairdressers' shops.
12. Bread-carters' monthly holiday.
13. Regulation of half-holidays or holidays for carters; repeal, section 10.

Supplemental and exemptions.

14. Regulations to be made.
15. Amendment, section 23, Principal Act.
16. Amendment, section 21, Principal Act.
17. Proof of closing.
18. Suspension of operation of Act in certain cases.
19. Exemption of bazaars.

EARLY CLOSING (HAIRDRESSERS' SHOPS), 1906.

Preliminary.

Hairdressers' shops.

2. Amendment, section 1 (1), Principal Act.
3. Repeal, section 5, Principal Act.
4. Amendment, section 8 (1), Principal Act.
5. Amendment, section 9 (1), Principal Act.
6. Amendment of definition, section 21, Principal Act.
7. Repeal, Part I, Schedule I.
8. Amendment, sections 3 and 4, Early Closing (Amendment), 1900, No. 81.
9. Amendment, section 6, Early Closing (Amendment), 1900, No. 81.
10. Amendment, section 8, Early Closing (Amendment), 1900, No. 81.
11. Amendment, section 10, Early Closing (Amendment), 1900, No. 81.
12. Amendment, section 11, Early Closing (Amendment), 1900, No. 81.
13. Penalty for doing work for customer after closing time.

Shopkeepers.

14. Liability of shopkeeper sub-leasing shop for less than one week.

EMPLOYERS' LIABILITY, 1897.

2. Repeal.
3. Interpretation.
4. Right to compensation for personal injury.
5. Limitations.
6. Notice of injury; commencement of action; absence of notice of injury no bar if reasonable excuse adjudged.
7. Defective notice may be amended.
8. Form of notice; defect or inaccuracy no bar unless adjudged prejudicial to defence.
9. Service of notice, at residence, or place of business, or by post.
10. Limit of sum recoverable as compensation.
11. (i) Money paid as penalty to be deducted from compensation.
(ii) No penalty shall be recoverable under any other Act for any injury, for which action has been brought.
(iii) Expenses paid by employer on account of injury to be deducted from compensation awarded.
12. Employer entitled to credit for insurance effected by him.

Schedule.

Repeals.

FACTORIES AND SHOPS, 1896.

2. Interpretation (*vide* also section 2 of Factories and Shops Amendment Act, 1909).
3. Application; exemptions.

Part I.—Appointment of Inspectors, Registration and Inspection of Factories, and Inspection of Shops.

4. Inspectors may be appointed.
5. Existing factories to be registered.
6. New factories to be notified and registered.
7. Powers of inspectors.
8. Occupiers to allow entry and inspection.
9. Obstructing inspectors: penalty.
10. Inspector to produce certificate of appointment.
11. Forged certificates: penalty.

Part II.—Records.

12. Occupier to keep records regarding employees; copy of Act and regulations to be posted up.
13. Scale of wages and piece-work rates to be supplied to Minister on demand.
14. Occupiers to keep and supply records for inspectors, of outside workers: penalty.
15. Definition of occupier and out-worker.
16. Inspectors not to divulge records.
17. Inspectors to make annual reports to Minister.

Part III.—Sanitary Arrangements.

18. Factories to be kept clean and well ventilated.
19. Periodical renovation and cleaning of factory interior; papered walls; records of dates of renovation, &c.
20. Exemptions: power of Minister to make exemptions.
21. Bakehouses not to be used as sleeping places; outhouses; penalty.
22. Meals: provision of dining rooms.
23. Ventilation; humidity; inspector's directions.
24. Seating accommodation for females.
25. Avoidance of infection from disease in factories dealing with wearing apparel.

Part IV.—Fencing of Machinery and Protection from Fire.

26. Traversing carriage of self-acting machine: limit of projection.
27. Liability of employer for injury caused by act or default of person in charge of boiler.
28. Dangerous machinery to be fenced.
29. Safeguards; inspectors' directions.
30. Prohibition of use of dangerous machinery.
31. Hoists and lifts to be protected: prohibition of unsafe or dangerous elevators or lifts.
32. Restriction on employment of females, and males under 18 years.
33. Notice of accidents in factories.
34. Doors to open outwards; provision for fire extinguishers and fire escapes; arbitration in case of occupiers' objections to Minister's requirements.

Part V.—Ages of Factory Employees, and Certificates.

35. Children not to be employed; special permission for children over age 13.
36. Intervals for meals for females, and males under 18 years.
37. Limitation of hours of work; extensions in certain cases; records of overtime.
38. Restriction of employment, in certain dangerous trades.
39. Certificates of fitness and of age, in certain dangerous trades; production of certificates by employer.
40. Limitation of working hours of young persons: special exemptions.
41. Incapacitation of workers under age 16: prohibition by inspector.
42. Employment of females.

Part VI.—Shops.

43. Regulation of hours of work of young persons; penalty on occupiers for contravention.
44. Governor to make regulations.

Part VII.—Miscellaneous.

45. Contraventions of Act to be reported; authority of Minister required for prosecution
46. No occupier to contract with employee against his liability.
47. Recovery of penalties.
48. Service of order, notice, or summons.
49. Failure to conform to requirements: penalty.

50. Employment contrary to Act: penalty.
51. Liability of parents.
52. Proof of age: onus on employee.
53. Forged certificate and false declaration: penalty.
54. Exemption of occupier from fine on conviction of actual offender.
55. Governor to make regulations.

FACTORIES AND SHOPS (AMENDMENT), 1909.

2. Amendment, section 2, Principal Act.
3. Amendment, section 6, Principal Act.
4. New sections—6A. Penalty for occupation of unregistered factory. 6B. Notification by inspector of defects in building; appeal by occupier to Minister; determination of appeal; order by Minister on appeal; prohibition by Minister, of use of factory.
5. Amendment, section 7.
6. Amendment, section 12.
7. Amendment, section 24.
8. New section—24A. Minister may order occupier to provide dressing rooms for females
9. Substitution. Section 25. Avoidance of infection in factories or shops dealing with wearing apparel, or issuing materials.
Insertion. Section 25A. Premises occupied in connection with factory to be open to inspection. Section 25B. Nuisances punishable under other Acts, to be notified by inspector.
10. Amendment, section 28.
11. Amendment, section 30.
12. Amendment, section 34 (3), provision of external fire escapes.
13. New section—35A. Minister may prohibit employment of women, and males under age 16, in undesirable occupations.
14. New subsections—Section 37. Notice of overtime working; records; proof of exigency of trade; limitations; penalty.
15. Amendment, section 40.
16. New section—42A. Restriction of hours of employment in Chinese or other furniture factories; prohibition as sleeping place: evidence in prosecution; suspension of operation of this section to meet exigencies of trade.
17. Amendment, section 45.
18. New section—56. Matters to be provided for by regulation.

FORESTRY, 1909.

14. Licenses to be granted to obtain timber and other products.
17. Sawmills to be licensed and books kept.
18. Royalties on timber.
19. Royalties on products.
20. Permits to graze or to occupy.
23. Transfer of licenses.

FREE EDUCATION, 1906.

(To be construed with the Public Instruction Act, 1880.)

1. Commencement of the Act.
2. Education in primary and superior public schools to be free.
Repeal of section 11
Amendment of section 27 } of the Public Instruction Act, 1880.

FRIENDLY SOCIETIES, 1899.

Registry Office.

1. Institution of office.
2. Functions of office.
3. Salaries and expenses.
4. Registrar's annual report.
5. Deposit of documents, and keeping of records.

Registry of Societies.

6. Societies to be registered.
7. Conditions of registration.
8. Name of society.
9. Acknowledgment of registry.
10. Appeal from refusal of registry.
11. Amendment of rules.
12. Societies disentitled to registry.

Societies with Branches.

13. Conditions of registry of societies with branches.
14. Establishment of new branches.
15. Previous provisions to apply to branches.
16. Conditions of registry of branches as societies.
17. Name of seceding or expelled branch.
18. Contributions from one society to another.

Consequence of Registry.

19. Recovery of subscriptions.
20. Registered office.
21. Authority of registrar to inspect books.
22. Appointment of trustees.
23. Annual audit of accounts.
24. Annual returns.
25. Quinquennial report, and valuation.
26. Inspection of balance sheets, &c.
27. Remuneration of actuary.
28. Binding effect of rules of authorised societies.

Privileges of registered Societies.

29. Exemptions from stamp duty.
30. Transfers of stock.
31. Priority on death or bankruptcy of officer.
32. Membership of minors.
33. Subscription to hospitals.

Rights of members.

34. Supply of rules.
35. Supply of annual returns.
36. Inspection of books by members.
37. Limitation of benefits.
38. Accumulation of surplus of contributions.
39. Military or naval service not to bar interests.

Property, funds, and investments.

40. Investment of funds.
41. Reconveyance by receipt of trustees.
42. Loans to members from separate loan fund.
43. Holding of land.
44. Vesting of property in trustees.
45. Devolution on death.
46. Description in legal proceedings as property of trustees.

Officers in receipt or charge of money.

47. Security by officers.
48. Accounts to be rendered by officers.

Payments on death, generally.

49. Members power to dispose by nomination of sums due.
50. Proceedings on death of nominator.
51. Intestacy.
52. Validity of payments.
53. Certificates of death.

Payments on death of children.

54. Limitation of amount payable.
55. Persons to whom payment may be made.
56. Particulars to be given in death certificates.
57. Conditions under which certificates may be given.
58. Inquiries by society as to payments on first certificates.
59. Saving as to insurable interest.

Disputes.

60. Decision of disputes.

Change of name, amalgamation, and conversion of Societies.

61. Power to change name.
62. Amalgamation and transfer of engagements.
63. Conversion of society into company.
64. Saving rights of creditors.
65. Conversion of society into branch.
66. Conditions as to special resolution.
67. Registration of special resolution.

Inspection, cancellation, and suspension of registry, dissolution.

68. Appointment of inspectors.
69. Cancellation and suspension of registry.
70. Dissolution of societies.
71. Instrument of dissolution.
72. Award of dissolution.
73. Advertisement of notices.
74. Consent to dissolution of societies having branches.
75. Notice of proceedings to set aside dissolution.

Offences, penalties, and legal proceedings.

76. Penalty for offences prior to registration.
77. Offences.
78. Liability of officers for offences by societies.
79. Continuing offences.
80. Punishment of fraud, false declarations and misappropriations.
81. Fine for falsification.
82. Fine for ordinary offences.
83. Penalty for special offences.
84. Recovery of fines, and prosecution of offences.
85. Legal proceedings.

Fees, forms, regulations, evidence.

86. Calculation and payment of fees.
87. Fees payable for certificates of birth or death.
88. Forms of registrations, returns, &c.
89. Regulations to be made.
90. Evidence of documents.

Application of Act.

91. Application to existing societies.

Supplemental.

92. Definitions.
93. Repeal.

Schedules.

1. Matters to be regulated by rules.
2. Forms.
3. Repeal.

FRIENDLY SOCIETIES (AMENDMENT) 1900.

1. Construction.
2. Exemption of existing societies from section 8 *re* similar names.
3. Extension of registration of existing societies, section 91.
4. Registrar by consent, to hear and determine disputes.
5. Procedure where rules do not apply, or if no decision made.
6. Right to change of registry of co-operative trading and industrial societies.

FRIENDLY SOCIETIES (FURTHER AMENDMENT), 1901.

2. Conditions of registry of existing societies, section 12.
3. Further extension of application of Act, section 91.

FRIENDLY SOCIETIES (AMENDING) 1903.

2. Amendment, section 2 (1), Friendly Societies Further Amendment, 1901.

FRIENDLY SOCIETIES (AMENDMENT), 1906.

2. Incorporation.

Registration.

3. Compulsory registration of societies and branches; excision of penalty for offences prior to registration by repeal, section 76; exemption of dividing or levy societies.
4. Rules inoperative while unregistered; privileges barred to society or branch unregistered.

Tables of Contributions.

5. Rates of contribution of societies not registered at commencement of this Act.

Accounts and Funds.

6. Separation of accounts; property earnings; misapplication of moneys.

Recommendations of Registrar.

7. Registrar to make recommendations on valuation.

Reference of Disputes.

8. Any party may refer to Registrar; amendment, section 60, Principal Act; repeal, section 4 (1), Act of 1900.
9. Procedure where rules do not apply or if no decision made; repeal, section 5, Act of 1900.
- 10-23. Amendments of Principal Act.

GRASS-TREE LICENSES, 1908.

2. Issue of licenses.
3. Regulations to be made.

INDUSTRIAL DISPUTES, 1908.

Part I.—Preliminary.

2. Commencement.
3. Division of Act.
4. Definitions.
5. Industries for which boards to be constituted. As per Schedule 1.
6. Power to amend Schedule 1.

Awards, &c., of Court of Arbitration.

7. Duration of awards.
8. Undecided cases under Industrial Arbitration Act, 1901, to be determined by Industrial Court; filing of documents.

Registration of trade unions.

9. Conditions governing applications, registration and cancellation.

Industrial unions.

10. Savings as to unions duly registered.
11. Cancellation of registration of unions.

Industrial agreements.

12. Making and enforcing agreements.

The Industrial Court.

13. Appointment of judge.

Part II.—Constitution and Powers of Boards.

Constitution of boards.

14. Directing board to be constituted.
15. Constitution of boards.
16. Industries in which women predominate.
17. Appointment of members on election.
18. Appointment of chairman on nomination by other members; vacancy in office.
19. Absence from meetings of board: penalty.
20. Oath to be taken by members and assessors.
21. Dissolution of board; term of office of members; election and appointment of new board.
22. Filling vacancies on boards.
23. Boards to act by consent though vacancy not filled.
24. Validity of appointments not to be challenged.
25. Fees of boards and of assessors.

Jurisdiction of boards.

26. Mode of commencing proceedings before boards; applications by employers or employees.
27. Powers of board.
28. Currency of award.
29. Awards to be signed and published.
30. Evidence of award in *Gazette* notice.

Procedure of boards.

31. Convening meetings.
32. Duties of boards.
33. Matters deemed trivial, or capable of settlement, may be dismissed: recovery of costs.

34. Powers of board to enter and inspect premises.
35. Conduct of proceedings.
36. Evidence to be given on oath.
37. Conditions as to presiding officers and votes; advocates and agents.

Appeal from board.

38. Conditions governing appeals.
39. Awards may be varied.
40. Power of Crown to intervene.

Part III.—Enforcement of Awards and Penalties.

41. Recovery of price or rate fixed; orders tantamount to District Court judgment: Savings as to Masters and Servants Act, 1902.
42. Prohibition of strikes and lockouts: penalty.
43. Breach of award: penalty.
44. Unlawful dismissal of employee: penalty.
45. Proceedings for penalty.
46. Liability of trade or industrial unions in case of strikes or lockouts.
47. Validity of award or order may be challenged.
48. Authority of court for prosecutions.
49. Recovery of penalties.
50. Appeal to Industrial Court from orders imposing penalties.
51. Award, and recovery of costs.
52. Decision of Industrial Court to be final.
53. Appropriation of penalties.
54. Perjury.

Part IV.—General and Supplemental.

55. Making orders for payment: recovery.
56. Appointment of Registrar.
57. Time and pay sheets to be kept.
58. Inspectors: appointment and powers.
59. Security for performance of award.
60. Notice to be given of changed conditions of employment: no alteration during proceedings before board.
61. Judge of Industrial Court to make regulations.

Schedules.

1. Industries and boards.
2. Procedure of boards.

INDUSTRIAL DISPUTES AMENDMENT, 1908.

2. Definition.
3. Amendments—Part I, sections 4, 5, 7, 13 of Principal Act.
4. Amendments—Part II.
5. Amendments—Part III.
(Including new section 51A: Recovery of costs by process, in pursuance of judgment.)
6. Insert—Section 18A: Appointment of assessors.
8. Insert—Section 55A: Adjournment of Court in absence of judge.
55B: Court may reserve decision.
9. Repeal, schedule 2.
10. Additions to schedule 1.

INDUSTRIAL DISPUTES (AMENDMENT), 1909.

2. Amendment, section 4 Principal Act, defining "necessary commodity."
3. Amendment, section 42, imprisonment for abetting strike or lockout.
4. Insert new section 42A: Power of police to enter buildings used for purposes of lockout or strike.
42B Meetings connected with strike or lockout to be unlawful.
42C Penalty for contract or combination in restraint of trade.
42D Penalty for monopoly.
5. Amendment, section 45.

INDUSTRIAL DISPUTES (AMENDMENT), 1910.

2. Interpretation.
3. Amendment, section 45: Orders for proceedings for offences, in contravention of award, or orders for recovery of rates and prices.
4. Amendment, section 58: Additional powers for inspectors.

LABOUR SETTLEMENTS, 1902.

2. Repeal; and saving clauses.
3. (1) Establishment of labour settlements; dedication of available Crown lands; appointment of board of control.
(2) Incorporation of board; powers in relation to lease of land; provision for dissolution.
(3) Land leased or to be leased under this Act may be withdrawn for roads, school sites, recreation, &c.
4. Assessment and payment of rent by board.
5. Governor's power to remove trustees from board.
6. Duties of board.
7. Loans and repayment.
8. Advances may be made to board by Treasurer; conditions; proof of improvements.
9. Provision for advance equal to appraised value of improvements in settlements initiated with moneys provided by enrolled members.
10. Powers of board; subleasing.
11. Regulations to be made by Governor regarding—
 - (a) Class of persons to be enrolled.
 - (b) Accounts to be kept by boards.
 - (c) Duties of boards.
 - (d) Other matters.
12. (1) Regulations to be made by boards regarding—
 - (a) Conduct of its business.
 - (b) Work to be done in the settlement.
 - (c) Finances.
 - (d) Order and government.

Penalties may be imposed.

- (2) Gazetted regulations to have the force of law.

LIQUOR, 1898.

15. Prohibition of trading, except between 6 a.m. and 11 p.m.
16. Restriction of business to week-days: Savings as to Good Friday and Christmas Day.

LIQUOR AMENDMENT, 1905, No. 40.

8. Supply of liquor to certain persons prohibited.
13. Barmaids to be of minimum age, 21 years.
15. Selling hours: election day to be close day: Savings as to bye elections.
20. Meals and accommodation to be paid for; operation of Vagrancy Act.

MASTERS AND SERVANTS, 1902.

Part I.—Preliminary.

2. Repeal.
3. Interpretation.

Part II.—Remedies against Servants.

4. Servant not entering into service according to contract or absenting himself is liable to penalty, or forfeiture of wages due.
5. Fraudulent breach of contract involves liability to imprisonment.
6. Wilful or neglectful spoliation, destruction, or loss involves liability to pay compensation.

Part III.—Remedies against Masters.

7. Wages, not in excess of £50, due and payable to any servant, are recoverable summarily with costs and damages.
8. An agent, manager, or overseer may be summoned for wages: provided a draft upon the employer for the amount and costs relieves agent from imprisonment in default.
9. Payment by cheque; if dishonoured no servant is thereby deprived of remedy for recovery.
10. Penalty on unlawful detention of servant's property by master.

Part IV.—General Provisions and Procedure.

11. Jurisdiction.
12. Penalty on harbouring deserting servants or inciting to desertion.
13. Differences between master and servant to be settled by award of magistrate or two justices.
14. Warrant not to issue, except on reasonable cause to believe defendant has absconded.
15. Clerk of petty sessions may issue summons.
16. Agreements may be proved as if there were no attesting witnesses.
17. Females not to be imprisoned, except as under Justices Act, 1902.

MINERS' ACCIDENT RELIEF, 1900.

1. Commencement.
2. Interpretation.
3. Application.

Committees for Mines.

4. Appointment and constitution of committees.
5. Owners to deduct miners' contributions and to pay to committee.
6. Granting of allowances in case of death or disablement; payment of allowances; assignment void.
7. Compensation under Employers' Liability Act, 1897, to be taken into consideration.

The Board.

8. Establishment.
9. Constitution.
10. Fees.
11. Powers and duties of boards.

The Fund.

12. Constitution and administration; payments into fund; temporary payments; disbursements.
13. Board's accounts to be audited.
14. Quinquennial actuarial investigation of fund; allowances and rates of contribution; insufficiency.

Supplemental.

15. Regulations to be made by Governor and gazetted.
16. Appointment of officers: salaries and expenses.
17. Fines for failure to make payments to board or committee.
18. Contravention of Act by members of board or committee.
19. Recovery of moneys payable under Act.
20. Recovery of penalties.

MINERS' ACCIDENT RELIEF (AMENDMENT), 1901.

2. Extension of definition of mine.
3. Institution of joint committee for several mines.
4. Payment of contributions to fund where committee is not constituted.
5. Committees' expenses.
6. Amendment, section 12 (2) (a).
7. Disbursements: extension, section 12 (4).
8. Amendment, section 15.
9. Committee's power of disposal of moneys payable in respect of children.
10. Amendment, schedule of allowances.
11. Amendment, section 7.

MINERS' ACCIDENT RELIEF (VALIDATING), 1904.

2. Validation of appointment of certain officers.
3. Validation of appointment of certain committees and of their acts.

MINERS' ACCIDENT RELIEF (AMENDMENT), 1910.

2. Amendment, section 2, Principal Act.
3. Amendment, section 4, Principal Act; section 3, Miners' Accident Relief (Amendment), 1901.
4. New section—4A. Minister's power to dissolve committee or remove member.
5. New section—5A. Check weighman and pickman to be covered by Act.
6. Amendment, section 6 (1), Principal Act.
7. New section—6A. Grants of allowances may be reconsidered by committee, or inquiry held.
8. Amendment, section 12.
9. Amendment, section 15.
10. New section—15A. Examination of applicants by specially appointed medical practitioners.
11. Amendment of schedule.
12. Amendment, section 2, Miners' Accident Relief (Amendment), 1901.
13. New section—3A. Miners' Accident Relief (Amendment), 1901. Contribution for mine in which less than fifteen persons are employed.
14. Amendment, section 5, Miners' Accident Relief (Amendment), 1901.
15. Amendment, section 10, Miners' Accident Relief (Amendment), 1901.
16. Amendment, schedule to Principal Act.
17. Amendment, section 5, of Principal Act.

MINES INSPECTION, 1901.

Part I.—Preliminary.

Preliminary.

1. (1) Commencement.
- (2) Application to all mines except coal and shale; provision for exemptions.
2. Division of the Act.
3. Repeal—Mining Act, 1874 (37 Vic. No. 13), and Act 57 Vic. No. 18, and regulations: Savings as to exemptions granted thereunder.
4. (1) Interpretation of terms.
- (2) Inspectors.

Part II.—Managers and Engine-drivers.

Managers.

5. (1) and (2) Appointment of manager of mine.
- (3) Qualifications.
- (4) Permits.
- (5) Temporary appointments.
- (6) Penalties for working without a manager.
6. (1) Board of examiners for managers.
- (2) Regulations to be made regarding procedure of board and holding of examinations.
7. Certificates of competency to be granted.
8. Certificates of service as managers.
9. Certificates granted outside New South Wales may be approved and registered.
10. Form of certificate.
11. Register of certificates.

Engine-drivers.

12. Penalty on unqualified person taking charge of machinery.
13. Board of examiners for engine-drivers.
14. Certificates of competency as engine-drivers.
15. Certificates of service as engine-drivers.
16. Certificates granted outside New South Wales.
17. Specifications in certificates.
18. Register of certificates.

Managers and Engine-drivers.

19. Inquiry into conduct of manager and engine-driver, and cancellation of certificate in case of unfitness.
20. Costs and expenses of inquiry.
21. Record of cancellation of certificate; restoration in certain cases.
22. Copy of certificate in case of loss.
23. Expenses in relation to certificates and payment of fees to Treasury.
24. Penalty for forgery of or false declaration as to certificate.

Part III.—Employees.

Wages.

25. (1) Prohibition of payment of wages at public houses or any place connected with the sale of spirituous or fermented liquor.
- (2) Penalty.

Restrictions on employment.

26. Boys under 14 years and females shall not be employed in or about a mine; limitations upon boy's work; experience prior to employment in the face of the working.
27. Temporary saving as to employment of minors employed before commencement of the Act.
28. Register of boys: employment to be reported to the manager.
29. Persons other than owners or persons acting in the management of a mine shall not be employed below ground for more than eight consecutive hours, nor for more than forty-eight hours in any week except in cases of emergency.
30. Regulation of employment of persons in charge of machinery: penalty for negligence.
31. Employment of persons in contravention of the Act: penalty; special circumstances; liability for misrepresentation as to age.

Part IV.—Inspection and management.

Inspection.

32. Existing inspectors continued; appointment of qualified inspectors.
33. Division into districts or localities.
34. Disqualifications for inspectorships.
35. Penalty against inspector. Divulging information.

36. Powers of inspectors; obstruction of inspectors.
37. Notice to be given by inspector to owner or manager of any cause of danger; proceedings if defect not remedied: penalty. Copy of notice to be transmitted to Minister.
38. Notices and directions of inspectors and action taken to be recorded in a book and signed by manager; records to be available to inspectors.
39. Special reports of inspectors in case loss of life or personal injury.
40. Annual report of inspectors.
41. Plans and sections of workings to be deposited; check surveys; owner liable for costs in case of material variation; failure to deposit plans, &c.; failure to comply with inspector's demand for plan.
42. Abandoned mines; deposited plans required.
43. Notice to be given in case of accident.
44. Opening and abandonment of mine: notice required.
45. Protection of abandoned mine.

Boilers.

46. Licenses to be granted to engineers to inspect and give certificates as to fitness of boilers; certificate before boiler built in; definition of boiler.

Accidents at mines.

47. Coroner's inquests on deaths from accidents in mines.

Lead Poisoning.

48. Governor to make regulations.

Part V.—Drainage of mines.

49. Interpretation; alluvial lead; machinery; owner of machinery.
50. Powers of owners of pumping machinery to require contribution from owners of claims for drainage thereof.
51. Calculation of expense of drainage.
52. Exemptions from drainage dues; determination of amount of contribution; credit to be given for work done by owners.
53. Warden's order: form as per schedule 1; not barred for want of form.
54. Filing and enforcement of Warden's order in mining appeal court of district; certified order to be leviable on property of mine-owner: Warden's power to restrain sale.

Part VI.—Rules.

General Rules.

55. Ventilation; escape drives; use of explosives. Change in shift; inspection at change of shift; manager's daily inspection; withdrawal of workmen in case of danger. Inspection by miners' representative. Control of machinery; condition of machinery: fencing. Gauges to boilers and safety valves; cleansing of boilers: means of signalling for working shafts. Verbal signals. Danger signal line. Clear view for engine-driver. Signalling along drives in alluvial drives. Signalling and manholes for travelling planes worked by machinery. Employees to be acquainted with signals. Code of signals: manholes for other travelling roads: manholes in shafts. Manholes to be kept clear. Fencing of entrance to shafts and of abandoned shafts or dangerous excavations. Doors at plats. Horizontal bar in case fence or cover is temporarily removed. Securing of shaft. Drive and excavation to be protected. Protected lights in main drives. Division of shaft: cages in shafts; cover overhead. Carriage of materials in cages with persons: safety catches and hooks; monthly examination; clearance. Testing safety cage and rope or chain. Gates in haulage shafts. Coupling chains. Brakes and indicators. Rate of speed; protection in ascent or descent; rope slipping; spring catches or tumblers on skids. Restricted use of whip. Protection in braces: open hooks prohibited. Ladder-way compulsory. Boring rods. Escape drives in alluvial mines. Dressing rooms. Angle of batter in open cut. Undermining face of open cut. Stretchers. Observance of directions. Supply of books of rules, &c. Wilful damage.
56. Governors to make and amend general rules.
57. Non-compliance with rules.

Special Rules.

58. Inspectors to direct formulation of special rules.
59. Conditions governing formulation.
60. Chief Inspector's power of objection.
61. Amendment of special rules.
62. False statements, and neglect to transmit special rules.
63. Certified copy of special rules in evidence.
64. Special rules may be made by Governor.

Publication of Rules.

- 65. Abstract of Act, and special rules to be posted up, and supplied to employees.
- 66. Pulling down or defacing notices.

Part VII.—Legal Proceedings and Miscellaneous.

Legal Proceedings.

- 67. Offences: penalty.
- 68. Imprisonment for wilful neglect, endangering life and limb.
- 69. Summary proceedings for offences, fines, &c.: general provisions.
- 70. Appeal against conviction.
- 71. Authority for prosecution of owners, managers, &c.
- 72. Result of proceedings against workmen to be reported to inspector.
- 73. Savings as to proceedings under other Acts.
- 74. Application of fines.
- 75. Service of notices.

Miscellaneous.

- 76. Minister to decide whether mine is under this Act.
- 77. Right of Government Geologist and Geological Surveyors to enter and examine mines.
- 78. Minister's power to make and revoke orders.
- 79. Employees to notify employers of breaches of Act.
- 80. Entry on adjoining mines, &c., to discover encroachments, &c. Action under authority: prior statutory declaration compulsory. Provision for cost of inspection.

MINIMUM WAGE, 1908.

Preliminary.

- 1. Commencement.
- 2. Definitions.
- 3. Definition of overtime.

Minimum wage.

- 4. Minimum wage (4s. per week irrespective of overtime) for workmen and shop assistants: penalty.
- 5. Premium or bonus barred in certain occupations. Recovery: penalty.

Overtime and tea money.

- 6. (1) Minimum overtime pay—payable at maximum intervals of one month.
- (2) Exemption of males under 16 years of age.
- (3) Claims for overtime payments may be made under this Act, or under section 73 of Factories and Shops Act, 1896.
- (4) Penalty.
- 7. Amendment of section 37 of Factories and Shops Act, 1896, to enforce monthly payment of overtime money.
- 8. Tea money in case of overtime work of males under 16 years or females. Penalty.

Supplemental.

- 9. (1) Records to be kept by employers, and to be open to inspection.
- (2) Penalty.
- 10. (1) Powers of inspectors.
- (2) Penalty for obstruction of inspector.
- 11. Regulations to be made.
- 12. Contraventions to be reported.

Proceedings.

- 13. Recovery of penalties.
- 14. Savings as to members of employer's family.

MINING, 1906.

Part I.—Preliminary.

- 2. Repeals. Savings.
- 3. Interpretation.
- 4. Establishment and control of schools of mines and museums.
- 5. Proclamation of gold-fields and mining districts.
- 6. Appointment of officers.
- 7. Savings as to beneficial interest of officers.
- 8. Savings as to Royal prerogative.

Part II.—Miners' rights and business licenses.

Issue and transfer.

9. Issue of miners' rights.
10. Issue of business licenses.
11. Renewals.
12. Transfers.
13. Duplicates.

Occupation.

14. Exempted Crown lands.
15. Rights conferred by miners' rights.
16. Residence areas.
17. Authority to prospect; report of discovery.
18. Rights conferred by business licenses.

Registration.

19. Tenement holders to register.

Miscellaneous.

20. Division of interest; amalgamation; assignment.
21. Rights held on behalf of owners.
22. Default to contribute.

Part III.—Leases of Crown Lands.

23. Granting of leases.
24. Conversion of applications.
25. Conditions of applications.
26. Priority of applications.
27. Irregular applications; modifications; refusal.
28. Occupation by and rights of applicant.
29. Claiming damages.
30. Pendency of application.
31. Survey of land.
32. Lodging and service of objections.
33. Procedure.
34. Inquiry by Warden.

Conditions.

35. Area and dimensions of leases.
36. Rent and royalty.
37. Labour conditions.
38. Duration and renewal of leases.
39. Savings as to renewals from repealed Acts.

Special leases.

40. Conditions.

Minerals not included in lease.

41. Authority to mine for minerals not specified: unauthorised mining.
42. Mining for gold under mineral lease.
43. Mining for other minerals under gold-mining lease.

Ownership of tailings and ore.

44. Tailings on abandoned Crown land.

Part IV.—Mining on Private Land.

45. Interpretation.

Lands open to mining.

46. Mining for gold and other metals: minerals: exemptions.
47. Restriction on authority to enter gardens or improved land.
48. Exemption of surface of cultivated land.

Authority to enter.

49. Interim permits.
50. Application for and grant of authority.
51. Rent: compensation: non-payments.
52. Duration and extension of authority.
53. Areas and extension.
54. Lawful prospecting: contravention of conditions; labour.
55. Residences.
56. Occupation after cancellation of authority.

Leases.

57. Mining leases: conditions governing issue.
58. Refusal of leases.
59. Stipulations in leases.
60. Leases for mining purposes: interim permits: special provisions.
61. Leases of surface.
62. Terms of leases.
63. Extent.
64. Rent and compensation.
65. Rights and duties of lessees.
66. Restrictions.
67. Impounding or molesting stock.
68. Prospecting by owner; no preferential rights.
69. Lease by owner.
70. Owner mining or contracting for mining.

Resumption.

71. Coal and shale lands.
72. Private lands.
73. Notification of resumption.
74. Preferential rights of discovery.
75. Rights of former owners.
76. Resumption of lands held without reservation of minerals.

Compensation.

77. Assessment of compensation for resumption.
78. Claims to payment.
79. Payment.
80. Costs.
81. Interest.

General Provisions.

82. Royalties.
83. Right of way.

Part V.—Dredging Leases.

84. Interpretation.
85. Application.
86. Leases.
87. Marking of land: authority.
88. Entry in pursuance of authority.
89. Interim possession.
90. Applications for leases.
91. Inquiry by Warden.
92. Inquiry by Minister.
93. Reports to Minister.
94. Minister's power to grant or refuse lease, and specify conditions
95. Warden's order for necessary roads or sites.
96. Warden's order for other roads or sites.
97. Rent—first year's payment.
98. Rent and royalty.
99. Grant of lease.
100. Right to water.
101. Penalty for anticipating lease.
102. Authority to holder of miner's right.
103. Washing dirt.

Part VI.—Tenements and Leases Generally.

104. Leases for railways and tramways for mining purposes.
105. Suspension of pastoral lease.
106. Exemption of Crown lands from alienation.
107. Execution of lease.
108. Form and conditions of lease.
109. Registration.
110. Construction of works on roads.
111. Tunnels.
112. Easement over Crown lands to continue notwithstanding alienation.
113. Suspension of labour conditions.
114. Exemption.
115. Returns of minerals won.

- 116. Coal-mining lessees.
- 117. Reward areas.
- 118. Amalgamation of leases.
- 119. Encroachment.
- 120. Inspection by mining surveyor as to encroachment.
- 121. Surveyor's declaration.
- 122. Sludge abatement.
- 123. Surrender of leases.
- 124. Cancellation.
- 125. Removal of machinery.
- 126. Surveyor to define road.
- 127. Inquiries.
- 128. Inspections.
- 129. Nature of holding and evidence of title.
- 130. Mining towns.

Part VII.—Wardens' Courts.
Jurisdiction.

- 131. Establishment of Wardens' Courts.
- 132. Register to be kept.
- 133. Jurisdiction.
- 134. Wages to be a first charge.
- 135. Decisions; finality.
- 136. Suitor to hold miner's right or lease.
- 137. Minors may sue.

Hearing and Procedure.

- 138. Instigation of case.
- 139. Hearing.
- 140. Amendment of proceedings.
- 141. Adjournment, in absence of Warden.
- 142. Payment into court.
- 143. Subsequent proceedings.

Orders.

- 144. Payment by instalments.
- 145. Complaints for injury to property.
- 146. Deposit pending decision.
- 147. Injunctions.
- 148. Delivery of specific chattels.
- 149. Costs.

Execution.

- 150. Form and service of orders.
- 151. Writ of execution.
- 152. Writ to be obeyed: seizure by bailiff.
- 153. Order for delivery of gold or mineral in possession.
- 154. Enforcement of orders not specially provided.

Assessment of Compensation.

- 155. Method of assessment.
- 156. Procedure in court.
- 157. Additional assessments.
- 158. Appeal to arbitration.
- 159. Appeal against assessment.
- 160. Rules and orders on appeal.

Part VIII.—Appeals.

To District Court.

- 161. Right of appeal from Warden's Court.
- 162. Hearing.
- 163. Procedure.
- 164. Injunction and stay of proceedings.
- 165. No costs on appeal under £20, unless special circumstances.
- 166. Enforcement of decision after appeal.
- 167. Appeal to Supreme Court.

Supreme Court.

- 168. Stating case.
- 169. Security to be provided by appellants.
- 170. Warden's refusal to state case.
- 171. Direction of Supreme Court.

172. Appellant to give notice.
173. Powers of Supreme Court.
174. Powers of Judge in Chambers.
175. Enforcement of order as Warden's order.
176. Abandonment of appeal to District Court.

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2. Definitions.

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4. Negligent, furious, or reckless driving.
5. Duties of police; identification of driver.
6. Driver to be licensed and vehicle numbered.
7. Unlawful transfer of license.
8. Accidents.
9. Procedure of licenses in Court.
10. Penalties for convictions; suspension of licenses.

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16. Application of Act to officers of Crown.
17. Savings as to common law or statute liability.
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POOR PRISONERS' DEFENCE, 1907.

2. Provision for legal aid for poor persons.

RAILWAY SERVICE SUPERANNUATION, 1910.

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4. Deductions from salaries: maximum 12 per cent.
5. Institution of Government Railways Superannuation Account.
6. Conditions governing granting of allowances.
7. Period and amount of allowance.
8. Abatements on allowances for existing officers.
9. Gratuities to officers incapacitated.
10. Gratuities to officers compelled to retire.
11. Reports on officers unfit for duty.
12. Medical examination of officers receiving allowances or gratuities: restoration to health and resumption of duty.
13. Refunds on account of officers dying while on service.
14. Refunds on account of officers dying shortly after retirement.
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16. Limits to amount of allowance or gratuity.
17. Payments to be certified by Board.
18. Officers dismissed for misconduct.
19. Surrender or transfer of officer's policy of insurance.
20. Certain determinations of board to be final.
21. Allowances not to be assigned or charged.
22. Governor to make regulations.
23. Recovery of penalties.

REGISTRATION OF FIRMS, 1902.

2. Commencement of Act.
3. Interpretation.
4. Firms and persons to be registered.
5. Manner and particulars of registration.
6. Attested statement required; fee.
7. Time limit for registration.
8. Changes in constitution of firm.
9. Re-registration on change of firm name.
10. Penalty for default in registration.
12. Proceedings against non-registered firms.
13. False returns: penalty.
14. Informations for offences.
15. Registrar-General to file statement and issue certificate of registration.
16. Register and index to be kept.
17. Statements to be available for inspection: fee; certificates, or copies, to be obtainable; fee; certificate of registration to be admitted as *prima facie* evidence.
18. Registrar-General to reply to postal inquiries.
19. Registrar-General to report offences against Act.
20. Governor to make regulations as to fees, forms, and conduct of registration.
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2. Incorporation with Early Closing Act, 1899, and amendments.
3. Closing time of non-scheduled shops in Metropolitan, Newcastle, and county of Northumberland shopping districts, viz., Saturday, one o'clock; Wednesday, six o'clock; Friday, ten o'clock. Savings—Section 8, Early Closing Amendment Act, 1900.
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Hairdressers' shops; Butchers' shops.

SCAFFOLDING AND LIFTS, 1902.

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1. Commencement.
2. Locale.
3. Definitions.
4. Appointment of inspectors.

Erection of Scaffolding.

5. (1) Notice required prior to erection of scaffolding.
- (2) Penalty.
- (3) Emergencies.

Scaffolding engines and gear.

6. Scaffolding to be in accordance with regulations.
7. Governor to make and alter regulations.

Construction of Lifts.

8. (1) Notice required prior to erection of lifts.
- (2) Penalty.

Inspection.

9. Periodical inspections: right of entry of inspector.
10. (1) Inspector may give directions.
- (2) And order work to cease.
- (3) Appeal against inspector's orders.
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Drivers of steam cranes.

11. (1) Drivers in charge to hold certificate. Government Architect may grant or cancel certificates.
- (2) Penalty.

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12. Obstruction of inspectors: penalty.
13. Recovery of penalties.

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- 1 and 2. Regulations.

SCAFFOLDING AND LIFTS (AMENDING), 1908.

2. Amendments of Principal Act, sections 3, 5, 6, 9, and 10.
3. Insert section 7A. Details as to regulations.
4. Insert passenger lifts—Section 8A: Authorised attendant to be in charge; 8B: Name of attendant to be shown on lift.
5. Insert section 9A: Inspector may suspend incompetent attendant.

SEAMEN'S, 1898.

Part I.—Preliminary.

2. Repeal. Savings.
3. Interpretation.
4. Application.
5. Ships of war exempted.

Part II.—Shipping Offices and Masters.

6. Appointment of shipping masters at ports; security to be given.
7. Duties of shipping masters.
8. Fees payable to shipping masters on engagements and discharges: Table of fees to be displayed; owner may pay fees; recovery of fees; fees to be accounted for to Treasurer.
9. Shipping master to hear and decide questions referred by parties: his award binding.
10. In such proceedings shipping master may call for ship's papers, and summon witnesses: penalty.
11. Shipping masters and office may not receive remuneration beyond lawful fees: penalty.
12. Shipping business may be done at Customs houses.

Part III.—Apprenticeship.

13. Indentures: mode of execution and attestation.
14. Indentures to be in duplicate; records to be kept by shipping master; assignment of indentures: penalty for infringement.
15. Apprentices from charitable institutions.
16. Apprentices on foreign-going ships: records in ship's articles: penalty for default; apprentices on interstate ships.

Part IV.—Engagement of Seamen.

17. Agreements to be made; details and stipulations; duplicates.
18. Seamen to be engaged before shipping master or on board the ship in which they are to serve. Attestation of agreements: production of discharges.
19. Rules respecting agreements: foreign-going ships.
20. Running agreements: fees payable.
21. Running agreements: duplicates.
22. Special agreements for interstate ships of same owners. Twenty-four hour interval on changing ship.
23. Penalty for shipping seamen without agreement duly executed.
24. Changes in crew to be reported: penalty.
25. Alterations in agreements voided unless attested as made with consent of parties; proof of consent.
26. Falsifying agreements: penalty.
27. Seamen not bound to produce agreement.
28. Unsigned copy of agreement to be posted on board.
29. Compensation for discharge before termination of agreement.
30. Penalty for unlawfully supplying seamen, or employing others so to do, or receiving seamen unlawfully supplied, or receiving remuneration from seamen for shipping them.

Islanders.

31. Islanders to be engaged before shipping masters. Agreements unenforceable if not made before shipping master or consul.
32. Procedure in making agreements with islanders: stipulations; duplicates: explanation by shipping master.
33. Contravention: penalty. Limitation regarding proceedings.
34. Islanders to be discharged and paid before shipping masters: penalty.

Part V.—Discharges.

35. Mode of discharging seamen; shipping master to retain discharge till applied for: penalty.
36. No discharge necessary on immediate re-engagements.
37. On discharge, master to deliver account of wages: deduction not allowed unless on account; to be recorded in master's book; production.
38. Loss or absence of discharges; licenses to ship.
39. Master to report as to character of seamen discharged; false discharges or reports.

Part VI.—Wages.

Accrual and payment.

40. Right to wages: commencement.
41. Inalienable right to recovery of wages, and to lien upon ship for such recovery; stipulations abandoning rights to be void; exemption of salvage service.
42. Wages not to be dependent on the earning of freight; saving wreck or loss of ship.
43. Sale of and charge upon salvage on wages invalid. Payment good as against assignment, attachment, &c.
44. Right to wages in case of termination of service by wreck or illness.
45. Wages not to accrue during refusal to work or imprisonment.
46. Wages to be paid within given time limit; exemption in case of profit-sharing adventures: penalty.
47. Payment of wages to seamen left behind on ground of inability; indorsement on bill drawn on owner; absence of full account; false account.
48. Rules for settlement of wages: release signed before and attested by shipping master: to act as discharge, and to be evidence; no other receipt to operate as discharge: voucher to be given to master.

Forfeiture.

49. Ascertaining amount of forfeiture.
50. Questions of forfeiture may be decided in suits for wages.
51. Proving desertion as concerning forfeiture of wages.
52. Costs of procuring conviction may be deducted from wages.

Allotment Notes.

53. Allotment notes: stipulations necessary in agreements.
54. Relatives may sue summarily upon allotment notes: procedure: evidence: forfeiture; deserting wife voids her rights.

Remedies.

55. Seamen may sue summarily for wages not exceeding £50: orders payable within limited time: no appeal from orders.
56. Restrictions on suits for wages in superior courts.
57. Master's remedies similar to seamen's: Court of Admiralty may decide counter claims.

Part VII.—Property of deceased seamen.

58. Master to take charge of or sell effects of deceased seamen left on board; records in log.
59. Effects and wages to be delivered to shipping master with full accounts.
60. Infringement; owner to account on default of master: proceedings in recovery of wages and effects.
61. Wages and effects of seamen dying in New South Wales.
62. Wages and property of less value than £50 may be paid over without probate or administration; Minister may require probate.
63. Wages and effects valued in excess of £50 to be paid to legal personal representative.
64. Payments under wills made by seamen.
65. Payment of just claims by creditors: prevention of fraudulent claims.
66. Unclaimed wages of deceased seamen; to be paid into Treasury; rights after six years.
67. Punishment of forgery and false representations to obtain wages and property of deceased seamen.
68. Recovery of wages, &c., of seamen lost with their ship.

Part VIII.—Protection.

69. Chest of medicine to be kept on board; annual overhaul and replenishment; penalty.
70. Lemon juice, sugar, and vinegar to be kept on board and served out; default of owner.
71. Masters to keep weights and measures.
72. Allowance for short or bad provisions; substitutes.
73. Expenses of medical attendance, &c., to be defrayed by owner; except in cases of misconduct of seamen, &c.
74. Wrongfully leaving seamen behind: misdemeanour.
75. Discharging or leaving seamen without sanction of responsible official.
76. Onus of proof of sanction or certificate to lie upon master.
77. Penalty for overcharge by lodging-house keeper.
78. Penalty for detaining seamen's effects.
79. Penalty for boarding a ship before actual arrival at place of discharge.
80. Penalty for solicitation by lodging-house keeper, or for removal of seamen's effects.

Part IX.—Discipline.

81. Misconduct endangering ship, or life, or limb.
82. Offences of seamen and apprentices: desertion; neglecting to join ship; quitting; disobedience; assault; combining to disobey; wilful damage or embezzlement; smuggling.
83. Absence without leave for institution of legal proceedings: penalty on master or officer for refusal of such leave; limitations.
84. Entry in log of offence and offenders defence.
85. Deserters may be sent on board in lieu of imprisonment.
86. Penalty for false statement of name or last ship.
87. Penalties for enticing to desert and for harbouring deserters.
88. Desertion to be prosecuted, after departure of ship, by shipping master.
89. Penalty on deserting seaman for secreting himself on board any other ship.
90. Drunk or disorderly seamen may be given in custody by master.
91. Detention of seamen deserting from one ship to another: limitations.

Part X.—Vessels in Port—Duties of Masters.

92. List of crew to be delivered to shipping master on arrival of ship.
93. Masters of foreign-going vessels to supply to shipping master verified copies of ship's articles, and of entry of desertions. Penalty.
94. Coasters liable to be searched for deserters: penalty for obstruction.
95. A man to be at all times in charge of deck, and respond to challenges by police or Customs: penalty.
96. Masters, before clearing, to deliver lists of crew and passengers, &c.: penalty; exemption if on Customs house clearance.
97. Persons found on board after clearance may be detained.
98. Vessels not to put to sea till searched, not to cast anchor after search in limits of port: exceptions: penalty.
99. Penalty on master of vessel for concealing a person on board.
100. Persons dying on board ship, in port or harbour, to be buried ashore.

Offences by Seamen and others.

101. Insubordination upon vessels in port.
102. Persons going alongside or aboard between sunset and sunrise.
103. Damaging boats: penalty.
104. Obstructing or resisting search for offenders.

Powers of Justices and Constables.

105. Vessels may be boarded and searched.

Procedure.

106. Appropriation of penalties.
107. Appeal to Quarter Sessions: time limits.
108. Costs against unsuccessful appellant: indemnity to justices.
109. No certiorari; process not to be void: by defects.
110. Penalty on witnesses.
111. No action to lie against peace officers without proof of malice; defendants' costs.

Part XI.—Miscellaneous.

112. Governor to make regulations.
113. Police boats to patrol Port Jackson.
114. Magistrates' power to cancel waterman's license.
115. Printed forms to be supplied by shipping masters.
116. Penalties for offences not specified.
117. Recovery and application of penalties.
118. Documents may be proved without calling attesting witnesses.
119. Sums ordered to be paid leviable by distress, on vessels.

Schedules.

- Repeals.
- II. Form of Declaration.
- III. Fees.
- IV. Agreements.
- V. Ship's articles.
- VI. Certificate of discharge.
- VII. Report of character.
- VIII. Release.
- IX. Allotment note.

SECOND-HAND DEALERS AND COLLECTORS, 1906.

1. Commencement.
2. Definition.

Part I.—Second-hand Dealers.

3. Dealers to be licensed.
4. Applications for license or transfer: currency.
5. Notice to be given: police may show cause.
6. Applications to be made by proposed transferee.
7. Endorsement of transfer upon license.
8. Name to be painted outside premises; entry to be made on letting truck; records to be kept of old wares purchased or received, sold, or disposed of; police to be notified regarding supposed stolen articles; form of old wares not to be changed for five days.
9. Dealer to operate only on licensed premises; dealer to produce license on demand; trucks to be lent to licensed collectors only; charges not to be excessive; old wares not to be purchased from persons under age 14; restriction of hours.

Part II.—Collectors.

10. Collectors to be licensed; license not to issue to persons under age 14; currency of license; fee.
11. Collector's address to be notified; change of address; license to be shown on demand. Special wares to be kept for four days.
12. Licenses not to be hired; hours of business; trucks to show address; to be attended by two persons only; entry to, and departure from, premises at command; good behaviour; license void on second conviction; arrest without warrant.
13. Collectors to be licensed; license not to be hired; only licensed dealers to purchase old wares; only licensed collectors to accompany truck.

Part III.—Miscellaneous.

14. Expiry of license.
15. Presumption that persons are unlicensed.
16. Presumption of possession of old wares.
17. Presumption that records in dealer's book were made by him.
18. License may be revoked.
19. Register of licenses to be kept at each licensing court.
20. Right of entry of inspectors, &c., to dealer's premises.
21. Search may be authorised.
22. Suspicious offering of old wares.
23. Proceedings for offences.
24. Matters to be provided for by regulations to be made.

Schedules.

1. Form of dealer's license.
2. Records of hiring.
3. Records of purchases and receipts.
4. Records of sales and dispositions.
5. Application for license.
6. Form of collector's license.

SHEARER'S ACCOMMODATION, 1901.

Preliminary.

1. Commencement.
2. Savings as to sheds employing less than six shearers.
3. Definitions.

Districts and Inspectors.

4. Division into districts.
5. Appointment of inspectors.

Shearing Sheds and Accommodation for Shearers.

6. (1) Sufficient accommodation in buildings apart from shearing shed.
(2) Requirements as to proper and sufficient accommodation.
7. (1) Buildings, other than shearing sheds, to be kept clean by shearers.
(2) Shearers not to permit buildings to be damaged.
(3) Shearers to be responsible for costs of cleaning and repairing.

Inspection and regulation of accommodation.

8. Shearing sheds and buildings shall be inspected and reported upon at least once per annum.
9. Inspector's rights of ingress and egress.
10. Notice to comply with Act in cases of inadequate accommodation.
11. (1) Failure to comply: complaint to a justice and summons.
(2) Order of court on such complaint.
(3) Penalty on failure to carry out order.

Supplemental.

12. Obstruction of inspector.
13. Notice of shearing to be delivered to inspector.
14. Hearing of information in Court of Petty Sessions; penalties.

SUBVENTIONS TO FRIENDLY SOCIETIES, 1908.

2. Definitions.
3. (1) Payment of subventions out of moneys provided by Parliament.
(2) Applications for subventions.
4. Subvention for sick pay: rates, and limitations.
5. Subvention for medical attendance.
6. Subvention for funeral donations.
7. Application of subvention funds: statements in proof.
8. Tabulation of returns received, under the Friendly Societies Acts; Registrar's certificate.
9. Conditions precedent to payment of subventions.
10. Commencement of the Act: claims admissible.
11. Claims preferable: time limits.
12. Trustees of societies to supply any information required.
13. (1) Penalty for misstatements, &c.
(2) Adjustment on account of errors.
14. Penalty for misapplication of subvention moneys.
15. Regulations to be made.
16. Recovery of penalties.
17. Administration of the Act by Registrar of Friendly Societies.

TRADE UNIONS, 1881.

2. Trade union not criminal.
3. Trade union not unlawful for civil purposes.
4. Enforceability of contracts.
5. Savings as to certain Acts.

Registered Trade Unions.

6. Registry.
7. Power to purchase or lease buildings.
8. Property vesting in trustees.
9. Actions by or against trustees.
10. Limitation of responsibility of trustees.
11. Provision in case of absence of trustees.
12. Accounts.
13. Withholding moneys.

Registry of Trade Unions.

14. Regulations for registry.
15. Withdrawal or cancellation of certificate.
16. Provisions of rules.
17. Registered office.
18. Annual returns.
19. Membership of minors.
20. Nominations.
21. Change of name.
22. Amalgamation.
23. Registration of change of name and amalgamations.
24. Dissolution.
25. Failure to supply returns and notices.
26. Registrars.
27. Circulating falsified rules.

Legal proceedings.

28. Summary proceedings.
29. Appeal to Quarter Sessions.
30. Interested persons not to act as Court of Appeal.
31. Definitions.

Schedules.

1. Provisions in rules.
2. Fees.

TRUCK, 1900.

1. (1) Wages payable in money only; advances due by agreement, by custom, or otherwise may not be withheld; and no deduction may be made on account of poundage, discount, interest, &c.
(2) Contracts made in contravention of this section are so far voided; and such promises or consideration shall be severable from other parts of the contract.
2. No employer shall be a party to any contract to stipulate the mode of spending wages or to require workmen to reside upon the lands of such employer; nor shall any employer dismiss any workman from his employment on account of such matters.
3. All wages shall be paid in money, and, if demanded, at intervals not exceeding fourteen days; every workman shall be entitled to recover from his employer, in any court of competent jurisdiction, such wages earned as have not been paid in money.
4. (1) No set off shall be allowed to defendant employer for goods supplied to a workman by the employer; directly, or
(2) by his order.
5. No employer shall have any right of action for goods supplied to his workmen.
6. No deduction shall be made from wages for sharpening or repairing tools, except by agreement.
7. Payment of wages may be made by cheque, with consent of the workman; remedies of workman; in case of dishonour, the workman may recover wages and reasonable damages, in any court of competent jurisdiction.
Service of legal process; may be effected by delivery to manager or overseer of works; other legal modes of service not barred.
9. Penalties for breaches of the Act.

10. Savings—

(1) As to contracts to supply—

- (1) Medicine, fuel, tools, implements, &c.
- (2) Tools, outfit to bushmen to extent of two months' wages.
- (3) Provender for horses.
- (4) Use of tenement, or house, or other privileges.
- (5) Advances of money in cases of sickness.

(2) Seamen, domestic servants, and persons employed in agricultural and pastoral pursuits are not bound by this Act.

11. Recovery of penalties.

12. Definitions.

13. Commencement.

TRUCK ACT AMENDMENT, 1901.

1. Add to "Savings"—clause 10, Principal Act. Subscriptions to hospitals, county Yancowinna.

WORKMEN'S COMPENSATION, 1910.

2. Definitions.

3. Application as to employment, in—

- (a) Stated (hazardous) callings.
- (b) Other employments, declared by proclamation to be dangerous.

4. Application to employees by or under the Crown.

5. Liability of employers; subject to Schedule 2.

6. Savings as to employers' liability in case of—

- (a) Incapacitation for less than two weeks.
- (b) Serious or wilful misconduct of the workman.

7. Procedure in recovery of compensation—

- (a) Under District Courts Act, 1901, for claims in excess of £30.
- (b) Under Small Debts Recovery Act, 1899, for claims not exceeding £30.

8. Right of workmen—

- (a) No bar as to civil liability of employer.
- (b) Optional claim under this Act, or independently.

9. Procedure when action wrongly brought.

10. Proceedings for fines not affected.

11. Deductions from compensation.

12. Notice of accident and of proceedings.

13. Form and service of notice.

14. Contracting out.

15. Sub-contracting.

16. Claims of workmen in case of bankruptcy of employer, or winding up of a company. First charge.

17. Remedies against employer and stranger—

- (1) Recovery of damages and compensation barred.
- (2) Indemnity of sub-contractor.

18. Existing contracts.

19. Annual returns, specifying injuries and compensation paid; penalty.

20. Regulations to be made.

Schedules.

I. Members of workman's family.

II. 1. Scale and conditions of compensation—

(1) Where death results from injury.

(2) Where total, or partial, incapacity results from injury. Workmen over 60 years of age, infirm workmen, workmen under 21 years of age.

2. Calculation of "average weekly earnings."

3. Fixing amount of weekly payment.

4. Payment to representatives or dependents.

5. Settlement by court.

6. Investment or application of compensation.

7. Remarriage or misconduct of widow.

8. Medical examination of workman after notice of accident.

9. Medical examination of workman receiving weekly payments.

10. Regulations as to medical examination.

11. Review of weekly payments.

12. Payment of lump sum.

13. Compensation not assignable.

14. Payments to minors.

15. Suspension of right to compensation.

food, and has substituted vegetables, and cereal foods. The requirements of the State for fresh meat alone in 1909 were 412,000 head of cattle and 3,663,000 sheep.

The swine slaughtered during 1909 numbered 202,300. The quantity of bacon and hams made, according to the returns collected, was 9,931,000 lb., and the quantity imported for home consumption during the year was 2,253,000 lb. The annual consumption of pork and its manufactured products is about 10·8 lb. per inhabitant.

The consumption of potatoes is subject to considerable fluctuation. In 1904 it apparently amounted to 125,000 tons, but fell to 87,000 tons in the succeeding year when prices became higher. In 1908 it reverted to the figure of 1904, but in 1909 it dropped to 96,000 tons. The local production varies greatly, but is seldom equal to the demand, and the State is usually compelled to import largely from the neighbouring States.

Sugar is freely consumed, reaching the average consumption of 101·1 lb. per head of population. The northern rivers district is well adapted to the growth of sugar-cane, and during the four years ended with 31st March, 1899, the average area cut was over 15,000 acres. With the growth of dairy-farming the industry has declined, and now less than 7,000 acres of cane are cut annually. The local mills produced 14,800 tons of sugar in 1909. The average production of the past five years has been 20,600 tons per annum, and as the total requirements of the State are about 75,000 tons an import of 54,000 tons is necessary each year.

The consumption of butter is increasing, on account of the great improvement in the quality of the article, and its comparative cheapness. The whole of the butter and most of the cheese used are of local manufacture, and almost every year there is an increase in the quantity exported. The butter required for local consumption now exceeds 40 million pounds per annum, and 5½ million pounds of cheese are necessary.

Tea enters largely into consumption, the average being slightly in excess of 7 lb. per head. The annual consumption of coffee is 10·7 oz. per head.

The quantity of tobacco consumed in 1909 was 4,667,200 lb., the figures including tobacco, cigars, and cigarettes. This is equivalent to 2·87 lb. per inhabitant, and is a little below the average of 1908, which was 2·95 lb. per head. The consumption is gradually increasing, as ten years ago the average per head was just over 2½ lb., and from 1900 to 1904 not quite 2¾ lb. per head. The figures for 1909 are as follows:—

Description.	Consumption of Tobacco, 1909.			Per head of Population.
	Imported.	Australian.	Total.	
	lb.	lb.	lb.	lb.
Tobacco ...	492,600	3,231,500	3,724,100	2·29
Cigars ...	114,100	109,200	223,300	·14
Cigarettes ...	42,100	677,700	719,800	·44
Total ...	648,800	4,018,400	4,667,200	2·87

In regard to the description of tobacco used there has been a large increase in the quantity of cigarettes. In 1890 about 88 per cent. of the total consumption was of ordinary tobacco, in 1909 the proportion had fallen to 80 per cent.; of cigars the consumption was about 8·5 per cent., compared with 5 per cent. at present; and of cigarettes 3·1 per cent. in 1890, compared with 15 per cent. in 1909.

The consumption of tobacco during the last seven years is shown below :—

Year.	Total Consumption.			Per head of Population.		
	Tobacco.	Cigars.	Cigarettes.	Tobacco.	Cigars.	Cigarettes.
	lb.	lb.	lb.	lb.	lb.	lb.
1903	3,365,500	180,400	440,100	2·37	·13	·31
1904	3,199,200	184,000	512,000	2·21	·13	·35
1905	3,426,200	189,100	525,400	2·32	·13	·36
1906	3,603,000	202,900	558,800	2·38	·13	·37
1907	3,607,700	271,400	622,000	2·32	·17	·40
1908	3,747,800	244,800	690,700	2·36	·15	·44
1909	3,724,100	223,300	719,800	2·29	·14	·44

CONSUMPTION OF INTOXICANTS.

The volume of spirits consumed in the State during 1909 was 1,295,400 gallons (proof), of which 123,800 gallons were Australian, and 1,171,600 gallons were imported. The consumption per head, 0·80 gallons, was equal to the average for the previous five years, as will be seen from the following table :—

Year.	Consumption of Spirits.		Year.	Consumption of Spirits.	
	Total.	Per Inhabitant.		Total.	Per Inhabitant
	gallons.	gallons.		gallons.	gallons.
1891	1,268,368	1·11	1903	1,127,222	0·79
1895	921,468	0·73	1904	1,126,400	0·78
1898	986,325	0·74	1905	1,131,500	0·77
1899	1,005,799	0·75	1906	1,163,600	0·77
1900	1,103,969	0·82	1907	1,419,900	0·91
1901	1,245,652	0·90	1908	1,188,200	0·75
1902	1,260,438	0·90	1909	1,295,400	0·80

The average consumption of beer per head of population has declined considerably since 1891, when the rate was 11·43 gallons per capita, and in 1905 was lower than in any previous year for which information is available, namely, 8·92 gallons per head. The rate has since risen in each year, and now amounts to about 10 gallons annually for each inhabitant. The consumption of imported beer is becoming less, although not to the extent indicated in the table, as until the last eight years the figures included the imports from the other Australian States :—

Year.	Consumption of Beer.			
	Locally brewed.	Imported.	Total.	Per Inhabitant.
	gallons.	gallons.	gallons.	gallons.
1900	13,274,734	1,618,966	14,893,700	11·00
1901	13,118,339	1,757,907	14,876,246	10·84
1902	13,441,275	1,121,277	14,562,552	10·45
1903	12,571,758	1,011,465	13,583,223	9·55
1904	12,079,400	940,900	13,020,300	9·00
1905	12,327,900	867,800	13,195,700	8·92
1906	12,716,800	812,400	13,529,200	8·93
1907	14,278,800	945,700	15,224,500	9·79
1908	14,856,800	906,800	15,763,600	9·92
1909	15,240,000	973,500	16,213,500	9·98

The consumption of beer and spirits can be determined fairly accurately; but as there is no excise duty on wine the consumption can be gauged only on the basis of the production, and the results apparently are not very reliable in view of the great variations shown in successive years.

The wine entering into consumption in New South Wales is chiefly the produce of Australian vineyards; but the quantity produced in the State is much less than might be expected in a country so eminently adapted for viticulture. The quantity of Australian and foreign wines consumed during each of the past ten years is shown below:—

Year.	Consumption of Wine.			
	Australian.	Foreign.	Total.	Per Inhabitant.
	gallons.	gallons.	gallons.	gallons.
1900	816,908	87,026	903,934	0·67
1901	700,017	93,984	794,001	0·58
1902	851,539	167,921	1,019,460	0·73
1903	845,333	107,551	952,884	0·67
1904	941,100	40,500	981,600	0·68
1905	1,075,500	29,100	1,104,600	0·75
1906	1,094,600	39,400	1,134,000	0·75
1907	927,000	43,000	970,000	0·62
1908	850,800	41,800	892,600	0·56
1909	877,700	43,600	921,300	0·57

New South Wales compares favourably with other countries as regards the average consumption per head of population as will be seen from the following table. The figures are based on the latest available data:—

Country.	Consumption per Head of Population.		
	Spirits.	Wine.	Beer.
	galls.	galls.	galls.
United Kingdom	0·9	0·3	26·7
Canada	0·8	0·1	5·5
New Zealand	0·8	0·2	10·0
Denmark	2·4	...	20·5
Sweden	1·4	...	11·6
Belgium	1·1	1·0	48·8
Germany	1·4	1·6	26·3
France	1·4	33·9	7·5
Italy	0·3	18·5	0·2
United States	1·3	0·4	16·8
New South Wales	0·8	0·6	10·0

Denmark consumes more spirits per head than any other country, France more wine, and Belgium more beer.

PRICES OF COMMODITIES.

The area of New South Wales is so extensive, and the population, except on the sea-board, so scattered, that the determination of the average prices of the various articles of food is a difficult matter. Consequently no attempt has been made to ascertain the average for the State, and in the following pages the prices refer to the Metropolitan markets alone.

The following table exhibits the average retail prices of eight standard commodities at intervals since 1870:—

Year.	Bread per 2-lb. loaf.	Fresh Beef per lb.	Butter per lb.	Cheese per lb.	Sugar per lb.	Tea per lb.	Potatoes per cwt.	Maize per bushel.
	s. d.	s. d.	s. d.	s. d.	d.	s. d.	s. d.	s. d.
1870	3½	3½	1 3	0 6	4	2 0	5 0	3 4
1875	3	3½	1 3	0 9	4½	1 9	5 6	4 3
1880	3	3½	0 10	0 7	4	2 0	4 3	2 6
1885	3	4½	1 9	1 0	3	1 9	5 6	3 11
1890	3½	4	1 0	0 8	3½	1 6	6 0	3 10
1895	2¾	3	1 0	0 8	2½	1 6	4 3	2 9
1900	3	3½	0 11	0 7½	2½	1 4	6 9	3 0
1901	3	5	1 0	0 8	2½	1 3	7 6	3 6
1902	3½	6	1 2	0 10	2½	1 3	7 6	5 10
1903	3½	5½	0 11	0 9	2½	1 3	5 10	4 6
1904	2¾	5	0 10½	0 8	2½	1 3	4 0	2 9
1905	2¾	5½	1 1	0 8	2½	1 3	10 6	4 0
1906	2¾	5½	1 1	0 8½	2½	1 3	10 6	3 9
1907	3	5½	1 1	0 8	2½	1 3	4 6	3 10
1908	3½	5½	1 2½	0 10	2½	1 3	7 3	5 3
1909	3½	5½	1 1	0 10	2¾	1 3	7 3	4 9
1910	3½	5½	1 1	0 9	2¾	1 3	7 6	4 9

While these tables are useful for comparative purposes, in regard to the cost of living, the figures do not disclose the most interesting feature in a history of prices, namely, the fluctuations during each year, which are very pronounced in the case of perishable produce.

Potatoes show a remarkable range in prices. The lowest average since 1870 for a whole twelvemonth was 3s. 6d. per cwt. in 1873; and the highest, 10s. 6d., in 1905 and 1906, when the price was higher than at any previous period since 1858.

In the list are included quotations for bread at per 2-lb. loaf. In most years the price has varied directly with that of wheat. In recent years the usual price is from 3d. to 3½d. per loaf.

In addition to the eight commodities which are given in the above statement, the following list of the average retail prices of articles largely used is of interest:—

Year.	Bacon per lb.	Eggs per doz.	Rice per lb.	Oat-meal per lb.	Coffee per lb.	Salt per lb.	Beer (col.) per gal.	Soap per lb.	Starch per lb.	Tobacco per lb. (local.)	Tobacco per lb. (imp.)
	s. d.	s. d.	d.	d.	s. d.	d.	s. d.	d.	s. d.	s. d.	s. d.
1870	0 10½	1 4	3	4	1 2	1	1 4	4	0 7	1 3	3 6
1875	0 9½	1 6	3	3	1 2	1½	3 0	3	0 5	2 0	3 9
1880	0 7½	1 4	3	3	1 5	0¾	2 0	3	0 5½	2 0	4 0
1885	0 10½	1 10	3	3	1 5	0¾	2 0	3	0 6½	3 0	6 0
1890	1 0½	1 6	4	3	2 0	1	2 0	3½	0 5	4 0	6 0
1895	0 7½	1 0	2½	2	1 9	0¾	2 0	2	0 4	4 0	6 0
1900	0 7½	0 11	2½	2½	1 6	0½	2 0	3	0 3½	4 0	6 0
1901	0 8½	1 3	2½	2½	1 6	0½	2 0	3	0 4	4 0	6 0
1902	0 10	1 6	2½	2½	1 6	0½	2 0	3	0 4	4 0	6 0
1903	0 10	1 6	3	2½	1 6	0¾	2 0	4	0 5	4 0	6 0
1904	0 8	1 1	2½	2½	1 6	0¾	2 0	4	0 5	4 0	6 0
1905	0 9	1 0	2½	2½	1 6	0¾	2 0	3½	0 5	4 3	6 0
1906	0 9½	1 0	2½	2½	1 6	0¾	2 0	3½	0 5	4 3	6 0
1907	0 10	1 1	2½	2½	1 6	0¾	2 0	4	0 5	4 3	6 0
1908	0 10	1 3	2½	3	1 6	0¾	2 0	4	0 5	4 3	6 0
1909	0 11½	1 3	2½	3	1 6	0¾	2 0	4	0 5	4 3	6 0
1910	0 10	1 3	2½	2½	1 6	0¾	2 0	3½	0 5	4 3	6 0

In the above quotations the figures are those charged in the shops throughout the metropolitan district. It is possible that produce may have been bought at cheaper rates than those stated; but the figures will be found to

represent the fair average rates, having regard to the class of goods consumed. A mere consideration of prices, however, gives but little idea of the change in the economic condition of the people, for the great improvement in the quality of the articles should also be taken into account.

WHOLESALE PRICES.

The average wholesale prices of the principal kinds of farm and dairy produce are given in the following statement for the seven years, 1904 to 1910. The average for the year represents the mean of the prices ruling during each month, and does not take into account the quantity sold during the month. The figures are those quoted by the middleman and not those obtained by the producers:—

Farm and Dairy Produce.	1904.			1905.			1906.			1907.			1908.			1909.			1910.			
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	
Wheat ...bush.	0	3	2½	0	3	5	0	3	3	0	3	10	0	4	3½	0	4	9½	0	3	10	
Flour ... ton	9	19	0	7	19	6	7	11	6	8	15	0	9	11	0	11	2	0	9	14	6	
Bran ...bush.	0	0	6½	0	0	9½	0	0	9½	0	0	11½	0	1	3	0	0	11½	0	0	10½	
Pollard ... "	0	0	7½	0	1	0½	0	0	10½	0	0	11½	0	1	3½	0	1	1	0	0	10½	
Barley ... "	0	2	2½	0	2	8½	0	3	5½	0	3	5	0	4	9	0	3	1	0	3	0½	
Oats ... "	0	2	2½	0	2	7½	0	2	10½	0	2	10	0	3	3	0	2	5½	0	2	5½	
Maize ... "	0	2	2	0	3	2½	0	3	0	0	3	2½	0	4	7	0	4	2½	0	2	11½	
Potatoes... ton	3	8	9	7	7	6	7	10	0	3	5	0	5	15	0	5	17	0	6	14	8	
Onions ... "	3	10	3	14	8	3	6	9	0	4	8	3	6	5	0	6	16	6	4	16	3	
Hay—																						
Oaten or																						
Wheaten ..	2	19	6	3	5	9	3	12	0	4	6	6	6	5	9	4	2	0	3	17	6	
Lucerne ..	2	6	3	3	0	10	3	17	0	4	19	0	5	4	0	3	19	0	3	1	7	
Straw ... "	1	19	0	1	14	3	2	4	0	2	19	0	4	2	9	4	2	0	4	2	7	
Chaff ... "	3	6	0	3	11	3	3	13	6	4	8	0	6	1	3	4	10	6	4	4	0	
Butter ... lb.	0	0	8	0	0	10	0	0	10	0	0	9½	0	1	0½	0	0	10	0	0	11½	
Cheese(loaf) ..	0	0	4½	0	0	6½	0	0	6	0	0	6½	0	0	8	0	0	7	0	0	6½	
Bacon ... "	0	0	7	0	0	6	0	0	7	0	0	8½	0	0	8½	0	0	8½	0	0	7½	
Eggs ... doz.	0	0	11½	0	0	10	0	0	10	0	0	11	0	1	1	0	1	1	0	1	0½	
Poultry—																						
Fowls ... pair	0	3	6	2	8	0	3	3	0	3	9	0	3	9	0	4	3	0	4	10		
Ducks ... "	0	3	3	0	2	6	0	3	3	0	3	0	0	3	0	0	4	3	0	3	1½	
Geese ... "	0	5	9	0	4	6	0	5	3	0	5	9	0	6	3	0	5	3	0	6	2	
Turkeys... "	0	10	6	0	12	0	0	11	6	0	11	9	0	11	3	0	14	0	0	12	8	
Bee produce—																						
Honey ... lb.	0	0	2	0	0	2½	0	0	3½	0	0	3	0	0	2½	0	0	3	0	0	3½	
Wax ... "	0	1	1½	0	1	1½	0	1	2	0	1	3½	0	1	2½	0	1	2	0	1	2	

The figures call for little comment beyond the caution already given in regard to the prices of commodities generally—that the averages are irrespective of the quantities sold. As regards most of the articles in the list, the lower the price the larger the consumption. The exception to this rule is poultry, which is most in demand before the Christmas season, when prices are correspondingly high.

For locally grown wheat the quotations during 1910 ranged from 4s. 3d. in January to 3s. 4d. in June. Barley and oats are for the most part imported, and the prices of these cereals during the year call for little notice. Maize, on the contrary, is largely of local growth, and its price varied from 4s. 2d. in January to 2s. 6½d. in October. Prices for the various kinds of fodder were very high during the greater part of the year 1908, but showed a considerable decrease during the last three months; the decreased prices continued throughout 1909 and 1910. Root crops show very great range; thus, potatoes varied between £4 5s. in March and £10 10s. per ton in October. In November, 1909, the prices were raised in consequence of the

embargo placed upon the import of Tasmanian potatoes, which were affected by disease, but the price gradually decreased with the advent of the new season's crop until July of the following year, when the price rapidly advanced; onions ranged from £6 8s. in October to £3 18s. in March.

The prices of the items set forth in the tables just given are determined by the local demand, wheat, of course excepted, its price being fixed by that ruling in the markets of the world.

The prices of pastoral and other primary produce, which form so large a proportion of the exports of the State, are not sensibly affected by local consumption, but are established by the prices ruling in London. In the following table are given for five years the Sydney f.o.b. prices of the principal pastoral products:—

Pastoral Produce	1906.	1907.	1908.	1909.	1910.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Beef lb.	0 0 1 ³ / ₄	0 0 2	0 0 2	0 0 2 ¹ / ₂	0 0 2 ¹ / ₂
Mutton „	0 0 2 ¹ / ₄	0 0 2	0 0 2	0 0 2 ¹ / ₂	0 0 2 ¹ / ₂
Wool—Greasy „	0 0 10 ³ / ₄	0 0 11 ³ / ₄	0 0 9 ¹ / ₂	0 0 9	0 0 9 ¹ / ₂
Scoured „	0 1 8	0 1 9	0 1 4 ³ / ₄	0 1 3 ¹ / ₂	0 1 3 ³ / ₄
Sheepskins—with Wool ... bale	30 10 0	28 8 4	17 18 4	19 11 8	20 0 0
Hides each	1 7 6	1 6 4	1 1 1	0 19 3	1 2 0
Leather bale	35 10 0	34 10 0	30 10 0	29 3 4	33 0 0
Hair lb.	0 1 11	0 1 7 ³ / ₄	0 1 4	0 1 5 ¹ / ₂	0 1 4 ¹ / ₂
Bones cwt.	0 8 8	0 7 11 ¹ / ₂	0 7 6	0 7 8 ³ / ₄	0 9 3
Horns 100	1 15 2	1 13 9	1 13 4	2 4 7	2 2 11
Hoofs cwt.	0 8 3	0 6 7	0 6 6	0 6 10	0 6 3
Tallow „	1 4 9	1 11 3 ¹ / ₄	1 8 3	1 7 3	1 10 0
Glue-pieces „	0 10 3	0 9 6	0 7 1	0 6 3	0 7 7

Leather is included as a pastoral product, although it might be regarded as a manufactured article. The prices of wool, the staple product of the State, declined considerably during 1908, and in December the average selling price for greasy wool was 9d. per lb. The prices of the other articles also showed a great decrease during that year. Sheepskins were 37 per cent. lower than in 1907. Greasy wool and scoured wool were over 25 per cent. higher than in 1901, but nearly 20 per cent. lower than in 1907.

In 1909 the decreased prices of the previous year still prevailed, but, on the whole, there was an improvement in the prices obtained for these products during 1910, notably leather, which was 13 per cent. higher than in the previous year. The average selling price of greasy wool was 9¹/₂d. per lb. Sheepskins showed a slight improvement and were 10 per cent. higher than in 1908.

The next table shows the Sydney f.o.b. prices of the principal metals and of coal produced in the State. These, like the pastoral products, are not affected by the local demand, but depend upon the prices obtained in the world's markets:—

Metals.	1906.	1907.	1908.	1909.	1910.
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Silver oz.	0 2 6 ³ / ₄	0 2 6	0 2 0 ⁵ / ₁₆	0 1 11 ¹ / ₂	0 2 1
Copper ton	85 10 0	85 2 4	57 18 0	57 10 0	56 3 4
Tin „	178 18 4	170 9 7	131 5 0	133 2 0	153 3 4
Lead „	16 10 0	18 10 6	13 2 0	12 11 0	12 13 4
Coal „	0 8 9	0 9 10	0 10 7	0 10 8	0 10 8

The values of the industrial metals showed a large decline during 1908, and the low prices continued during the following years, except in the case of tin, which has advanced steadily since the beginning of 1909, is now 17

per cent. higher than in 1908. The value of coal in 1909 is based on the prices ruling during the first ten months, and in 1910, during the period March to December. On the 9th November, 1909, a strike of all the coal-mines of the State took place, and consequently very little coal was exported until March of the following year, and that at a greatly enhanced and, what may be termed, fictitious value.

HOUSE RENTS.

The rents paid for dwellings form a large deduction from the earnings of the industrial class in any community. In the city of Sydney and suburbs, dwellings occupied by the labouring classes yield rents as follows:—Three rooms, from 8s. to 10s. per week; four rooms, from 10s. to 12s. per week; and five rooms, 12s. to 15s. per week. Dwellings of more than five rooms are seldom occupied by labouring-class families, unless there are adult sons and daughters who contribute to the family earnings. The rents vary in the suburbs in accordance with the class of people which constitutes the population; in several of the more recently developed localities it is impossible to obtain dwellings under 12s. 6d. per week, as builders and house agents do not seek to encourage the immigration of the poorer classes to these localities.

Speaking generally, the deduction from a labourer's income for rent exceeds 25 per cent., which, from whatever point it is viewed, must be regarded as excessive.

The progress which has marked the operations of building societies during recent years, particularly those which favour the ballot and sale system of advances, indicates that, to a large extent, the industrial classes are endeavouring to become freeholders.

PRODUCTION FROM ALL INDUSTRIES.

In other chapters of this work details have been given of the various producing industries, and in the following table they have been grouped together so that a clear idea may be gathered of their relative importance in adding to the national wealth. To extend the comparison, the figures for the last two years are shown in contrast.

As previously stated, the figures show the actual value received by the producers at the place of production, and in the manufacturing industry they represent the value added to raw materials by the processes of treatment, not the value of articles manufactured or work done:—

Industry.	Value of Production.			
	Total.		Per head of Population.	
	1908.	1909.	1908.	1909.
	£	£	£ s. d.	£ s. d.
Manufacturing and allied processes..	13,633,000	14,536,000	8 11 7	8 18 11
Agriculture	8,319,000	10,908,000	5 4 9	6 14 3
Dairying	4,064,000	3,983,000	2 11 2	2 9 0
Pastoral industry	18,846,000	19,040,000	11 17 3	11 14 6
Mineral production	8,384,000	7,403,000	5 5 7	4 11 2
Forestry and fisheries	1,165,000	1,096,000	0 14 8	0 13 6
Minor industries (poultry, bees, rabbits, &c.)	1,732,000	1,990,000	1 1 10	1 4 6
Total	56,143,000	58,956,000	35 6 10	36 5 10

The total value of production during 1909 reached the very satisfactory total of £58,956,000. This sum is far in advance of the total of any former year, except that of 1907, which is the highest on record. The pastoral industry has for many years been the chief source of the wealth of the State, the production in 1909 being over 19 millions sterling.

The statement below shows the estimated value of production of the various industries since 1891, and the equivalent values per head of population. The figures are not exact, but are considered the best approximations from the data available:—

Year.	Pastoral.	Agricultural.	Dairying.	Mining.	Other Primary.	Manu- facturing.	Total.
Value of Production. (In thousands, 000 omitted.)							
	£	£	£	£	£	£	£
1891 ...	14,725	3,615	2,735	6,434	758	7,799	36,066
1894 ...	11,168	3,439	2,548	4,947	690	6,880	29,672
1895 ...	11,774	4,101	2,546	4,499	715	7,006	30,641
1896 ...	11,774	5,374	2,546	4,465	715	7,302	32,176
1897 ...	11,823	6,250	2,653	4,616	750	8,079	34,171
1898 ...	13,219	4,875	2,758	4,756	800	8,425	34,833
1899 ...	14,527	5,609	2,543	5,960	639	9,207	38,485
1900 ...	13,707	5,856	3,617	6,362	796	9,656	39,994
1901 ...	12,552	7,060	3,046	5,681	733	9,740	38,812
1902 ...	10,731	4,139	3,403	5,102	695	10,000	34,070
1903 ...	12,777	8,359	3,276	5,958	779	9,600	40,749
1904 ...	13,373	5,414	2,753	6,243	1,699	9,908	39,390
1905 ...	17,113	6,543	3,123	6,897	2,418	10,631	46,725
1906 ...	19,743	7,518	3,425	7,913	3,229	11,906	53,734
1907 ...	22,281	6,588	3,567	10,295	3,090	13,481	59,302
1908 ...	18,846	8,319	4,064	8,384	2,897	13,633	56,143
1909 ...	19,040	10,908	3,983	7,403	3,086	14,536	58,956

Value Per Head.

	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1891 ...	12 17 10	3 3 4	2 7 11	5 12 8	0 13 3	6 16 7	31 11 7
1894 ...	9 2 1	2 16 1	2 1 6	4 0 7	0 11 3	5 12 2	24 3 8
1895 ...	9 8 3	3 5 7	2 0 9	3 11 11	0 11 5	5 12 6	24 9 11
1896 ...	9 5 4	4 4 7	2 0 1	3 10 4	0 11 3	5 14 11	25 6 6
1897 ...	9 3 3	4 16 10	2 1 2	3 11 7	0 11 7	6 5 3	26 9 8
1898 ...	10 1 6	3 14 3	2 2 0	3 12 6	0 12 2	6 8 5	26 10 10
1899 ...	10 17 11	4 4 2	1 18 2	4 9 3	0 9 7	6 18 1	28 17 2
1900 ...	10 2 5	4 6 6	2 13 5	4 13 11	0 11 9	7 2 7	29 10 7
1901 ...	9 3 6	5 3 3	2 4 6	4 3 1	0 10 9	7 2 5	28 7 6
1902 ...	7 13 10	2 19 4	2 8 9	3 13 2	0 9 11	7 3 4	24 8 4
1903 ...	9 0 0	5 17 9	2 6 2	4 3 11	0 11 0	6 15 3	28 14 1
1904 ...	9 4 11	3 14 10	1 18 1	4 6 4	1 3 6	6 17 0	27 4 8
1905 ...	11 11 6	4 8 6	2 2 3	4 13 4	1 12 8	7 3 9	31 12 0
1906 ...	13 0 9	4 19 3	2 5 3	5 4 6	2 2 8	7 17 3	35 9 8
1907 ...	14 6 7	4 4 9	2 5 11	6 12 5	1 19 9	8 13 5	38 2 10
1908 ...	11 17 3	5 4 9	2 11 2	5 5 7	1 16 6	8 11 7	35 6 10
1909 ...	11 14 6	6 14 3	2 9 0	4 11 2	1 18 0	8 18 11	36 5 10

Prior to 1904 the production of poultry and bees was included with Dairying, but has since been included in other Primary industries.

Variations in prices and the conditions of the seasons are both powerful factors in regulating production; but, making allowance for these, there has been a steady advance in all directions throughout the period covered by the above table.

The following table shows the total value of production in various years from 1871 onwards, together with the return per head of population:—

Year.	Value of Production.	Value per head of Population.		
	£	£	s.	d.
1871	15,379,000	30	5	3
1881	25,180,000	32	18	3
1891	36,066,000	31	11	7
1901	38,840,000	28	7	6
1906	53,734,000	35	9	8
1907	59,302,000	38	2	10
1908	56,143,000	35	6	10
1909	58,956,000	36	5	10

These figures show that since 1871 the volume of production has increased by nearly 44 millions, and the value per head of population by £6. From the primary industries alone the return in 1909 was £44,420,000, equal to £27 6s. 10d. per head, or what is perhaps a better standard, £143 2s. 5d. per square mile. This is a magnificent testimony to the wealth of the State, and the bountiful returns which it yields under favourable conditions. The figures are unsurpassed by any country outside Australasia, and afford ample justification for the investment of the capital which has secured such results.

LOCAL GOVERNMENT.

THE development of a system of local government in New South Wales has been extremely slow, as until 1906 less than 1 per cent. of its area was incorporated.

In 1894 a Bill was submitted to the Legislative Assembly, providing for the division of the entire area of the State into boroughs, municipal districts, and shires; but in consequence of the insertion in the Bill of a clause which they considered contrary to a vital principle, the Government abandoned the measure. Other measures were introduced from time to time with no better result, and it was not till the years 1905 and 1906 that legislation was passed giving the State full local government.

The Act of 1842, by which the City of Sydney was incorporated, contained no provision for conferring municipal privileges on other localities; but in 1843 the first step was taken towards the extension of the system to the country districts, by the incorporation, under letters patent, of Campbelltown, Appin, Camden, Narellan, and Picton, as one district council, which was subdivided into two, during the same year, by the formation of Campbelltown and Appin into separate councils.

In 1844 the number of country district councils had increased to eight, and these, in conjunction with the Municipal Council of Sydney and the Road Trusts, subsequently established, constituted the whole of the local government system prior to 1858. In the latter year the first important measure relating to general municipal government was enacted. An Act was passed, making provision for dissolving the district councils, and placing the area controlled by them under municipal bodies. Under its authority thirty-five districts were incorporated, which, with the exception of Cook, joined to Camperdown in 1870, and East St. Leonards and Victoria, subsequently united to St. Leonards, still exist, although the boundaries of nearly one-half have been altered.

Under the Act of 1858, the municipal council was elected by the rate-payers, and its most important functions were to make by-laws for the good government of the municipality; to control roads, bridges, and ferries; and to remove nuisances. The general rate was limited to one shilling in the £ on the annual value of ratable property, but a special rate for water supply, sewerage, and street lighting was permissible. Endowment by the Government was provided during a term of fifteen years, based on the amount of general rates actually collected. No district, however populous, was obliged to become incorporated, and it was only on the presentation of a petition, signed by at least fifty of the prospective ratepayers, and containing a larger number of signatures than those attached to any counter petition, that a municipality could be formed.

The Act of 1858 was repealed by the Municipalities Act of 1867. Under this Act the thirty-five existing municipalities were continued as boroughs, and all areas incorporated in the future were to be classified either as boroughs or municipal districts. Boroughs might include any city, town, or suburb of the metropolis, or any populous country district with a population exceeding 1,000 persons and an area not less than 9 square miles. Municipal districts might include any area not containing a borough, with a population not less than 500 and an area not more than 50 square miles.

The powers of the councils were extended slightly, and the rate remained as before. It was still left optional for any district to become incorporated, and consequently local government was not generally adopted.

The Municipalities Act of 1897 consolidated the Acts and Amending Acts which had been passed from time to time, but did not alter their principles. The voluntary principle of incorporation which was retained was not conducive to the adoption of a general system of local government, as it was natural that, so long as the central Government continued to construct local works, the persons benefited would submit to the absence of local management of their affairs.

The Shires Act, passed at the close of the year 1905, provides for the compulsory division of the State, with the exception of existing municipalities, the whole of the Western Division, the quarantine station, Lord Howe Island, and the Islands in Port Jackson, into local government areas called shires. A sum, not less than £150,000, is paid as endowment annually from the Consolidated Revenue Fund, in the following proportions, viz.:—First-class shires, from nil up to 10s. per £; second-class, 15s. per £; third-class, 20s.; fourth-class, 25s.; fifth-class, 30s.; and sixth-class, 40s. or more. These endowments are payable on the amount of general rates received during the preceding year, but if the necessities of the shire do not warrant an endowment, it will not be paid. The endowment is to be fixed triennially, according to the area, revenue, and expenditure of the shires.

The councils may exercise the following powers:—The care, control, construction, fencing, and maintenance of all public places, except those vested in the Railway Commissioners, or other public bodies, or trustees, and except national works; regulation of traffic; street and road lighting; prevention of bush fires; flood relief and prevention; construction and maintenance of streets, jetties, wharves, and buildings for the transaction of business; and the administration of the Impounding and Public Watering Places Acts. Other powers may be acquired from time to time if the council decide that they are necessary for the good of the shire. Among these are prevention of nuisance; water supply; regulation and licensing of public vehicles and hawkers; management of parks and commons; and the administration of the Public Gates Act and the Native Dog Destruction and Poisoned Baits Act.

The shires are divided into ridings, each riding having equal representation on the council. The members are called councillors, one of whom is elected president. All owners and occupiers of ratable property of annual value not less than £5, over 21 years of age, male and female, unless not naturalised, are entitled to be entered on the electors' roll, and any male person enrolled is qualified to be nominated as a councillor. The usual conditions as to disqualification are provided, also the penalties for acting while not properly qualified. Elections are held triennially, the first of which was on 1st February, 1908.

An important provision in the Act is that the rates are charged on the unimproved value of the land, and not on the annual rental. The rate to be levied must be not less than one penny, nor more than two-pence in the £, unless the minimum rate is more than sufficient to meet the requirements of the shire, in which case representations may be made to the Governor, who may permit a rate of less than 1d. to be levied. The ratable value of coal-mines is fixed at 50 per cent. of the gross value of the average annual output for the preceding three years, and of other mining properties at 40 per cent. for the same period. The minimum

rate in respect of any portion of land is fixed at 2s. 6d. Another important feature of the Act is that when the council imposes a rate of 1d. in the £ on the unimproved capital value, the operation of the Land Tax is suspended. The properties exempt from taxation are:— Commons, parks, cemeteries, hospitals, benevolent institutions, churches, free public libraries, and unoccupied Crown lands.

As already mentioned, amending Bills were introduced at various times, notably in 1894 and 1901; but in 1906 a very comprehensive measure, the Local Government Extension Act, was passed by Parliament.

The first important provision of the 1906 Act is that for the establishment of cities. The Governor may proclaim as a city, any municipality which has had, during the preceding five years, a population exceeding 20,000 persons and a revenue of £20,000, and is an independent centre of population. During the year 1907 the Municipality of Broken Hill was proclaimed a city, in accordance with the Act.

It is also enacted that all municipalities not receiving statutory endowment under the existing Act, if found on investigation to be in necessitous circumstances, shall be entitled to a sum not exceeding 3s. 4d. in the £ on the general rate collected; but if the revenues are sufficient to meet the reasonable requirements under proper management of the corporations, endowment will not be paid. When, however, the estimated responsibility for expenditure transferred with the Land Tax exceeds the amount of the suspended tax, the amount of 3s. 4d. in the £ may be increased, but the endowment must not be greater than the excess of expenditure aforesaid.

The rates are levied on the unimproved value, at an amount to be fixed per £, which must be not less than 1d., but if this rate is more than sufficient to meet the requirements of the municipality it may be reduced. A council which has levied the general rate of 1d. on the unimproved value may impose such additional rate as may be required either on the improved or unimproved value. Special, local, and loan rates may also be imposed on the improved or unimproved value at the option of the council. The conditions as to ratable value are similar to those of the Shires Act, and electors will be enrolled on the same franchise as exists under that Act.

Other important provisions are the power to borrow up to 10 per cent. of the unimproved value, such loans to be guaranteed by the Government; redistribution and reconstruction of existing areas, so that the municipalities may form portions of shires; acquisition of land and works; control of cattle-slaughtering and public health; dealing with noxious animals and plants; safety of the public; regulation of hoardings and other structures. The Governor may proclaim any park, road, bridge, or other public work to be a national work which will be maintained by the State, but which may be handed over to the council at any time. Auditors are appointed, not elected, and Government examiners inspect the accounts.

The Local Government Act of 1906, passed towards the end of that year, deals fully with both shires and municipalities, and came into operation on 1st January, 1907, as regards shires, and on 1st January, 1908, as regards municipalities. It repeals the Shires Act of 1905 and the Local Government Extension Act of 1906, and consolidates their provisions. Under an amending Act passed at the end of 1908, councils must cause a valuation of all ratable land to be made at least once in every three years; provided that they may adopt for any period the whole or any part of the valuations in force at the close of the preceding period.

Before the Local Government Act of 1906 came into operation, a very small portion of the State had been incorporated, as will be seen in the statement below, which gives the area incorporated and unincorporated in 1906 in the three great land divisions of the State:—

Division.	Incorporated.	Unincorporated.	Total.
	sq. miles.	sq. miles.	sq. miles.
Eastern	1,977	93,742	95,719
Central	571	88,579	89,150
Western	232	125,216	125,498
Total	2,830	307,537	310,367

The area incorporated in the Western Division included 41 square miles, the area of the Municipality of Silverton, near Broken Hill, which is now defunct.

On the 31st December, 1909, the area incorporated was as follows: excluding Lord Howe Island, the only part of the State unincorporated is that portion of the Western Division not included in Municipalities. The population in the different groups is also given:—

	Area (sq. miles).	Population.
In Metropolitan Municipalities... ..	149	605,900
In Country Municipalities	2,848	456,280
In Shires	182,113	564,660
Total (incorporated)... ..	185,110	1,626,840
Western Division (portion unincorporated)	125,257	18,504
Total	310,367	1,645,344

INCORPORATION OF THE CITY OF SYDNEY.

The City of Sydney was incorporated on the 20th July, 1842, under the Sydney Municipal Council, the election of aldermen taking place on the 9th November. Mr. John Hosking was the first Mayor. The city was originally divided into six wards, but at a subsequent adjustment the number was increased to eight.

After a few years, great dissatisfaction arose in the minds of the citizens as to the manner in which the affairs of the Corporation were conducted. A Select Committee of the Legislative Council was appointed in 1849 to inquire into the matter, and reported in favour of the abolition of the Municipal Council, with a recommendation that its powers should be vested in three Commissioners. This was not carried into effect until 1853, when the Corporation was dissolved, and its authority was transferred to a Commission of three persons, who administered the affairs of the city from the beginning of 1854 to the end of 1857, when a new Council, under the original conditions, came into existence. Mr. George Thornton was the first Mayor under the changed order of things, and there were sixteen aldermen—two for each ward. By the Sydney Corporation Act of 1879 the number of aldermen was increased to twenty-four, being three representatives for each ward.

Towards the close of 1900 an Amending Act was passed, dividing the city into twelve wards, each returning two aldermen. The innovation of retiring the whole of the aldermen simultaneously was introduced by a provision for the election of a new Council on the 1st December in every second year, re-election of qualified persons being permitted. A candidate is debarred from expending more than £50 in his endeavour to obtain a seat in the Council. The penalty for exceeding that amount is a fine of

£20; and, in the case of an elected candidate, the election is to become void. Another change brought about by the Act is the enfranchisement of sub-tenants and lodgers. Power is given also to the Council to resume land required for opening or enlarging streets and other public places.

The Sydney Corporation Act of 1902 consolidated the statutes previously passed relating to the City of Sydney.

In 1905 a further Amending Act was passed to provide for the better government of the city, especially with regard to the control of hoardings, the proper cleansing of footways, the prevention or regulation of the smoke nuisance from furnaces and chimneys, the regulation and control of refreshment stalls and stands, the control of juvenile hawkers and shoeblacks, and the prevention of betting in public places. The tenure of office of the aldermen was altered to three years.

The Act also regulates the election of the city members of the Metropolitan Board of Water Supply and Sewerage, and the Fire Brigades Board, and extends the power of the Council as regards resumptions, in order to provide workmen's dwellings, and further provision is made for the extension of the city boundaries.

In 1908 an Amending Act was passed, containing several important provisions. Commencing with the year 1909, the Council must levy a rate, not less than one penny in the £, upon the unimproved capital value, which rate is to be in addition to any rate under the Act of 1902. It is provided, however, that the total amount leviable shall not exceed the amount which would be yielded by a rate of three pence in the £ on the unimproved capital value, and two shillings in the £ on the average annual value, taken together, of all ratable property. On the Council imposing such rate on the unimproved capital value, the land tax is suspended. The valuation of the unimproved capital value is to be made at least once in every five years. The Municipality of Camperdown was amalgamated with the City of Sydney as from the 1st January, 1909. The Council was empowered to establish public libraries and milk depôts, to control certain parks, and to widen certain streets. Belmore Markets, the Lending Branch of the Public Library, and various parks and public ways were vested in the Council by the Government under certain conditions.

MUNICIPALITIES.

The Sydney Corporation Act of 1902 directs that improved property within the city shall be assessed at a fair average annual value, with an allowance for outgoings not exceeding 10 per cent., and the unimproved property at a maximum of 6 per cent. on its capital value; and on the value of such assessment a city rate not exceeding 2s. in the £ may be levied, exclusive of lighting. The rate stood at 16d. from 1891 to 1899, but was increased to 18d. for 1900, and 24d. for 1901. In 1902, it was reduced to 22d., and still further reduced to 21d. in 1903, which was also levied from 1904 to 1909. The Act provides for a special local rate not exceeding 6d. in the £ of annual value, for any work which may be for the particular benefit of one locality, but then only if two-thirds of the ratepayers of such locality petition for the same. Occasional advantage of this power has been taken for street-watering, though not of late years, and the amount now levied covers the expenses of street-lighting and street-watering.

The other Councils were empowered to raise revenue by rates not exceeding 1s. in the £ for ordinary purposes and the same amount for special purposes, with 6d. in addition for street-watering. The amount of each rate was calculated upon nine-tenths of the fair average annual rental of all buildings and cultivated lands, or lands let for pastoral,

mining, or other purposes, and upon 5 per cent. of the capital value of the fee-simple of all unimproved lands.

Municipalities which avail themselves of the provisions of the Country Towns Water and Sewerage Act of 1880 are empowered to levy a rate for each service not exceeding a maximum of 10 per cent. on the assessed annual value of land and tenements, in addition to the ordinary municipal rates. Under the Local Government Act, however, a water rate equivalent to this maximum of 10 per cent. on the assessed annual value must be levied either on the unimproved or the improved capital value of lands within the reticulated area.

On the 30th June, 1910, there were forty-three municipalities with waterworks constructed under the provisions of the Act, and nine with sewerage works, but the water-works at Manly, Richmond, and Wollongong were subsequently transferred to the control of the Metropolitan Board of Water Supply and Sewerage.

In order to aid municipalities in providing for the expenditure in their formative stages, the original Act provided for endowment by the State during a period of fifteen years. In each of the first five years after incorporation, every municipality is entitled to a sum equal to the whole amount actually raised by rates or assessments; in each of the next succeeding five years, a sum equal to one-half; and in each of the next succeeding five years, a sum equal to one-fourth of the amount so received. After the expiry of these fifteen years, such assistance ceases, and further aid from the State must be obtained by special grant. At the end of 1909 there were eighteen municipalities entitled to statutory endowment.

VALUATIONS.

It has already been explained that under the Local Government Act of 1906 the basis of rating was changed. The valuations for 1908 and 1909, therefore, cannot be compared with those for previous years, and the following table relates to the ten years ended 1907, the last under the Municipalities Act. It will be observed that, with the exception of the annual value of ratable property in the country districts, both the annual and capital values have increased each year:—

Year.	Sydney and Suburbs.		Country Municipalities.		Total.	
	Annual Value.	Capital Value.	Annual Value.	Capital Value.	Annual Value.	Capital Value.
	£	£	£	£	£	£
1898	4,992,860	87,232,900	2,413,950	33,698,000	7,406,810	120,930,900
1899	5,005,300	87,495,300	2,416,900	33,749,800	7,422,200	121,245,100
1900	5,060,500	88,348,700	2,836,130	36,429,600	7,896,630	124,778,300
1901	5,165,030	89,587,100	2,920,500	37,936,300	8,085,530	127,523,400
1902	5,384,020	91,988,200	2,624,890	36,606,500	8,008,910	128,594,700
1903	5,617,640	96,132,300	2,681,750	38,046,700	8,299,390	134,179,000
1904	5,850,840	98,803,300	2,675,200	38,355,800	8,526,040	137,159,100
1905	5,969,940	100,434,200	2,741,390	39,223,700	8,711,330	139,657,900
1906	6,071,480	101,833,800	2,770,620	39,417,000	8,842,100	141,250,800
1907	6,310,420	103,328,200	2,961,570	41,668,300	9,271,990	144,996,500

The increase between 1898 and 1907 was considerable, the annual value having risen from £7,407,000 to £9,272,000, and the capital value from £120,931,000 to £144,996,500. Part of this increase was due to an additional number of districts incorporated, the area having increased from 1,769,000 to 1,920,000 acres; but when allowance is made for these it will still be found that the capital value increased to a large extent.

Property in the City of Sydney was in 1908 still rated on the basis of the annual rental value, and the following is a comparison of the values in 1908 and 1907:—

	1907.	1908.
	£	£
Annual value	2,323,040	2,499,730
Capital value	45,749,800	49,060,600

The valuations in the City of Sydney for the year 1909, in accordance with the Sydney Corporation (Amendment) Act of 1908 were:—Assessed annual value, £2,292,671; improved capital value, £50,948,240; unimproved capital value, £19,970,365. These figures include the values in Camperdown, which were:—Annual value, £61,940; improved capital value, £1,238,760; and unimproved, £249,439.

VALUATIONS AND RATING UNDER 1906 ACT.

Since the 1st January, 1908, under the Local Government Act of 1906, municipalities must levy a general rate on the unimproved capital value of all ratable land, and may levy additional, general, special, local, or loan rates on either the unimproved or the improved capital value. Municipal rates are no longer charged on the annual value; the only rates based on that value are those charged by the Metropolitan and Hunter District Water Supply and Sewerage Boards.

The unimproved capital value of land is the amount for which the fee-simple estate in such land could be sold under such reasonable conditions as a *bonâ-fide* seller would require, assuming that the actual improvements had not been made.

The improved capital value is the amount for which the fee-simple estate of the land, with all improvements and buildings thereon, could be sold.

The general rate must be not less than 1d. in the £ on the unimproved capital value of all ratable land, and the total amount to be derived from the general rate and additional general rate taken together must not exceed the amount yielded by a rate of 2d. in the £ on the unimproved value and 1s. 6d. in the £ on the assessed annual value of all ratable land. In 1908 and 1909 very few municipalities levied additional general rates, nearly all confining themselves to one general rate. The variation in the rates is rather remarkable. In the suburbs of Sydney they ranged in 1909 from 1d. to 5d. in the £, and in the country from 1d. to 7½d. The number of municipalities levying the rates specified below was as follows, distinguishing suburban from country, and showing the unimproved capital value of the land in each class:—

General Rate Levied.	Number of Municipalities.		Unimproved Capital Value of Land.	
	Suburbs.	Country.	Suburbs.	Country.
1d. and under 2d....	1	35	£ 52,307	£ 4,207,331
2d. „ 3d....	8	38	4,868,214	7,409,968
3d. „ 4d....	17	42	10,750,778	4,774,785
4d. „ 5d....	13	21	7,032,888	1,596,526
5d. „ 6d....	1	9	782,348	803,720
6d. and over	Nil.	4	.....	993,050
Total	40	149	23,486,535	19,785,380

The majority of councils in both divisions levied rates between 3d. and 4d.; the next in number were between 2d. and 3d., and the next between 1d. and 2d. The municipalities which levied 6d. and over in the £ were Aberdeen, Bourke, and Wrightville each 6d., and Broken

Hill 7½d. Only one council, Homebush, in the suburbs, and sixteen in the country levied 1d.

As regards other than general rates, two municipalities, Albury and Casino, levied additional general rates on the unimproved capital value, at ¼d. and 2½d. in the £ respectively, and twenty-one on the improved capital value, ranging from ¼d. to 2d. in the £.

Fifty-eight municipalities levied special and local rates on the unimproved capital value, ranging from ⅓d. to 6d. in the £, and twenty-one on the improved capital value, ranging from ⅓d. to 4d. in the £.

Eight municipalities levied loan rates on the unimproved capital value, ranging from ⅓d. to 1d. in the £, and two on the improved capital value, ranging from ¼d. to ¾d.

The rates levied amounted to £930,895, of which £856,992 were general and additional general rates.

It was generally supposed that, under the new system of rating, the unimproved values would be increased, and the figures for 1908, which showed that the unimproved values of land advanced more than one-third in the country and over one-fifth in the city, largely confirmed this opinion.

The following table, in which the unimproved values and improved values for 1908 and 1909 are compared, however, shows a decline in unimproved values in 1909.

Division.	Unimproved Value.		Improved Value.		
	1908.	1909.	1908.	1909.	Increase.
	£	£	£	£	per cent.
Sydney—City	20,207,812	19,970,365	49,060,600	50,948,240	3·8
Suburbs	23,799,856	23,486,535	56,441,828	57,172,187	1·3
Metropolis	44,007,668	43,456,900	105,502,428	108,120,427	2·5
Country	20,104,983	19,793,286	44,784,238	44,716,888	(-) ·2
Total	64,112,651	63,255,186	150,286,666	152,837,315	1·7

(-) Denotes decrease.

The particulars in respect of unimproved values are somewhat misleading and the decrease in 1909 requires explanation. Owing to the introduction of the new system in 1908, in certain cases the town clerks in that year furnished returns showing ratings before appeal, with the result that the total values are too high. The figures for 1909, on the other hand, represent the values generally as reduced on appeal, and further include values reduced on appeal in that year which could have been, but were not appealed against in 1908.

The difference between the unimproved and improved capital values is, of course, the value of improvements, and the following statement shows that in both the suburbs and country the value of improvements has increased:—

Division.	Value of Improvements.		
	1908.	1909	Increase.
	£	£	per cent.
Sydney—City	28,852,788	30,977,875	7·4
Suburbs	32,641,972	33,685,652	3·2
Metropolis	61,494,760	64,663,527	5·2
Country	24,679,255	24,918,602	1·0
Total	86,174,015	89,582,129	3·9

For the same reason that unimproved values for 1908 are exaggerated the values of the improvements stand at a higher figure. This fact should not, therefore, be forgotten when comparing the values of improvements in 1908 and 1909.

The steady increase in the value of improvements may be taken as indicative of municipal prosperity, taken together with existing industrial conditions. Of late years, and particularly in the city, there has been an increasingly marked activity in the building trade; old buildings have been demolished and have been replaced by more extensive structures, made still more valuable by reason of the increased cost of labour and materials.

The unimproved capital value of ratable land in municipalities is £63,255,000, and in shires £83,464,000, the total of the two being £146,719,000. If to this be added £10,000,000, the estimated unimproved value of unincorporated land in the Western Division, the unimproved value of the land of the State, excluding a small area exempt from taxation, is £156,719,000. The value placed upon land in the Western Division is 2s. 6d. per acre, which is over 25 per cent. lower than in the shire in the west of the Eastern Division with the lowest value per acre, and cannot be considered high.

The value of improvements in municipalities is £89,582,000, or 141 per cent. of the unimproved value. In the suburbs it is 144 per cent. and in the country 126 per cent. The value of improvements is not available for all the shires, but assuming that it is the same proportion of the unimproved value as the average in those which are known, namely, about equal to the unimproved value, a value of, say, £83,000,000 is obtained. In the Western Division it may be placed at £10,000,000, so that for the whole State the following values are obtained:—

Division.	Unimproved Value of Land.			Value of Improvements.		
	Total.	Per Head.	Per Acre.	Total.	Per Head.	Per Acre.
	£	£	£ s. d.	£	£	£ s. d.
Sydney—City ...	19,970,000	158	6,002 8 1	30,978,000	244	9,311 1 10
Suburbs ...	23,487,000	49	255 9 8	33,686,000	70	366 8 5
Metropolis ...	43,457,000	72	456 3 11	64,664,000	107	678 17 8
Country Municipalities	19,798,000	43	10 17 4	24,919,000	55	13 13 5
Shires ...	83,464,000	148	0 14 4	83,000,000	147	0 14 3
Western Division (part unincorporated).	10,000,000	492	0 2 6	10,000,000	492	0 2 6
State ...	156,719,000	95	0 15 9	182,583,000	111	0 18 5

The real property of the State, worth £339,302,000, and equivalent to £206 per head, is a most valuable asset.

FINANCES.

The Local Government Act of 1906 prescribes that there must be a general fund in each local governing area (municipality or shire), to which must be paid the proceeds of all general and additional general rates, any moneys received by way of grant, endowment, &c., from the Government, and other income not required by law to be carried to other funds. The expenditure from the fund must be on administration, health, roads, and other public services.

In addition, in each local area there must be a special fund for each special rate levied, and for each work or service carried on by the council in respect of which the special rate has been made, and the fund may be applied only for the purposes of such work or service. A special rate is

levied for a special purpose, and applies to the whole area. Likewise a local fund must be kept for each local rate levied, with similar restrictions to those in the case of special funds. A local rate is levied for a local purpose, and applies only to that portion of the area which is benefited. The expenditure of the local fund is restricted to work within or for the sole benefit of that portion of the area.

Where any borrowed money is owing by a council a separate loan fund must be kept in respect of each work or service on which the loan is owing. Except where a Loan Fund has its own revenue as from rates, the obligations attendant thereon, such as provision for the repayment of principal and interest, may be met by transfers from the General Fund or other appropriate fund. The object of the loan, as a rule, determines the source from which the Loan Fund shall obtain its necessary revenue. When the loans have been raised for general purposes, transfers are made from the General Fund, and the profits of trading concerns provide for the disbursements of their corresponding loan funds.

The revenue of special and local funds may be used in a similar manner; for example—Street Lighting Special Fund must provide the money to meet not only the ordinary cost of maintaining the street lighting for the year, but also the obligations of the Street Lighting Loan Fund; and similarly with Sewerage, Water Supply, and other Special and Loan Funds.

The above has reference more particularly to those Loan Funds which must be kept in respect of loans, which were raised before the new Act came into operation, that is to say,—loans raised when the law did not require (as it does now) a loan-rate to be levied to pay interest and provide for the extinction within a fixed period of each loan raised. It is apparent, therefore, that all new loans will be self-supporting, quite apart from the question whether the loan undertakings are profitable or not. In these latter cases the councils may either use profits to swell the amount which is being provided to repay, or retain them in the working accounts of the undertakings (that is, in the Special, Local, or Trading Funds, as the case may be).

The Regulations under the Act prescribe the system of accounts to be kept. The accounts must be "Income and Expenditure Accounts," kept by double entry, and each "Fund" must have a separate banking account. Thus there is shown for each General, Special, Local, Loan or Trading Fund of each area concerned, a "Revenue Account" (or Profit and Loss Account), giving the total expenditure chargeable for the period (whether paid or unpaid), and the total income for the same period (whether received or outstanding). A balance-sheet is also shown for each Fund with appropriate liabilities and assets. Only "realisable" assets are allowed to be included, so that the whole of the roads, bridges, drains, and much other constructive work, which are taken to account elsewhere as assets, are here excluded.

Thus it will be seen that the system of accounts now kept differs materially from the old "cash" system of receipts (cash actually received) and disbursements (cash actually expended), and the municipal accounts for 1908 and subsequent years must be considered apart as the financial results cannot be compared with those of previous years.

In all statements of municipal accounts of the year 1908, the period under discussion relates to the part of the year from 4th February to 31st December, but in 1909 the municipal year begins on 1st January.

The Council of the City of Sydney conducts its affairs under the City Corporation Act, and therefore is not bound by the provisions of the Local Government Act, which is of a later date. With the exception of the Electric Lighting Fund, the various accounts of the city are kept

on a "cash" basis, and apart from the fact that those accounts show receipts and disbursements in respect of both capital and revenue, the information cannot in many instances be allocated to the headings of expenditure and income as set out in the system of accounts prescribed under the Local Government regulations. It is obvious, therefore, that when discussing the financial transactions of the whole municipal area of the State an endeavour to collate similar information from two entirely different systems of accounts would serve no useful purpose, and the figures for statistical comparison would be of doubtful value.

For the reasons stated above, the following particulars relating to municipal accounts are divided into two parts, one dealing with the City of Sydney and the other with the suburbs of Sydney and country municipalities.

CITY OF SYDNEY—RECEIPTS.

The receipts from the various funds, exclusive of the Electric Lighting Fund, in 1909 amounted to £417,223, the City Fund contributing £360,174, the Public Markets Fund £30,383, and the Cattle Saleyards Fund £26,666.

The total receipts exceeded the disbursements by £33,494. Although abstracts of receipts and disbursements in respect of the Public Markets and the Cattle Saleyards Funds are shown in the city accounts, those funds are really subsidiary to the City Fund, their balances at the end of the year being transferred and shown as adjustments in that fund.

The following is a statement of the receipts of the City Fund under appropriate headings:—

	£
General Purposes	283,147
Works	28,453
Health Administration	9,364
Public Services... ..	6,451
Municipal Property	20,116
Miscellaneous	12,643
Total	£360,174

Rates from old wards £196,795, and from Camperdown £5,477, together with Land Tax £78,723, form by far the greater part of the receipts under the heading "General Purposes." As provided by the amending Act of 1908, rating on the unimproved value of land was first brought into force in 1909, and that such a large amount should be realised with the minimum rating of 1d. in the £ shows the importance to be attached to the acquisition of the transferred Land Tax as an addition to the city finances. The revenue from city improvements amounted to £23,369 or 82·1 per cent. of the total from works; resumptions were responsible for £11,306, or more than half the receipts from municipal property.

DISBURSEMENTS.

The disbursements of the City Fund in 1909 amounted to £333,062, of the Public Markets Fund £34,048, and of the Cattle Saleyards Fund £16,619, making a total of £383,729. Shown under the same headings as the receipts, the following were the disbursements of the City Fund:—

	£
General Purposes	39,269
Works	82,750
Health Administration	62,114
Public Services... ..	56,425
Municipal Property	12,252
Miscellaneous	80,252
Total	£333,062

Salaries which amounted to £29,559 absorbed a very large share of the expenses for General Purposes. Out of the sum spent on Public Works, Health Administration, and Public Services, streets, footpaths, &c., claimed £63,944, City Cleansing cost £45,464, and Street Lighting £20,444. The large amount shown under "Miscellaneous" includes the Annual Debenture indebtedness, which in 1909 was £52,132 for Interest, Commission, &c., and £13,235 for Sinking Fund contributions.

With the transfer of the Land Tax, the amending Act of 1908 provided that the City Council should take over the control or bear the expenditure contingent to certain works and services hitherto a charge on the Government. As a result of this enactment the following items appear as disbursements for the first time in 1909:—Pymont Bridge, £7,300; Medical Officer of Health, £1,600; Traffic Regulation, £7,500; Observatory Park, £869; and Domain Lighting, £934. The first three items mentioned are annual statutory payments to the Crown, as the works and services concerned are still under Government control.

The receipts and disbursements of the Public Markets Fund, as stated above, were £30,383 and £34,048 respectively, showing a deficit of £3,665 on the year's transactions. Although the Queen Victoria Markets brought in revenue to the extent of £17,094, or over 50 per cent. of the total, that amount was insufficient to meet even the interest charges on Capital Expenditure and Sinking Fund contributions which together amounted to £18,470. The total outlay was £24,643 or £7,549 in excess of the receipts.

The following statement shows the net result of the transactions of the year in respect of each source of revenue included in the fund:—

Balances transferred to City Fund.					
	<i>Dr.</i>			£	£
Fish Markets ... ..	...	...	...	1,628	
Cooling Chamber ... ..	...	...	...	253	
Queen Victoria Markets ... ..	...	...	...	7,549	
					9,430
	<i>Cr.</i>				
Belmore (New) ... ..	...	...	...	3,605	
Belmore (Old) ... ..	...	...	...	1,821	
Municipal, No. 1 ... ..	...	...	...	339	
					5,765
Net Deficit					£3,665

The Council expended £16,619 on the Cattle Saleyards during the year and received in return revenue amounting to £26,666, leaving a credit balance of £10,047 to be transferred to the City Fund. Both receipts and disbursements are unduly inflated by the inclusion of an item of £10,971 expended on capital works and repaid during the year.

The next item to be considered is the accounts of the Electric Lighting Fund, which, as has already been stated, unlike the other funds of the city, is kept on the double-entry system.

The following is the Revenue Account:—

Expenditure.		Income.	
	£		£
Generation of Electricity	29,094	Private Lighting	65,242
Distribution	17,146	Public Lighting	16,228
Management, &c.	6,677	Power Supply	29,525
Special Charges	14,362	Rentals—Meters, Motors, Lamps,	
Bad debts written off	59	&c.	7,136
Total	£67,338	Net Revenue—Company Pur-	
Balance carried to Net Revenue		chases	10,705
Account	61,642	Miscellaneous	144
Total	£128,980	Total	£128,980

Generation forms the largest item of expenditure, accounting for 43·2 per cent. of the whole. Distribution cost 25·4, and management 9·9 per cent. The special charges were monthly payments on account of transferred customers to companies whose works were purchased by the City Council. They are, however, a gross expenditure only, as after expenses of management, &c., have been deducted the municipality is credited with the balance amounting to £10,705, as shown on the income side of the account.

The sales of current to the public for light and power, including £28,302 to transferred customers of company purchases, together amounted to £95,265, and the sales to the Council realised £16,466.

The principal charges, out of a total of £39,990 against the gross profit of £61,642 carried to the Net Reserve Account, were:—Interest on Debentures, £19,322; Interest on Balances—Company purchases, £5,253; Sinking Fund contribution, £4,717; and Depreciation Reserve Account, £14,556. It will be seen from the foregoing that the net gain for the year was £17,482, which added to the net profit from 1908, viz., £4,170, gives a total of £21,652 credited to profit and loss at the end of 1909.

Below is a summary of the balance-sheet of the Electric Lighting Fund on 31st December, 1909:—

Liabilities.		Assets.	
£		£	
Debenture Loans... ..	560,000	Capital Expenditure — Land, Buildings, Machinery, Plant, &c.	534,280
Company Purchases—Balance of Purchase Money	79,460	Goodwills—Company Purchases	110,375
Sinking Fund	20,611	New South Wales Treasury— Sinking Fund Investments ...	20,611
Reserve Accounts	45,579	Bank Balance	30,767
Sundry Creditors... ..	13,408	Other	44,677
Balance—Net Revenue Account	21,652		
	<u>£740,710</u>		<u>£740,710</u>

The Loan Capital, which forms more than two-thirds of the liabilities, returned only 3·1 per cent. profit for the year, but consideration of the fact that the interest payments and Sinking Fund contribution for the year amounted to £29,292, that £14,566 was allowed for depreciation, and that the Sinking Fund is represented by an investment of £20,611 in Government Stock will show that the finances of the Sydney Electric Lighting Fund are in a healthy condition.

The following is a summary of liabilities and assets of all funds of the City of Sydney.

Liabilities.		Assets.	
£		£	
Debentures current	2,679,000	Bank Balances Cr.	186,597
Bank Balances, Dr.	110,977	Rates Outstanding	9,303
Sundry Creditors	20,026	Landed Properties, Baths, and Sundries	2,592,811
Debenture Interest Account, Ser- vices payable, and Sundries	184,576	Machinery, Plant, Furniture, Stores, &c.	617,696
		Sunday Debtors	20,537
		Sinking Funds	220,622
		Investments	29,593
	<u>£2,994,579</u>		<u>£3,677,159</u>

Notwithstanding the large Loan indebtedness the assets exceed the liabilities by £682,580. It should be noted that the Debentures include £560,000 borrowed in connection with Electric Lighting, and £450,000 for Public Markets, and that as the proceeds of such loans have been spent on reproductive municipal works, such works should provide the annual interest charges and sinking fund contributions. It follows that "rate" revenue is relieved to the extent that annual liabilities of this nature are so liquidated. It is true that the Electric Lighting Fund is quite self-supporting; but, then again, the loss on Queen Victoria Markets, which as stated above was in 1909, £7,549, becomes a charge on the city rates. Landed properties, baths, &c., which comprise over 70 per cent. of the assets, include such large items as "Public Markets £954,480," "Town Hall £541,333," "Resumptions £589,247," "Electric Light Buildings, Works, &c., £124,336," and "Cattle Saleyards £95,000." The accumulated "Sinking Fund £220,622," as against a Debenture debt of £2,679,000 must be regarded as a satisfactory cover.

The following table is appended for the purpose of showing the progress of the city during the last three years:—

Particulars.	1907.	1908.	1909.
Area Acres	2,892	2,892	3,327
Population No.	118,370	118,380	126,700
Unimproved Capital Value £	20,207,812	20,207,812	19,970,365
Improved Capital Value £	45,749,800	49,060,600	50,948,240
Assessed Annual Value £	2,090,736	2,249,760	2,292,671
City Fund—			
Receipts—Rates £	193,053	194,627	202,272
Land Tax ... .. £	...	...	78,723
All other sources £	45,033	107,325	79,179
Total £	238,086	301,952	360,174
Disbursements £	229,335	317,740	333,062
Public Markets Fund—			
Receipts £	30,074	29,579	30,383
Disbursements £	34,211	33,638	34,048
Cattle Sale-yards Fund—			
Receipts £	11,716	15,007	26,666
Disbursements £	4,992	6,493	16,619
Electricity Works Fund—			
Expenditure £	57,625	89,430	111,498
Income £	65,868	93,600	128,980
Liabilities—All Funds £	2,028,764	2,408,062	2,994,579
Assets—All Funds £	2,324,902	2,622,898	3,677,159
Loans outstanding 31st December £	1,880,000	2,195,000	2,679,000
Sinking Fund £	167,061	191,070	220,621

The increase in area in 1909 is due to the inclusion of Camperdown as a ward of the city, and for the same reason an increased population appears in that year.

The tendency of a city population as opposed to a city and suburban population is to decrease rather than increase. Three important factors have combined to make this particularly applicable to Sydney—private enterprise shown by the building of extensive premises designed almost entirely for business purposes, improved facilities for reaching suburban areas by quicker and cheaper means of transport, and perhaps the most important, the council's policy of city improvement by demolishing "slums" and opening up new streets, which must force the population outwards.

The steady progression in the city finances indicated in the above statement is marred by the figures relating to the Public Markets Fund,

which shows a loss on each year's transactions, attributable almost wholly to the Queen Victoria Markets, imposing as they do an annual incubus of about £8,000 on the city rates.

Each year's returns emphasise the rapid and at the same time profitable expansion of the electric lighting undertaking.

The lights were used for the first time on 8th July, 1904, when parts of the city were illuminated. Since that date great progress has been made, and the public parks as well as the remainder of the streets under the control of the council are now included. The income from this source was nearly 96 per cent. greater than in 1907, and with only a relative increase in expenditure.

The cattle saleyards form another productive asset, the transactions thereof showing each year an increasing surplus.

Although additions are continually being made to the loans current it will be seen by a glance at the above figures that the sinking fund obligations have been strictly fulfilled.

SUBURBS OF SYDNEY AND COUNTRY MUNICIPALITIES.

As already stated, with 1908 begins a new era in the municipal book-keeping of this State, and for the same reason that the accounts of the City of Sydney cannot be included with those of municipalities working under the provisions of the Local Government Act, the transactions of the latter for the years 1908 and 1909 cannot, with any advantage, be compared with those of earlier years when the accounts were kept on a "cash basis." The figures in the accompanying tables therefore relate to 1908 and 1909 only.

The value of the statistical information disclosed is somewhat discounted by the exclusion of particulars in respect of Balranald and Broken Hill, and the figures relating to the Water Supply Special Fund for Junee, the municipalities in question having neglected to furnish the prescribed returns up to the time of going to press.

EXPENDITURE.

The total expenditure during 1909 by the various municipalities under the Local Government Act amounted to £881,604, which was £74,889 less than the income. The following statement shows the expenditure allocated to the various funds for 1908 and 1909:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
	£	£	£	£	£	£
General Fund	348,765	290,062	638,827	416,211	311,426	727,637
Trading Accounts	7,078	50,167	57,245	6,327	72,201	78,528
Special and Local Funds	33,288	25,133	58,421	35,999	51,486	67,485
Loan Funds						
	393,987	432,991	826,978	476,433	553,107	1,029,540
Gross Expenditure	43,601	59,082	82,683	49,893	98,043	147,936
Deduct Transfers... ..						
Net expenditure	350,386	393,909	744,295	426,540	455,064	881,604

The greatest expenditure was naturally from the General Fund, which accounted for 70·6 per cent. of the whole, as against 77·2 in 1908.

The trading concerns of the municipalities are gas and electricity; the special and local funds relate to water supply, sewerage, street-watering, street-lighting, old loans interest, and a few other miscellaneous matters.

A review of the figures in the preceding table shows a substantial increase in the expenditure of each fund for 1909 over 1908, indicating

Of the expenditure by municipalities, 12·9 per cent. was on administrative expenses, 47·0 per cent. on public works. Of the administrative expenses, salaries were the largest. The relative cost of administration in the country is high, being 16·7 per cent. of the total expenditure; the suburban municipalities spend only 10·2 per cent. under the same heading. That the corresponding percentages were higher in 1908, being 18·3 and 13·0 respectively, is an index of improved management in 1909. The significance of the foregoing remarks, showing the effect of the amended Act on certain items of expenditure, may be more readily understood by glancing at the relative cost of these items as set out in the above table. The high relative cost of administration in the country is due, no doubt, to the sparse population and small revenue of many of the country municipalities. In such cases, the expenses on account of salaries, &c., would naturally be larger proportionately than in the more closely-settled localities in the suburbs. Public Services for 1909 include:—Pounds, £469; street-watering, £4,884; street-lighting, £63,167; and all other services, £24,434. The greatest part of the expenditure on Public Works was on roads, streets, &c., as will be seen below:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
	£	£	£	£	£	£
Roads, streets, culverts, &c.,...	147,472	108,316	255,788	200,720	120,592	321,312
Bridges	148	2,717	2,865	1,276	6,358	7,634
Drains, sewers, &c.	1,583	2,028	3,611	4,731	3,206	7,937
Ferries	157	1,062	1,219	197	1,131	1,328
Wharfs and jetties	829	739	1,568	1,605	759	2,364
Sundries	215	174	389	1,282	777	2,059
Total	150,404	115,036	265,440	209,811	132,823	342,634

Of the expenditure on roads, streets, &c., in 1909, £184,428 were spent on maintenance, renewals, and repairs; £52,213 on construction; £20,689 on street and gutter cleaning; £27,221 on kerbing and guttering; 29,519 on footpaths; and £7,242 on sundries, a large part of which was absorbed by tree-planting.

The Trading Accounts, which relate to the supply of gas or electricity, will be treated later under those headings, and the special Water and Sewerage Funds will also be discussed.

INCOME.

The total income of all the municipalities brought under the provisions of the "Local Government Act of 1906," in 1909, was £956,493, including £30,886 received as endowments or grants from the Government. This was £74,889 in excess of total expenditure. Under the same funds as in the expenditure the income for 1908 and 1909 is shown below:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
	£	£	£	£	£	£
General Fund	382,739	320,670	703,409	413,220	297,710	710,930
Trading Accounts	6,863	59,814	66,677	6,076	77,069	83,145
Special and Local Funds	3,192	70,312	73,504	21,168	176,704	197,872
Loan Funds	43,601	39,082	82,683	46,220	66,262	112,482
Gross Income	436,395	489,878	926,273	486,884	617,745	1,104,629
Deduct Transfers... ..	43,601	39,082	82,683	49,893	98,043	147,936
Net Income	£392,794	450,796	843,590	436,991	519,702	956,693

Details of the items of the General Fund for 1908 and 1909 are as follows:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
General Purposes—	£	£	£	£	£	£
Rates levied (including interest)	327,255	217,084	544,339	338,796	220,015	558,811
Government Endowments, &c.	606	4,791	5,397	684	6,269	6,953
Sundries	4,398	4,932	9,330	6,675	6,493	13,168
Public Works, including Government Grants.	18,247	19,342	37,589	29,050	18,410	47,460
Health Administration, including Government Grants for Parks and Gardens.	19,462	49,756	69,218	16,202	12,456	28,658
Public Services, including Government Grants.	2,678	8,952	11,630	4,462	9,743	14,205
Municipal Property	7,306	15,347	22,653	11,450	20,493	31,943
Miscellaneous	2,787	466	3,253	5,901	3,831	9,732
Total	382,739	320,670	703,409	413,220	297,710	710,930

Comparing this statement with the expenditure of the General Fund, it will be found that the income in 1909 was £16,707 in excess. Included in the rates levied is an amount of £5,091, being interest due on unpaid rates.

To the income from public works, the Government contributed £17,155 as grants for roads, streets, &c., and £375 as grants for ferries.

Under Health Administration are included Government grants for Parks, &c., amounting to £5,132. The Government also granted £503 for General Purposes, and for Public Services, £770, including £725 for Baths and Sea Bathing.

Stating the income under each head as a percentage of the total income of the General Fund, the following results are obtained:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
General Purposes—	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.
Rates levied (including interest)	85·5	67·7	77·4	82·0	73·9	78·6
Government Endowments, &c.	·2	1·5	·8	2	2·1	1·0
Sundries	1·1	1·6	1·3	1·6	2·2	1·8
Public Works, including—						
Government Grants	4·8	6·0	5·3	7·0	6·2	6·7
Health Administration	5·1	15·5	9·8	3·9	4·2	4·0
Public Services, including—						
Government Grants	·7	2·8	1·7	1·1	3·2	2·0
Municipal Property	1·9	4·8	3·2	2·8	6·9	4·5
Miscellaneous	·7	·1	·5	1·4	1·3	1·4
Total	100·0	100·0	100·0	100·0	100·0	100·0

The bulk of the general income was received from rates, the average for all municipalities being 78·6 per cent. In the suburbs it was 82 per cent., and in the country 73·9 per cent. The next important source of income was from Public Works, but it should be remembered that about 38 per cent. of its contribution was provided by the Government by way of grants. By the transfer of the Sanitary and Garbage Services from the General Fund, as provided by the 1908 Amendment of the Act,

Health Administration in 1909 lost its most important factor of revenue, contributing only 4 per cent. of the total as against 9·8 per cent. in 1908. The difference is still more marked in the country, where the proportions are 15·5 per cent. in 1908 and 4·2 per cent. in 1909. In the suburbs, the Metropolitan Sewerage Board levies charges in addition to those made by the municipalities.

SPECIAL AND LOCAL FUNDS.

The expenditure and income of the Special and Local funds for the years 1908 and 1909 are shown in the following table:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
Expenditure.						
	£	£	£	£	£	£
Water Supply ... ..	.....	51,139	51,139	.....	55,067	55,067
Sewerage ... ..	.....	4,468	4,468	.....	3,117	3,117
Sanitary and Garbage ... ..	.....	.....	.....	9,033	58,430	67,463
Street Lighting	2,270	6,342	8,612	.....	15,581	15,581
Street Watering	1,887	208	2,095	2,718	347	3,065
Old Loans' Interest	327	2,182	2,509	6,056	1,682	7,738
Miscellaneous	372	3,290	3,662	89	3,770	3,859
Income.						
	£	£	£	£	£	£
Water Supply ... ..	.....	53,991	53,991	.....	60,950	60,950
Sewerage ... ..	.....	3,159	3,159	.....	3,627	3,627
Sanitary and Garbage ... ..	.....	.....	.....	10,788	87,223	98,001
Street Lighting ... ..	.....	5,996	5,996	.....	17,645	17,645
Street Watering	2,724	308	3,032	2,151	326	2,477
Old Loans' Interest	442	2,217	2,659	7,792	2,003	9,795
Miscellaneous	26	4,641	4,667	447	4,930	5,377

BALANCE SHEET.

The financial position of the municipalities, as at 31st December, 1908 and 1909, is shown by the following statement of liabilities and assets of the various funds:—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
Liabilities—						
General Fund ..	£ 60,468	£ 68,851	£ 129,319	£ 43,127	£ 57,374	£ 100,501
Trading Accounts ...	2,337	22,492	24,829	1,826	10,613	12,439
Special and Local Funds	254	766,653	766,907	1,710	830,011	831,721
Loan Funds	784,585	628,341	1,412,926	778,430	624,564	1,402,994
Total	847,644	1,486,337	2,333,981	825,093	1,522,562	2,347,655
Assets—						
General Fund	230,562	442,157	672,719	226,053	414,635	640,688
Trading Accounts ...	1,890	65,151	67,041	1,343	38,279	39,622
Special and Local Funds	2,639	791,382	794,021	7,367	897,941	905,308
Loan Funds	153,698	402,854	556,552	156,158	446,273	602,431
Total	388,789	1,701,544	2,090,333	390,921	1,797,128	2,188,049

Every municipality must keep a General Fund. The liabilities thereof consist mostly of temporary loans and overdrafts, but the assets are more than sufficient to meet them. In only four municipalities in 1908 and three in 1909 was there an excess of liabilities. The liabilities and assets of the General Fund in the various municipalities, as at 31st December, 1908 and 1909, are shown below :—

	1908.			1909.		
	Suburbs of Sydney.	Country.	Total.	Suburbs of Sydney.	Country.	Total.
Liabilities—	£	£	£	£	£	£
Temporary loans	11,191	18,079	29,270	17,032	12,918	29,950
Overdrafts	8,817	11,449	20,266	.....	4,634	4,634
Sundry creditors (including amounts due to other Funds)	39,211	29,856	69,067	24,506	34,696	59,202
Other	1,249	9,467	10,716	1,589	5,126	6,715
Total	60,468	68,851	129,319	43,127	57,374	100,501
Assets—						
Outstanding rates (including interest)	49,358	89,196	138,554	34,480	74,553	109,033
Stores and materials	2,902	4,457	7,359	3,355	6,136	9,491
Bank balance and cash	31,811	46,234	78,045	33,656	43,387	77,043
Land and buildings	117,694	232,266	349,960	113,326	212,254	325,580
Plant and furniture	14,525	44,309	58,834	20,252	39,601	59,853
Other	14,272	25,695	39,967	20,984	38,704	59,688
Total	230,562	442,157	672,719	226,053	414,635	640,688

The principal asset of the municipalities consists of land and buildings, which were, at the end of 1909, valued at £325,580, or 58·2 per cent. of the total assets. Outstanding rates amounted to £109,033, while bank balances and cash in hand were equal to £77,043.

LOANS.

The total amount of loans raised during 1909 was £717,643, including £574,000 borrowed by the City of Sydney and allowing for additions and reductions of secured overdrafts; while the sinking funds were increased by £34,417. Most of the new loans in the suburban and country districts were renewals, opportunity naturally being taken of the general reduction in the rates of interest to considerably reduce the annual liability in respect of interest charges. Apart from the liability of the State under the Country Towns Water and Sewerage Act, the total amount of loans outstanding at the close of the year was £4,124,593, and towards this amount there was at the credit of the sinking funds a sum of £256,946.

Rates of interest ranged from 3 per cent., which was carried by £1,227 to 7 per cent., which, however, was payable only on £562; and the amount paid as interest on loans during the year was £161,132. The total indebtedness was £4,124,593, bearing an average rate of interest of 4·08 per cent., viz., 3·89 per cent. on the loans of the City of Sydney, 3·9 per cent. on those of the suburban municipalities, and 4 per cent. on those of the country municipalities.

The average rate of interest payable on all loans is scarcely, however, an index of the true value of municipal debentures to the investors, as out of a total debt of £4,124,593 the sum of £1,942,326 pays interest at 4 per cent., £525,565 at $3\frac{1}{8}$ per cent., and £518,950 at $3\frac{1}{2}$ per cent. Of these amounts the metropolitan municipalities are responsible for £1,809,056, £525,565, and £518,950 respectively. The country municipalities borrowed £220,165 at $4\frac{1}{2}$ per cent., £138,044 at 5 per cent., and £133,270 at 4 per cent.

The total debt per head of population living in municipalities amounted to £3 17s. 8d. without allowance being made for sinking funds, while the yearly charge for interest is 3s. 2d. per head. These sums, compared with the resources of the municipalities, appear by no means formidable.

The following are the outstanding loans on the 31st December, 1909, and the sinking funds set apart to meet them:—

Division.	Loans Outstanding.			Sinking Funds.	Interest paid on Loans, 1909.
	New South Wales.	London.	Total.		
	£	£	£	£	£
Sydney—City	1,769,000	910,000	2,679,000	220,621	104,289
„ Suburbs	651,257	116,500	767,757	13,365	31,406
Country	535,730	24,609	560,339	22,960	25,437
Total	£ 2,955,987	1,051,109	4,007,096	256,946	161,132

Temporary loans, amounting altogether to £56,443, which bear interest at current bank rates, and loans payable on demand amounting to £61,054, are excluded from the above table.

The loans are redeemable at various periods from 1910 to 1947, and the total amount to be repaid in London was £1,051,109, or rather less than one-fourth of the total, and the total amount of debentures held locally was £2,955,987.

The majority of the loans are renewable at maturity, and sinking funds have been established in connection with several of the issues, the aggregate amount of which, at the end of 1909, was £256,946.

Under the Local Government Act, 1906, a municipality may borrow to an amount which, with existing loans, does not exceed 10 per cent. of the unimproved capital value of ratable lands. Where, at the commencement of the Act, any municipality had exceeded this limit, it could not borrow further until the total amount owing had fallen below the limit.

Purposes for which loans may be raised are prescribed (a) for permanent improvements or works; (b) for any object which the Council may legally effect; and (c) for the repayment of former loans. All loans are to be borrowed on the credit of the municipality, and to be a charge upon the revenues.

It has been explained previously that, in respect of municipalities operating under the regulations of the Local Government Act, a separate loan fund must be kept relating to each work or service for which loans are raised. There are, therefore, numerous funds relating to such matters.

as permanent improvements, town hall and other property, garbage service, wharves, electricity, gas, cattle sale-yards, street-watering, and others.

It has been considered inadvisable to show the revenue accounts of these funds, as their revenue practically consists of transfers from other funds to repay principal and interest, and there is a danger of duplication in quoting them. The following is a statement of the total liabilities and assets of all the funds. It is incomplete to some extent, as several municipalities, where a loan related to a trading concern or public work, have included the assets in the balance sheet of those concerns, and not in the balance sheet of the loan fund.

	Suburbs.	Country.	Total.
Liabilities—	£	£	£
Loans current	769,814	605,371	1,375,185
Interest due and unpaid... ..	8,616	16,418	25,034
Other ... ..	.....	2,775	2,775
Total	£ 778,430	624,564	1,402,994
Assets—			
Bank balance and cash	3,867	9,496	13,363
Sundry creditors (including amounts due from other funds.)... ..	5,707	20,093	25,800
Land and buildings	81,209	142,720	223,929
Plant, &c.	53,184	219,596	272,780
Investments	8,688	5,494	14,182
Other	3,503	48,874	52,377
Total	£ 156,158	446,273	602,431

The liabilities of the loan funds exceeded the assets by £800,563, but against the loans of a municipality may be set its whole revenue and credit, so that there is no element of danger in the position as stated. Further, the municipalities have inconvertible assets in the shape of roads, streets, bridges, and other permanent improvements, which have been constructed out of loans, and which, at the end of 1907, were valued at over six millions sterling. Although these have not been included in the balance sheet, they are most necessary for developing the various localities, and add materially to their resources for rating purposes, in the added value they give to property.

SHIRES.

Since the 1st January, 1907, there have been 134 shires working under the Local Government Act of 1906. These shires are all in the Eastern and Central divisions, 96 being in the former and 38 in the latter. With the exception of 8 municipalities, the Western division is unincorporated.

The shires vary in area from 36 square miles in the case of Ku-ring-gai, immediately north of the metropolis, to 5,745 square miles in the case of Lachlan, whose headquarters are at Condobolin. The smallest shires are in the most closely settled parts of the State. A general rate, not less than 1d. in the £, and not more than 2d. in the £, may be levied by shires on the unimproved capital value of all ratable land. If, however, the general rate of 1d. is more than sufficient to meet requirements, the Governor may allow the rate to be reduced below 1d. In 1909 nine shires levied a rate less than 1d.

The rates levied in 1909, and the unimproved capital value of the land in each class are as follows:—

No. of Shires.	General Rate levied in £.	Unimproved Capital Value of Land. £	No. of Shires.	General Rate levied in £.	Unimproved Capital Value of Land. £
3	$\frac{1}{2}$ d.	3,466,829	13	$1\frac{1}{2}$ d.	6,833,784
1	$\frac{5}{8}$ d.	804,817	15	$1\frac{1}{2}$ d.	6,867,656
5	$\frac{3}{4}$ d.	5,343,738	7	2	3,505,314
88	1	55,959,423			
2	$1\frac{1}{2}$	682,885	134	...	£83,464,446

Local rates were also levied by the following shires:—Blaxland, Bland, and Gloucester, 9d., 2d., and 1d. in the £ respectively on the unimproved capital value for improvement of roads, streets, &c.; Ku-ring-gai $\frac{1}{2}$ d. in the £ for street-lighting, and Berrigan 2d. in the £ for construction of footpaths and drainage, both on the unimproved value; Bolwarra levied $\frac{1}{2}$ d. in the £ on improved capital value for street-lighting.

The unimproved capital value of the shires in 1909 was £83,464,446. It is not possible to give the improved capital value or the assessed annual value, as the shires are not compelled to make these valuations, and did not make them. The total amount of general rates levied was £371,849, and special and local rates, £2,357. These figures represent the rates actually levied in respect of the year 1909, and differ from the amount, £374,540, shown in next table. The difference is due to the inclusion in the income of 1909 of certain rates which were not levied in respect of that year, and of interest on unpaid rates amounting to £992.

In several cases the general rate was not sufficient to meet the requirements, and the State paid endowments to a large number of shires. Endowments are fixed every third year, and are determined according to the extent of the shire, the probable revenue from a rate of 1d. in the £, the necessary expenditure, the extent of roads and other public works to be constructed and maintained, and other matters. The endowment in any year is paid on the general rates actually collected in the preceding year. There are six classes into which the shires are divided for endowment purposes, the classification for the three years 1907-09 being as follows:—

47 shires in 1st class receive no endowment.
27 " 1st " " up to 10s. in the £ on General Rate.
12 " 2nd " " " 15s. " "
8 " 3rd " " " 20s. " "
9 " 4th " " " 25s. " "
8 " 5th " " " 30s. " "
23 " 6th " " not less than 40s. in the £ on General Rate.

In 4 cases the endowment was 100s. or over in the £, the highest being 133s. to Bellingen Shire. In 1909, the Government paid £261,029 as endowment to the shires. A further sum of £47,976, as grants for special purposes, was also paid, making the total subvention from the State, £309,005.

At the end of 1909 the endowments to be paid during the triennium, 1910-12, were fixed. It no case was the rate of endowment reduced; but in 64 cases it was increased. The classification for the period mentioned is as follows, and may be compared with the statement above:—

27 shires in 1st class receive no endowment.
41 " 1st " " up to 10s. in the £ on General Rate.
10 " 2nd " " " 15s. " "
9 " 3rd " " " 20s. " "
7 " 4th " " " 25s. " "
14 " 5th " " " 30s. " "
26 " 6th " " not less than 40s. in the £ on General Rate.

The principal heads of income in 1909 were as follows, and for purposes of comparison the 1908 figures are attached :—

Particulars.	1908.		1909.	
	Income.	Per cent.	Income.	Per cent.
General Fund—	£		£	
General rates	382,336	61·0	374,540	52·2
Government endowment	162,859	26·0	261,029	36·4
Public works	65,781	10·5	57,017	8·0
Health administration	2,979	0·5	3,033	0·4
Public services	7,038	1·1	6,691	0·9
Shire property	517	0·1	1,721	0·3
Miscellaneous	4,198	0·6	5,651	0·8
Special and local funds	1,160	0·2	7,462	1·0
Total revenue...	£ 626,868	100·0	717,144	100·0

The amount of general rates showed a decrease in 1909, being 52·2 per cent. of the total income, as compared with 61 per cent. in the previous year. That the revenue from general rates fell below that of the previous year is to a great extent due to the fact that, while the income in 1908 was greatly inflated by the inclusion of rates other than those levied in respect of that year, rate income in 1909 was almost entirely derived from 1909 rates.

Of the total income in 1909 Government assistance, exclusive of grants for public works, provided 36·4 per cent. as against 26 per cent. in 1908. The difference in the relative importance of this item in the income of each year is patent, as the rate collections in 1908, on which the endowments paid in 1909 were calculated, exceeded those of 1907 (the basis of calculation for the 1908 payments) by nearly £100,000. The principal items in public works were contributions to roads, bridges, &c., £7,036, Government grants for roads, &c., £38,397; and the receipts from ferries, including Government grants amounting to £9,579, were £10,846. The principal item in public services was rent, &c., from public watering places, £5,770. The income derived from special and local funds, consisting of the proceeds of special and local rates and sanitary and garbage fees, claimed 1 per cent. of the total, as compared with 2 per cent. in 1908.

The following statement shows the expenditure during 1909 in comparison with the previous year :—

Particulars.	1908.		1909.	
	Expenditure.	Per cent.	Expenditure.	Per cent.
General Fund—	£		£	
Administrative expenses	116,932	17·8	117,696	17·4
Public works	516,072	78·7	529,954	78·3
Health administration	4,604	0·7	4,573	0·7
Public services	11,702	1·7	10,290	1·5
Shire property	397	0·1	1,911	0·3
Miscellaneous	6,453	1·0	5,886	0·8
Special and local funds	58	...	6,474	1·0
Total expenditure ...	£ 656,218	100·0	676,784	100·0

The expenditure on the whole, and taking item for item, differs to such a slight extent in each year that it is apparent that the councils now measure their necessities in conjunction with their estimated revenue. With the Act in full working order the expenditure and income should be expected to increase only correlatively with the progress of the State.

The administrative expenses were £117,696, or 17·4 per cent. of the total expenditure. This may be considered high, especially in connection with the expenditure on works and services, and suggests the possibility of too many shires. Of the administrative expenses, £65,987 were on salaries, £13,450 on advertising, stationery, printing, &c., £5,386 on valuation fees, and £15,378 on president's allowance and councillors' travelling expenses. The expenditure on works accounted for 78·3 per cent. of the total, and was more than double the grants received from Government. The principal expenditure was £481,335 on roads and streets, of which £262,338 were on maintenance, repairs, and renewals, and £217,294 on construction. On other public works—bridges, culverts, punts, ferries, wharves, &c.—£26,035 were spent on maintenance and repairs, and £17,188 on construction.

The financial position of the shires on the 31st December, 1909, was strong, as there was an excess of assets of £233,592. As regards the individual shires, in only four cases were the liabilities in excess. The combined balance-sheet of the shires on 31st December, 1909, appears as follows:—

Liabilities.		Assets.	
	£		£
General Fund:—		Outstanding Rates...	24,581
Temporary Loans	7,414	Stores and Materials	8,384
Due to Trust Fund	254	Bank Balance and Cash	148,839
Sundry Creditors	10,508	Sundry Debtors	2,775
Due on Contracts	2,972	Land and Buildings	26,088
Other	83	Plant and Property	29,402
Total, General Fund	£21,231	Furniture, &c.	11,779
Special or Local Funds	3,391	Other	1,490
Total, all Funds... ..	24,622	Total, General Fund	£253,338
Excess of Assets	233,592	Special or Local Funds	4,876
Total	£258,214	Total	£258,214

Of the outstanding rates shown, £7,578 were due on account of previous years, £16,242 on account of 1909, and £761 for interest on overdue rates. It will be observed that a very large proportion of the assets—£148,839, or 59·7 per cent.—consists of cash in the bank or in hand. Probably a large part of this amount represented endowments recently received from the Government. The liabilities of the special or local funds consist for the most part of amounts due to the General Fund and Sundry Creditors; and the assets, sundry plant and buildings appropriated to these funds at their inception, outstanding fees and rates, and bank balances.

TAXATION BY LOCAL GOVERNING BODIES.

The total revenue collected by all the local governing bodies from rates and charges amounts to £1,877,854, equal to £1 3s. 1d. per head of the population residing in the taxable districts. This sum includes £941,768, rates collected by municipalities; £374,972, rates collected by shires; and £561,114, rates collected by the various Water and

Sewerage Boards referred to later. The distribution of the total amount is as follows:—

	General Rates actually collected.	Special and Loan Rates actually collected.	Total.	Per head.
	£	£	£	£
Municipalities	860,823	80,945	941,768	0 17 9
Shires	372,630	2,342	374,972	0 13 3
Metropolitan water and sewerage charges	508,074	.....	508,074	0 15 2
Hunter District and other country water charges.	53,040	.....	53,040	0 11 2
Total	£ 1,794,567	83,287	1,877,854	1 3 1

It is evident from the foregoing figures that ratepayers served by the Water and Sewerage Boards pay water and sewerage rates in addition to ordinary rates, and as the rate burden per head over the rated area of the State is calculated on the total population of all municipalities and shires, these facts should be taken into consideration when quoting the figures. It follows that part of the population pays in rates less than £1 3s. 1d., while the remainder pays considerably more.

BOARDS AND TRUSTS.

In addition to the ordinary form of municipal local government, there are various boards and trusts with local jurisdiction. The control of the water supply and sewerage of the Metropolitan and Hunter districts is placed under separate boards. The Metropolitan and the Country Towns Water Supply and Sewerage Acts, the Fire Brigades Act, the Sydney Harbour Trust Act, and the Metropolitan Traffic Act, were all passed with the object of extending the principle of local government, and boards have been established to carry out the provisions of some of these Acts.

The majority of the Boards dealing with local affairs have jurisdiction within the metropolitan area, and work mainly in connection with the local municipalities, although possessing powers independent of those bodies. In 1900 the Metropolitan Traffic Act was passed, which repealed the Public Vehicles Act, 1899, and such portions of the Sydney Corporation Act of 1879 and the Municipalities Act, 1897, as were inconsistent with the Act, and placed the complete control of street traffic and the licensing of public vehicles, drivers, and conductors, under the Inspector-General of Police.

Under the authority of the Fire Brigades Act of 1902, which repealed the 1884 Act, a Metropolitan Fire Brigade Board and forty-two country boards have been established. The cost of maintaining the Metropolitan Brigade was contributed in equal amounts by the Government, the municipalities within the proclaimed area, and the fire insurance companies holding risks within these municipal districts. In 1908 the contributions consisted of £19,100 from the insurance offices interested, and a similar amount from the Government and the city and suburban municipalities. The amount at risk on the 31st December, 1908, was £89,971,992. The country boards received subsidies from the Government, the municipalities interested, and the insurance companies, under the same conditions as are in existence with regard to the Metropolitan Board. In addition to the boards constituted under the Act, several municipalities contributed to local fire brigades.

The Fire Brigades Act, 1909, which came into operation on the 1st January, 1910, repealed the Act of 1902. The provisions of the Act

apply to the City of Sydney, to 41 suburban municipalities, to 85 country municipalities, and to such parts of six shires as may be notified in the *Government Gazette*; and they may be extended to other districts by proclamation. The administration of the Act is placed in the hands of a Board of Fire Commissioners consisting of five members. The councils of the metropolitan municipalities, the councils of the country municipalities and shires, the insurance companies, and the volunteer fire brigades each elect one member; and the president is appointed by the Governor. The Board may group together any municipalities or shires, and constitute them a fire district, and must estimate each year the amount to be expended in each district. The three parties—municipalities and shires, the insurance companies, and the Government—will each contribute one-third of this amount to the Board. Where a fire district contains more than one municipality or shire, the amount of contribution is apportioned according to the average annual value in the case of the City of Sydney, and to the assessed annual value under the Local Government Act of 1906 in any other municipality or shire. Where the Act applies to the whole of a municipality or shire, the contribution must be paid out of the City Fund of Sydney, and out of the general fund of any other municipality or of a shire. Where the Act applies to part only of a municipality or of a shire, the council must raise the required amount by a local rate in such part.

The Metropolitan Board of Water Supply and Sewerage was established in 1887, and the Hunter River District Board in 1892, and a reference to their transactions will be found in subsequent pages.

The Sydney Harbour Trust was established in the year 1900, and a description of its functions will be found in the chapter dealing with "Shipping."

Excluding the expenditure on works of national importance, the Government has expended no less than £43,616,000 on works of a purely local character, not including school buildings. The division of the State into local government districts will not necessarily be followed by an entire stoppage of expenditure on works of local interest by the central Government, but the larger portion of the works previously undertaken by the Government will be left to the local authorities, who, having to provide the revenue, will probably see that it is laid out to the best advantage. The expenditure on account of works which may be classed as local, during the last ten years, is given below.

Year ended 30th June.	Total Expenditure.	Per Capita.	Year ended 30th June.	Total Expenditure.	Per Capita.
	£	£ s. d.		£	£ s. d.
1901	1,666,000	1 4 7	1906	655,400	0 8 9
1902	1,671,400	1 4 0	1907	887,000	0 11 7
1903	1,349,100	0 19 2	1908	837,000	0 10 6
1904	768,400	0 10 9	1909	896,000	0 11 2
1905	641,300	0 8 9	1910	816,000	0 9 11

The amounts given above are approximate only, and include the expenditure from loans, consolidated revenue, and from Public Works Fund, but the endowments to municipalities and shires have not been taken into account. The large decline from 1903 to 1906 is due chiefly to the smaller borrowing policy of the Government, while the increase during the later years is caused by the operation of the Water and Drainage Act and a considerable expansion of tramway construction.

WATER SUPPLY FOR COUNTRY TOWNS.

The Country Towns Water Supply and Sewerage Act of 1880 was passed with the object of assisting municipalities to construct general systems of water supply and sewerage. To the end of June, 1910, forty-three municipal councils had availed themselves of the privileges offered as regards the former service, and works were under construction in other municipalities.

The amount required for carrying out the works is advanced by the State. The municipality, however, has the option of supervising and constructing the works, failing which the Government undertakes these duties. Under the original Act, the sum advanced was to be repaid by instalments, with interest at the rate of 4 per cent, on the unpaid balances, each annual instalment to be equal to 6 per cent. of the total cost, and the first payment to be made twelve months after the date of the transfer of the works to the municipality; but as it was found that the municipalities which had contracted liabilities in respect of water supply works were unable to comply with these conditions, the Government, in 1894, passed an amending Act which granted them more favourable terms, the rate of interest being reduced to 3½ per cent., and the yearly repayments fixed at a maximum of 100. Under the amending Act of 1905, the rate of interest is fixed at 4 per cent. per annum. This Act also provides for the issue of licenses to workmen, for the recovery of rates, and for making by-laws for the assessment of lands, and for other purposes.

The following is a statement, as at the 30th June, 1910, of the water-works completed and handed over by the Government, with the amounts expended, and the sums payable annually for the period of one hundred years:—

Municipality.	Amount of Debt (as gazetted).	Amount Payable Annually.	Municipality.	Amount of Debt (as gazetted).	Amount Payable Annually.
	£	£		£	£
Albury	41,000	1,483	Junee	42,000	1,519
Armidale	40,718	1,474	Katoomba	19,549	833
Ballina	13,605	492	Kiama	7,073	256
Balranald	6,000	217	Lismore	14,822	558
Bathurst	55,734	2,019	Lithgow	33,510	1,346
Berry	4,380	159	Moama	7,601	275
Blayney	10,771	389	Moree	10,940	396
Bourke	13,436	486	Moss Vale	13,000	470
Bowral	872	61	Mudgee	17,030	616
Casino	11,427	421	Nowra	13,259	483
Cobar	26,160	946	Nyngan	10,219	369
Condobolin	7,725	283	Orange	32,688	1,182
Coonamble	10,214	387	Parkes	22,000	796
Cootamundra	20,969	753	Pictou	17,194	630
Corowa	10,579	464	Tumut	10,238	370
Deniliquin	13,468	668	Wagga Wagga	41,588	1,513
Dubbo	15,238	551	Warren	5,819	256
Forbes	20,927	817	Wellington	12,433	451
Goulburn	55,000	1,989	Wentworth	4,000	145
Gunnedah	14,831	634	Wilcannia	8,381	303
Hay	17,075	624			
Hillgrove	4,000	170			
Jerilderie	6,313	245	Total	£ 769,041	28,509

In the case of Coonamble, a sum of £53 11s. is payable annually for water supplied by a Government artesian bore.

At Forbes, Hay, and Wilcannia, the works were constructed by the municipal authorities, and the expenditure shown in the table is not the actual cost of the works, but the Government valuation.

The combined financial statements—revenue account and balance sheet—of the municipalities which maintain waterworks are shown below. The revenue account was as follows for 1909 :—

Expenditure.		Income.	
	£		£
Management	10,907	Rates levied... ..	42,319
Working and maintenance	12,642	Meter rents	152
Repairs and renewals	4,090	Water sales	14,138
Interest payable to Government... ..	25,479	Garden charges, &c.	4,341
Other... ..	1,949		
Total... ..	£55,067	Total... ..	£60,950

Of the expenditure, management charges accounted for 19·8 per cent., working and maintenance for 23·0 per cent., repairs and renewals 7·4 per cent., interest payable to Government 46·3 per cent., and miscellaneous items, 3·5 per cent.

Rates contributed 69·4 per cent. to the income, meter rents 0·3 per cent., water sales 23·2 per cent., and garden charges, &c., 7·1 per cent.

The combined balance-sheet, on the 31st December, 1909, was as follows :—

Liabilities.		Assets.	
	£		£
Amount for which liable to Government	726,696	Waterworks—plant, buildings, &c.	738,818
Interest due to Government and unpaid	34,460	Outstanding rates... ..	16,802
Sundry creditors	2,524	Bank balances and cash in hand	14,557
		Stores and materials	2,665
		Sundry debtors	18,425
		Fixed deposits	3,047
Total	£763,680	Total	£794,314

The total amount advanced by the Government was £736,325, of which £9,629 has been repaid, and the former sum practically represents the present value of the services; but where the works were not constructed by the Government, the value is included as an asset of the loan fund. A considerable amount of rates was outstanding on the date mentioned, while the bank balances and cash in hand were also large, and, on the whole, the assets exceeded the liabilities by £30,634.

SEWERAGE WORKS.

Only nine municipal councils have taken advantage of the Act providing for the construction of sewerage works in country towns, and the capital debt and annual repayments on the 30th June, 1910, were as follows :—

Municipality.	Amount of Debt (as Gazetted).	Amount payable Annually.	Municipality.	Amount of original Debt.	Amount payable Annually.
	£	£		£	£
Ballina	327	20	Lismore	17,589	636
Blayney	429	26	Narrandera	6,078	238
Casino	3,023	129	Tamworth	1,217	56
Coraki	1,214	69			
Forbes	1,624	58			
Hay	22,368	809	Total... ..	£ 53,869	2,041

Other sewerage systems are in existence in several places, which have been constructed altogether apart from the Act, but, with few exceptions, the operations have been on a minor scale. The general system of sewerage which is now being constructed in the metropolitan area will supersede the isolated systems of some of the suburban districts, and some of the sewers already made will eventually form part of the general scheme. The Metropolitan Board has already taken over part of the sewerage constructed by the City of Sydney and by the municipalities of Ashfield, Balmain, Darlington, Glebe, North Sydney, and Redfern.

In addition to the assistance granted for the works mentioned above, the Government has advanced a sum of £122,276 for swamp drainage, bores, and other services, which is repayable by annual instalments.

Of the municipalities named in the above table, Ballina, Forbes, Tamworth, and Blayney do not levy special sewerage rates, and therefore do not keep a special account. The combined financial statements of the four other municipalities are shown below. The revenue account was as follows:—

Expenditure.		Income.	
	£		£
Management	550	Rates levied	3,155
Working and maintenance...	752	Other	472
Repairs and renewals	83		
Interest payable to Government ...	1,678		
Other	54		
Total	£3,117	Total	£3,627

Practically the only source of income is from rates. Of the expenditure, management charges took up 17·7 per cent., working and maintenance 24·1 per cent., repairs and renewals 2·7 per cent., interest payable to Government 53·8 per cent. The combined balance-sheet was as follows:—

Liabilities.		Assets.	
	£		£
Amount for which liable to Government	48,818	Works	48,443
Interest due to Government and unpaid	2,568	Outstanding rates	448
Sundry creditors	32	Bank balance and cash	2,119
		Stores and materials	95
		Sundry debtors	22
Total	£51,418	Total	£51,127

Two of the four municipalities showed an excess of liabilities amounting to £1,959, the other two showing an excess of assets of £1,668. On the whole there was an excess of liabilities amounting to £291.

GAS WORKS.

The Municipalities Act authorises the construction of works for public lighting, and gives the power to provide private consumers with gas.

In addition, acetylene gas plants have been established in eleven municipalities.

The operations of the municipalities with gas works in 1909 will be seen from the statements below of the trading fund revenue account and balance-sheet, and the loan fund balance-sheet. The first statement is

the trading fund revenue account, and particulars for 1908 are appended for purposes of comparison :—

Expenditure.			Income.		
	1908.	1909.		1908.	1909.
	£	£		£	£
Manufacture of gas ...	22,714	24,849	Private lighting ...	33,867	38,421
Distribution of gas ...	1,525	2,160	Public lighting ...	7,652	8,850
Management expenses ...	3,904	4,663	Sale residual products ...	4,142	4,492
Public lighting ...	1,700	1,838	Other ...	1,742	374
Other ...	2,457	2,789			
Total ...	£32,300	£36,298	Total ...	£47,403	£52,137

On the whole operations there was a gross profit of £15,839, only one municipality showing loss, and that less than £1. The manufacture of gas accounted for 68·5 per cent. of the expenditure as compared with 70·3 per cent. in 1908, and private lighting for 73·7 per cent of the income as against 71·4 per cent. in 1908.

The gross profit was reduced in the Net Revenue Appropriation Account, which is not shown here, by charges amounting to £11,948. Transfers to the loan fund included £6,314 for payment of interest and £5,165 for other purposes, and the net profit for 1909 was £4,143, which, added to the balance of £7,198, brought forward from 1908, leaves £11,341 to be carried forward to the next account.

The next statement is the balance-sheet of the trading account :—

Liabilities.			Assets.		
		£			£
Due to other Funds ...	...	4,119	Materials, stock, &c. ...	...	5,656
Sundry creditors ...	...	1,937	Sundry debtors, including amounts	...	
Reserves ...	...	1,369	due from other funds ...	...	11,879
			Fixed deposits ...	...	2,090
			Bank balance and cash ...	...	11,252
Total ...	...	£7,425	Total ...	...	£30,877

The total excess of assets amounted to £23,452, each municipality, with the exception of Molong, contributing thereto.

The next statement is the balance sheet of the loan fund, which really shows the value of the assets of this trading concern :—

Liabilities.			Assets.		
		£			£
Loans current ...	...	156,131	Land and buildings ...	...	24,066
Interest accrued not paid...	...	1,475	Plant, &c. ...	...	166,183
			Due from other funds ...	...	1,826
			Investments ...	...	3,064
			Other ...	...	5,463
Total ...	...	£157,606	Total ...	...	£200,602

Against a total loan indebtedness of £157,606 the municipalities had assets valued at £200,602 to show, the excess of assets being substantial. Of the assets, land and buildings made up 12 per cent., plant 82·8 per cent., investments 5·4 per cent.

ELECTRICITY WORKS.

The following municipalities have erected electric lighting plants: Sydney, Redfern, Broken Hill, Newcastle, Penrith, Tamworth, and Young. These works were erected under special Acts, as electric lighting may not be undertaken without the authority of a special Act. The Municipality of Moss Vale is supplied with electric light, both for street and house lighting.

Dealing with the electricity works in a similar manner to the gas works, the following show the results of the operations in 1909 in respect of municipalities operating under the Local Government Act, Sydney electric lighting undertaking having already been dealt with.

The following is the trading revenue account for 1908 and 1909:—

Expenditure.			Income.		
	1908.	1909.		1908.	1909.
	£	£		£	£
Generation	6,878	8,688	Private lighting ...	6,779	6,662
Distribution	1,468	1,683	Public lighting ...	9,366	8,780
Management, &c. ...	943	1,195	Power supply	504	1,897
Special charges	952	371	Rents of meters, &c. ...	98	60
Reserves (renewals and repairs)	2,402	1,008	Other	1,854	934
Public lighting	690	858			
Other	67	103			
Total	£ 13,400	13,906	Total	£ 18,601	18,333

Generation of electricity is the largest item of expenditure, accounting for 62·5 per cent. of the whole. Distribution of the current cost 12·1 per cent., and management 8·6 per cent. The gross profit of this concern to the municipalities combined was £4,427, but the transactions of the Net Revenue Appropriation Account (not included here) show a loss of £9,580 for the year and a debit balance of £6,724 to be carried forward to the next account. This unsatisfactory result was brought about by the burdening of the debit side of the account with amounts of £1,287 and £12,855 in respect of the Redfern and Newcastle funds respectively. Both items are transfers to the loan fund, the first-mentioned for "Addition to Plant," and the larger amount a transfer of assets which, in 1908, appeared in the balance-sheet of the trading fund.

The balance sheet of the trading fund is as follows:—

Liabilities.		Assets.	
	£		£
Due to other funds	1,388	Materials, stock, &c.	1,829
Sundry creditors	2,365	Sundry debtors	5,090
Reserves	1,261	Bank balance and cash	1,757
		Other	60
Total	£ 5,014	Total	£ 8,746

The last statement is the balance sheet of the loan fund.

Liabilities.		Assets.	
	£		£
Loans current	89,100	Land and buildings	6,503
Interest accrued not paid	11,494	Steam plant	16,393
Other	2,775	Dynamos... ..	4,901
		Cables, poles, &c.	33,493
		Due from other funds	11,460
		Bank balance and cash	5,554
		Other	7,701
Total	£ 103,369	Total	£ 86,005

The liabilities exceed the assets by £17,364, and the assets do not even cover the outstanding loans. It should be noted, however, that while the trading fund is able to meet interest charges, provide for redemption and sinking fund and still show a surplus, there is no reason to doubt the solvency of the undertaking.

METROPOLITAN BOARD OF WATER SUPPLY AND SEWERAGE.

In March, 1888, the Government passed an Act establishing a Board of Administration, under the title of the Metropolitan Board of Water Supply and Sewerage, to regulate the water supply and sewerage service in the county of Cumberland, including those under the control of the City Council. The management of the former service was transferred to the Board in May, 1888, and of the latter in September, 1889. The total length of water mains taken over was 355 miles, and on the 30th June, 1910, this had increased to 1,598 $\frac{3}{4}$ miles, inclusive of trunk mains. There were 70 $\frac{1}{2}$ miles of sewers in 1889, lengthened to over 793 $\frac{1}{2}$ miles in 1910.

The Board consists of seven members, three of whom are appointed by the Government, two by the City Council, and two by the suburban and country municipalities within the county of Cumberland which are supplied with water. The Board is subject to the general control of the Minister for Works—a provision considered necessary, as the Government advances the whole of the money for the construction of the works, the amount so advanced constituting part of the public debt of the State.

METROPOLITAN WATER SUPPLY.

As early as 1850 authority was given by the Legislative Council to the City Corporation for the construction of water and sewerage works, and a system of water supply from the Lachlan, Bunnerong, and Botany Swamps was adopted. By this scheme the waters of the streams draining these swamps were intercepted at a point near the shore of Botany Bay. A pumping plant was erected there, and the water raised to Crown-street reservoir, 141 feet above the level of the sea, thence into Paddington reservoir, at an elevation of 214 feet above sea-level; and to Woollahra, 282 feet above sea-level. The cost of these works was £1,719,565. This system has since been superseded by the Upper Nepean scheme, the management of which was transferred in 1888 to the Metropolitan Board of Water Supply and Sewerage.

The sources of supply under the existing system are the waters of the Nepean, Cataract, and Cordeaux Rivers, draining an area of 354 square miles, a catchment enjoying a copious and regular rainfall. The off-take

works are built at a height of 437 feet above the level of the sea, and the water flows by means of tunnel, open canal, and wrought-iron aqueducts to Prospect Reservoir, a distance of 40 miles from the farthest source of supply. The conduits above Prospect Reservoir have a maximum delivery of 150,000,000 gallons per day, and for 10 miles below this reservoir the capacity of the canals and pipes is 50,000,000 gallons. For the last 11 miles the water is conveyed by two 48-inch mains. In this work there are $63\frac{1}{2}$ miles of tunnels, canals, and pipes.

Notwithstanding the size of Prospect Reservoir, it was found in 1902—a very dry year—that the supply was not sufficient for the growing needs of the metropolis. The Government therefore decided to build the Cataract Dam, which was completed in 1907, the catchment area above the dam being about 50 square miles. The water flows from this dam down the Cataract River to a weir at Broughton's Pass, where it enters a tunnel previously existing, and is conveyed by a system of open canals to the Prospect Reservoir. The total distance from Cataract to Sydney, *via* Prospect, is $66\frac{1}{2}$ miles.

The dimensions of the Prospect and Cataract dams are shown in the following statement:—

Dam.	Height above Sea level.	Area.	Capacity.	Length.	Width at top.	Height.
	ft.	acres.	gallons.	ft.	ft.	ft.
Prospect	195	1,266 $\frac{1}{2}$	11,029,180,000*	7,300	30	85 $\frac{1}{2}$
Cataract	950	2,400	21,411,000,000	811	16 $\frac{1}{2}$	160

* When full, about half this quantity is available by gravitation.

From Prospect the water flows 5 miles by open canal to the Pipe Head Basin, thence 5 miles by 6-foot wrought-iron pipes to the Potts' Hill Balance Reservoir, which has a capacity of 100,000,000 gallons, and covers $24\frac{1}{2}$ acres. This reservoir was designed to tide over any interruption in the supply from Prospect, as well as to prevent fluctuation at the head of pressure. A by-pass is laid along the floor to enable mains to deliver water to Sydney direct.

At Potts' Hill the water passes through a series of copper-gauze screens, and is then conducted by two 48-inch mains into Sydney. At Lewisham a bifurcation takes place in one of these mains; one branch supplying the Petersham Reservoir, the other continuing to Crown-street. The Petersham Reservoir is 166 feet above high-water mark, is built of brick, and has a capacity of 2,157,000 gallons. The new 48-inch main, laid in 1893, from Potts' Hill direct to Crown-street, is worked alternately with the old. These two trunk mains are connected at Petersham as an intermediate spot. The Crown-street Reservoir is 21 miles from Prospect. It is of brick, and contains 3,250,000 gallons, the top water-level being 141 feet above high-water mark.

On account of the elevation of parts of the reticulated area, pumping is necessary for the purpose of supplying the upper zones, and no less than 4,325 $\frac{1}{2}$ million gallons were raised at the various stations during the twelve months ended June, 1910. At Crown-street is situated the main pumping station, where are erected three sets of compound high-duty pumping engines. A covered reservoir, of a capacity of 17,000,000 gallons has been constructed in the Centennial Park, at a height of 245 feet, for the purpose of ensuring a larger bulk of water within the city limits. This, it is believed, is the largest service tank in the Southern Hemisphere. At Ashfield there is a 100,000 gallon wrought-iron tank at an elevation of 223 feet above high water. This tank is supplied from

the Centennial Park reservoir by a main, and provides for the higher part of the district. Vaucluse Reservoir is connected with Waverley, and supplies a district of about 1,200 acres around Vaucluse and South Head. It has a diameter of 107 feet, a depth of 18 feet, and its capacity is 1,000,000 gallons.

North Sydney receives its supply from Potts' Hill, *via* Ryde, where there is a reservoir containing 2,116,000 gallons, from which the water is pumped into a million-gallon tank at Ryde village, 234 feet above sea-level, and, by a continuation of the same main, into a pair of tanks, of a joint capacity of 3,000,000 gallons, at Chatswood, at an elevation of 370 feet above high-water mark. Water can be lifted direct from Ryde to Wahroonga and Pymble, or may be re-pumped from Chatswood, where a small pumping station has been erected. There are two tanks of 1,000,000 and 40,000 gallons capacity at Wahroonga, $7\frac{1}{2}$ miles distant, at an elevation of 717 feet above sea-level, whence the water flows as far as Hornsby, 13 miles to the north-west of Port Jackson. A concrete reservoir of a capacity of 500,000 gallons has been constructed at Pymble. From this reservoir the districts between Pymble and Chatswood are served, thus reducing the abnormal pressure by reason of the supply being from so great a height as Wahroonga.

From the Ryde village tank the whole of Ryde, Gladesville, and Hunter's Hill are supplied; while a 9-inch main extends over the Parramatta and Iron Cove bridges to supply Balmain. An elevated tank, with a capacity of 72,800 gallons, and a reservoir with a capacity of 1,925,000 gallons have been erected for the convenience of residents at Mosman.

The districts of Campbelltown and Liverpool are supplied from the main canal by gravitation. At the latter place, a 4,000,000-gallon earthen reservoir has been constructed, and a tank with a capacity of 250,000 gallons, for the purpose of tiding over any interruption in the flow from the canal. Other districts lying nearer Sydney, *viz.*, Smithfield, Granville, Auburn, and Rookwood, are also supplied *en route*; and at Smithfield there is a 100,000-gallon concrete tank, the top water of which is 175 feet above sea-level. At Penshurst there are two tanks 270 feet above sea-level, one of which has a capacity of 1,000,000 gallons, and the other of 20,000 gallons. Works for the supply of water to the towns of Camden and Narellan, from a point on the canal near Kenny Hill, were completed in October, 1899, and the scheme has proved satisfactory. In 1893, the Board assumed control of the Richmond waterworks, in 1902 of the Manly works, and in 1903 of the Wollongong works. Manly is also connected with the metropolitan system by a main from Mosman, crossing Middle Harbour.

The following statement shows the number of houses and population in the metropolitan area supplied with water during the last ten years:—

Year ended 30th June.	Houses Supplied.	Estimated Population supplied.	Average Daily Supply.	Total Supply for Year.	Average Daily Supply.	
					Per House.	Per Head.
	No.	No.	gallons.	gallons.	gallons.	gallons.
1901	98,298	491,000	21,583,000	7,877,677,000	219	43·9
1902	101,966	509,000	21,906,000	7,995,822,000	215	43·0
1903	104,681	523,000	16,896,000	6,166,992,000	161	32·3
1904	109,191	546,000	18,690,000	6,840,549,000	171	34·2
1905	112,343	561,700	21,712,800	7,925,184,000	193	38·7
1906	116,202	581,000	22,393,300	8,173,555,000	193	38·5
1907	120,782	603,900	22,912,600	8,263,104,000	189	37·9
1908	124,083	620,400	24,500,400	8,967,135,000	197	39·5
1909	128,508	642,540	25,911,400	9,457,660,000	201	40·3
1910	133,788	668,940	26,903,155	9,819,651,727	201	40·2

The average daily consumption during 1910 was 26,903,155 gallons, equivalent to 201 gallons per house, or 40·2 gallons per head of population. The consumption was restricted in 1903 and 1904, and has not yet reached the average of the years preceding the two mentioned.

The rate levied for water is 6d. in the £ in the Metropolitan district, while 1s. is the charge for 1,000 gallons by meter. The revenue from the Water Service Branch during the year ended 30th June, 1910, exclusive of the country towns, was £284,943, and the expenditure, including interest on capital, £277,513. The net revenue showed a return of 3·63 per cent. on the capital debt of £5,286,917.

The following statement gives the transactions for each of the last ten years:—

Year ended 30th June.	Capital cost—interest-bearing.	Revenue.	Working expenditure.	Interest.	Net return after paying working expenses	Net profit after paying working expenses and interest.
	£	£	£	£	per cent.	£
1901	3,873,913	203,348	48,137	131,893	4·01	23,318
1902	3,998,531	223,201	56,226	135,306	4·18	31,669
1903	4,077,365	220,745	70,008	134,749	3·70	15,997
1904	4,289,012	222,827	57,800	144,927	3·85	20,100
1905	4,434,991	251,503	66,015	153,304	4·18	32,184
1906	4,674,341	270,263	64,487	164,216	4·40	41,560
1907	4,902,463	275,591	67,593	176,170	4·24	31,328
1908	5,009,012	233,410	75,016	183,033	4·16	25,361
1909	5,146,302	267,519	80,281	185,591	3·64	1,647
1910	5,286,917	284,943	93,027	184,486	3·63	7,430

The rates have been reduced from 8d. to 6d. in the £ during the last five years, but the returns still show a profit after paying working expenses and interest.

In addition to the city and suburbs, various country towns are supplied with water by the Metropolitan Board, and their accounts are kept distinct from those of the metropolis. The works at Richmond and Wollongong were constructed under the Country Towns Water Supply and Sewerage Act, and subsequently handed over to the Board; also the districts of Campbelltown, Camden, and Narellan, and Liverpool, receive the water by gravitation from the upper canal at Prospect. The following table shows particulars of the capital expenditure, receipts and expenditure, and population supplied in the country districts during the year ended 30th June, 1910:—

District.	Capital Cost.	Revenue.	Annual Liability.			Total.	Population supplied.
			Interest and instalment required to pay off cost of reticulation in 100 years.	Maintenance, including proportion of Head Office expenses.	Charges for water supplied from Canal.		
	£	£	£	£	£	£	No.
Campbelltown ...	8,318	766	301	166	162	629	1,110
Liverpool ...	20,772	1,000	751	348	382	1,481	2,619
Camden & Narellan	10,556	562	382	167	233	782	1,800
Richmond ...	13,797	1,349	499	670	...	1,169	1,600
Wollongong ...	50,207	2,596	1,815	833	...	2,648	2,900

THE HUNTER DISTRICT WATER SUPPLY.

The water supply works of the Lower Hunter were constructed by the Government under the provisions of the Country Towns Water Supply and Sewerage Act of 1880. In 1892, under the authority of a special

Act, a Board was established on similar lines to those of the Metropolitan Water and Sewerage Board, the number of members being the same—three being nominated by the Governor, one elected by the Municipal Council of Newcastle, two by the adjacent municipalities, and one by the municipalities of East and West Maitland and Morpeth. The following districts are within the area of the Board's jurisdiction:—

Municipalities—

Adamstown, Carrington, Greta, Hamilton, Lambton and New Lambton, East and West Maitland, Merewether, Morpeth, Newcastle City, Plattsburg, Wallsend, Waratah, Wickham.

Shires—

In Bolwarra Shire: Bolwarra, Lorn.

In Cessnock Shire: Aberdare, Abermain, Cessnock, Hebburn, Heddon Greta, Homeville, Kurri Kurri, Mayfield, Neath, Oakhampton, Rutherford, Telarah, Weston.

In Lake Macquarie Shire: Argenton, Boolaroo, Spier's Point, West Wallsend.

In Tarro Shire: Hexham, Minmi, Morpeth Road, Pelaw-Main, Stanford Merthyr.

The supply of water for the district is pumped from the Hunter River, about a mile and a half up stream from the Belmore Bridge, West Maitland. The pumping engines are situated above flood-level, on a hill about 44 chains from the river. At the pumping station there is a settling tank of 1,390,500 gallons; also six filter-beds, 10,000 superficial feet each, a clear water-tank of 589,500 gallons capacity, and a storage reservoir of 172,408,100 gallons available capacity. The filtered water is pumped from the clear-water tank into two summit reservoirs, one at East Maitland and one at Buttai. The former is connected by a 10-inch cast-iron main about $4\frac{1}{2}$ miles in length, with a capacity of 463,430 gallons, and supplies East Maitland, West Maitland, Morpeth, and neighbouring places. Buttai Reservoir is fed by two rising mains, one riveted steel pipe, $20\frac{3}{4}$ inches diameter, and a 15-inch cast-iron main, $5\frac{3}{5}$ miles in length; it has a capacity of 1,051,010 gallons, and supplies Newcastle and environs. Twelve district reservoirs which are supplied from Buttai, nine by gravitation and two by repumping, receive water for distribution.

The length of the mains when the Board was established was $105\frac{4}{5}$ miles, which has been increased to $329\frac{1}{3}$ miles as at the 30th June, 1910.

Particulars relating to the water supply of the Board are given below. The maximum water rate of 1s. in the £ is levied throughout the district.

Year ended 30th June.	Houses Supplied.	Estimated Population served.	Supply.		Average Daily Supply.	
			Daily (average).	Total.	Per House.	Per Head.
	No.	No.	gallons.	gallons.	gallons.	gallons.
1901	9,086	45,400	1,005,000	366,889,000	110	22.1
1902	9,875	49,400	1,119,000	408,508,000	113	22.6
1903	10,522	52,600	1,113,000	406,172,000	106	21.2
1904	11,100	55,500	1,093,000	399,954,000	98	19.7
1905	12,167	60,800	1,266,000	461,936,000	104	20.8
1906	12,968	64,840	1,478,500	539,655,000	114	22.8
1907	13,569	67,845	1,479,400	539,964,500	109	21.8
1908	14,457	72,285	1,654,100	603,755,000	114	22.8
1909	15,679	78,395	1,766,271	644,689,025	113	22.5
1910	16,446	82,230	1,650,677	602,497,355	100	20.1

The funds necessary for the maintenance and management of the water supply and sewerage services, as well as the sum required to pay interest on the capital debt, are obtained by rates levied on the properties situated in the districts benefited by the systems. The assessments of the Municipal Councils are generally accepted by the Boards as the values on which to strike their special rates. In cases of heavy consumption of water, a charge is made according to the quantity used; but fixed charges are imposed for the use of water in certain trades and callings, for gardens, and for animals.

Year ended 30th June.	Estimated Capital Debt.	Revenue.	Expenditure (including Interest).	Return on Estimated Capital Debt.
	£	£	£	per cent.
1901	485,835	27,405	30,948	2·77
1902	494,644	29,558	32,109	2·98
1903	500,784	31,102	32,217	3·27
1904	515,565	31,360	32,361	3·30
1905	533,270	34,486	33,714	3·64
1906	544,798	40,801	34,801	4·60
1907	398,618	41,822	38,886	6·25
1908	454,199	43,609	39,664	4·37
1909	474,485	43,395	41,184	3·90
1910	485,967	46,767	43,126	4·17

The capital debt has been adjusted as from the 30th June, 1907, in accordance with the report of the Committee appointed to investigate the accounts of the Board. The reduction was effected by writing off the difference between the revenue and expenditure of the Board, allowing for depreciation of the works to the 30th June, 1907.

METROPOLITAN SEWERAGE WORKS.

The first sewerage works at Sydney were begun in 1853; and in 1889, the date of transfer to the Board, there were 70½ miles of old city sewers in existence. The original scheme was designed on the "combined" system, by which street-surface water as well as sewage was removed. The works comprised five main outfalls discharging into the harbour at Blackwattle Bay, Darling Harbour, Sydney Cove, Fort Macquarie, and Woolloomooloo Bay. The pollution of the harbour consequent on these outlets, led to the appointment of a Commission of Inquiry, and the outcome of the labours of the Commission was the adoption of the present system.

The new system consists of three main outfalls, the northern, southern, and western; the northern discharges into the Pacific Ocean near Bondi, and the southern and the western discharge into the sewage farm at Webb's Grant, near Botany Bay. The northern system receives sewage from Waverley, Bondi, Woollahra, Double Bay, Darling Point, Rushcutter's Bay, Elizabeth Bay, and parts of Woolloomooloo.

The southern main outfall commences at a point on the north side of Cook's River, near Botany Bay, and receives the drainage from Alexandria, Waterloo, Erskineville, Newtown, and portions of the Surry Hills district. The inlet-house, into which the sewage passes, is fitted with the latest machinery for straining the sludge, and for ejecting the fluid after filtration. A portion of the area has been cultivated, and fair crops have been raised. Storm-water channels are also constructed at various points to carry off the superfluous water after heavy rainfalls.

The western outfall, which provides for the western suburbs, starts at a receiving chamber in the Rockdale end of the sewage farm, from which it runs to another chamber about a quarter of a mile to the

north-east of Muddy Creek, and thence to a penstock chamber at Marrickville on aqueducts over Wolli Creek and Cook's River. The latter chamber receives the discharges from the eastern, northern, and western branch sewers, and drains part of Marrickville, Petersham, Stanmore, Newtown, Leichhardt, Annandale, Camperdown, Summer Hill, Ashfield, Canterbury, Enfield, Burwood, Five Dock, and Concord. A branch outfall has been constructed at Coogee, which discharges into the ocean, and serves the districts of Randwick, Kensington, and Coogee. On the northern side of the city, extensive works have been completed; in the borough of North Sydney septic tanks were built in 1899 to deal with the sewage matter; and at Middle Harbour, Mosman, and Manly, ample provision has been made for the sanitation of the districts.

The subjoined statement gives the transactions relating to sewerage during the last ten years:—

Year ended 30th June.	Capital cost - interest-bearing.	Revenue.	Working expenditure.	Interest.	Net return after paying working expenses.	Net profit after paying working expenses and interest.
	£	£	£	£	per cent.	£
1901	3,119,633	125,290	44,257	107,048	2.60	- 26,015
1902	3,269,444	135,441	44,746	111,029	2.77	- 20,334
1903	3,409,176	145,666	45,609	113,116	2.93	- 13,059
1904	3,824,530	156,274	43,320	129,653	2.95	- 16,699
1905	3,774,264	213,937	54,314	130,519	4.23	+ 29,104
1906	3,828,495	220,629	55,368	134,527	4.52	+ 30,734
1907	3,922,514	217,864	62,141	140,980	3.96	+ 14,743
1908	4,053,591	216,258	64,020	148,142	3.75	+ 4,096
1909	4,225,239	214,212	68,574	151,317	3.44	- 5,679
1910	4,351,381	223,131	70,851	151,943	3.49	+ 337

There was a loss during the first four years of the table, but the four succeeding years have each shown a profit. The rate was reduced in 1908, and although the returns show a deficit during the year 1909 there was a profit in 1910.

The sewerage rate from the city of Sydney and the eastern suburbs up to 1903 was 7d., the northern and the western suburbs being rated at 1s., but in 1904 a uniform rate of 11d. was imposed. In 1907 it was reduced to 10d., and in 1908 to 9½d.

The length of sewers in the metropolis, and the population and houses served during the last ten years are shown below:—

Year ended 30th June.	Houses connected.	Estimated Population served.	Length of Sewers.	Length of Storm-water Dr ins.	Length of Ventilating Sh.fts.	Length of Sewers Ventilated.
	No.	No.	miles.	miles.	feet.	miles.
1901	75,416	370,000	515.62	25.91	194,667	450.00
1902	82,644	413,000	550.40	27.37	236,855	552.00
1903	78,620	400,000	588.38	37.27	239,767	595.00
1904	82,215	410,000	610.73	38.67	252,977	614.00
1905	85,938	430,000	630.42	44.71	256,535	621.70
1906	88,881	444,000	656.84	44.82	264,255	636.00
1907	91,940	456,670	684.38	46.15	281,885	654.00
1908	94,735	470,000	724.37	46.94	286,000	684.00
1909	98,009	490,000	760.16	47.30	297,910	714.00
1910	102,896	514,480	793.55	47.82	344,820	756.00

The number of houses connected in 1902 includes reconstructions, which were classed as new connections in that and previous years, but this practice has since been abolished, and new connections only included,

NEWCASTLE AND SUBURBS SEWERAGE WORKS.

The sewerage scheme for Newcastle and suburbs, now in course of construction by the Public Works Department, will deal with the sewerage partly by gravitation and partly by pumping. The outfall is situated at Merewether Gulf, some distance south from Newcastle. Two gravitation sewers which branch from the main, one at Merewether and the other in the city of Newcastle, have been completed and transferred to the control of the Hunter District Water and Sewerage Board, also the reticulation sewers for the areas capable of being drained by gravitation. The length of sewers under the control of the Board on the 30th June, 1910, was 29½ miles, and 647 houses were connected. The rate is 1s. in the £ on the annual rental value.

PARKS AND RECREATION RESERVES.

It has always been the policy of the State to provide the residents of incorporated towns with parks and reserves for public recreation, and the city of Sydney contains within its boundaries an extent of parks, squares, and public gardens affording favourable comparison with most of the great cities of the world. The total area covered is 709 acres, or 21 per cent. of the whole of the city proper. This area includes only 30 acres of the Centennial Park, 745 acres in extent, formerly reserved for the water supply, but now used for recreation by the inhabitants of Sydney. This magnificent recreation ground has been cleared, planted, and laid out with walks and drives, so that it is a favourite resort of the citizens. The suburban municipalities are also well served, as they contain, including the Centennial Park, about 4,129 acres of public parks and reserves, or about 4 per cent. of their aggregate area, dedicated to, and in some cases purchased for, the people by the Government.

In addition to these parks and reserves, there was dedicated to the people, in December, 1879, a large area of land, situated about 16 miles south of the metropolis, and accessible by railway. This estate, now known as the National Park, with the additions subsequently made in 1880 and 1883, contains a total area of 33,719 acres, surrounding the picturesque bay of Port Hacking, and extending in a southerly direction towards the mountainous district of Illawarra. It is covered with magnificent virgin forests; the scenery is charming, and its beauties attract thousands of visitors.

Another large tract of land, designated Kuring-gai Chase, was dedicated in December, 1894, for public use. The area of the Chase is 35,300 acres, and contains portions of the parishes of Broken Bay, Cowan, Gordon, and South Colah. This park lies about 10 miles north of Sydney, and is accessible by railway at various points, or by water *via* the Hawkesbury River, several of whose creeks, notably Cowan Creek, intersect it.

In 1905 an area of 248 acres was proclaimed as a recreation ground at Kurnell, on the southern headland of Botany Bay, a spot famous as the landing-place of Captain Cook; and the Parramatta Park (252 acres) although outside the metropolis, may be mentioned on account of its historic interest.

In country districts, reserves have been proclaimed as temporary commons, and considerable areas have been dedicated from time to time as permanent commons attached to inland townships, which are otherwise well provided with parks and reserves within their boundaries.

APPENDIX.

SINCE the chapters of the Year Book went to press the following additional information has become available:—

CONSTITUTION AND PARLIAMENTS.

STATE ELECTIONS, 1910.

The twenty-first Parliament was dissolved on the 14th September, 1910, after a duration of 2 years 11 months 8 days. The election of the twenty-second Parliament took place on the 14th October, 1910; of the ninety members returned, three were unopposed. The particulars of the voting are shown below:—

	Males.	Females.	Total.
Electors on Roll	458,626	409,069	867,695
Electors per member	5,096	4,545	9,641
In contested Electorates:—			
Electors on Roll	444,242	400,139	844,381
Votes recorded	322,199	262,154	584,353
Per cent. of electors	72·53	65·52	69·20
Informal votes	...	...	10,393

In three electorates where second ballots were taken the votes recorded at the first ballots have been excluded.

The election resulted in a change of Government. The McGowen Ministry, now in office, is composed of the following members:—

Premier and Colonial Treasurer	... ..	Hon. J. S. T. MCGOWEN.
Attorney-General and Minister of Justice	... ..	Hon. W. A. HOLMAN.
Colonial Secretary and Minister for Agriculture	... ..	Hon. D. MACDONELL.
Secretary for Lands	... ..	Hon. N. R. W. NIELSEN.
Secretary for Public Works	... ..	Hon. A. GRIFFITH.
Minister of Public Instruction, and for Labour and Industry	... ..	Hon. G. S. BEEBY.
Secretary for Mines	... ..	Hon. A. EDDEN.
Ministers without portfolio	... ..	{ Hon. A. C. CARMICHAEL. Hon. J. L. TREFLE.
Vice-President of the Executive Council and Representative of the Government in the Legislative Council	... ..	Hon. F. FLOWERS.

COST OF PARLIAMENTARY GOVERNMENT, 1909-10.

The following statement shows the cost of Parliamentary Government in New South Wales during the year ended 30th June, 1910:—

Head of Expenditure.	Amount.
Governor—	£
Governor's salary	5,000
Private Secretary's salary	376
Aide-de-Camp	324
Repairs and maintenance of Governor's Residences	972
Total	£ 6,672
Executive Council—	£
Salaries of Officers	520
Ministry—	
Salaries of Ministers	11,040
Other expenses	856
Total	£ 11,896
Parliament—	
The Legislative Council—	
Railway passes... ..	6,675
Other expenses... ..	125
The Legislative Assembly—	
Allowances to Members... ..	24,122
Railway passes... ..	10,099
Other expenses... ..	1,622
Miscellaneous—	
Salaries of Officers and Staff... ..	25,928
Printing... ..	7,001
Hansard... ..	4,683
Library	666
Refreshment Rooms	400
Water, power, light, and heat	673
Postage and stationery	723
Fees and expenses of Parliamentary Standing Committee on Public Works... ..	5,926
Miscellaneous	680
Total	£ 89,323
Electoral Offices—	
Salaries of Officers and Staff... ..	773
Other expenses	15,366
Total	£ 16,139
Cost of elections (1910)	£ 818
Royal Commissions and Select Committees—	
Miscellaneous	£ 1,477
GRAND TOTAL	£ 126,845

SEAT OF FEDERAL GOVERNMENT—ORDINANCE.

The agreement between the State of New South Wales and the Commonwealth for the surrender and acceptance of territory in the Canberra district for the seat of Federal Government has been ratified, and an ordinance issued for the Provisional Government of the Territory. All laws hitherto in force in the Territory (except those imposing duties on estates of deceased persons) will remain in force, and continue to be administered by the State authorities. All revenue, except Public Instruction fees, will belong to the Commonwealth. The authority of State magistrates, gaolers, and police will continue, and all offenders will be tried in the Courts of the State. Licenses to sell intoxicating liquors will not be granted, and existing licenses may be renewed for the same premises only.

POPULATION.

	Males.	Females.	Total.
Population on 31st December, 1909	883,357	762,087	1,645,444
Increase by excess of Births over Deaths	14,094	15,248	29,342
„ „ Arrivals over Departures	12,964	2,565	15,529
Population on 31st December, 1910	910,415	779,900	1,690,315
Mean Population	895,847	770,793	1,666,640

MOVEMENT OF POPULATION, 1910.

Country.	Arrivals from—	Departures to—
Other Australian States	221,837	224,506
United Kingdom	16,537	6,926
New Zealand	22,410	15,249
Other Countries	14,432	13,006
Total	275,216	259,687

VITAL STATISTICS.

BIRTHS, DEATHS, AND MARRIAGES, 1910.

	Males.	Females.	Total.	Rate per 1,000 of Population.
Births	23,443	22,090	45,533	27.32
Deaths	9,349	6,842	16,191	9.71
Marriages ... ..	.....	.....	14,294	8.58

CAUSES OF DEATH, 1910:—

Causes of Death.	Number 1910.	Causes of Death.	Number 1910.
Organic Diseases of Heart	1,537	Diabetes	165
Endocarditis	54	Meningitis	165
Diarrhoea and Enteritis (under 2)	1,144	Suicide	161
„ „ (over 2)	287	Congenital Malformations	132
Cancer	1,179	Intestinal Obstruction	130
Tuberculosis—Lungs	1,024	Influenza	130
Old Age	921	Appendicitis	111
Accident	918	Cirrhosis of Liver	106
Pneumonia	865	Gastritis	106
Premature Birth	740	Embolism, Thrombosis	101
Bright's Disease	678	Measles	99
Hæmorrhage, &c., of Brain	643	Acute Rheumatism	82
Bronchitis	477	Epilepsy	63
Congenital Debility	378	Syphilis	56
Typhoid Fever	294	Dysentery	47
Puerperal Condition	261	Others	2,556
Diphtheria and Croup	233		
Whooping-cough	174	All Causes	16,191
Convulsions (under 5)	174		

SHIPPING.

VESSELS ENTERED AND CLEARED DURING 1910 :—

Vessel—No	Entered.		Cleared.	

Tonnage—Steam	2,925	3,017	5,905,414	5,832,646
Sailing	391,196	411,684		
Total Tonnage	6,296,610	6,244,330		

COMMERCE.

Complete information showing the Interstate transfers during the year 1910 is not available, as these particulars have not been recorded by the Customs Department since 13th September last. The following figures show the transfers for the period 1st January to 13th September, 1910 :—

State.	Imports.	Exports.		
		Australian Produce.	Other Produce.	Total.
	£	£	£	£
Victoria	4,333,226	2,689,383	505,993	3,195,376
Queensland	4,893,456	2,509,176	1,020,742	3,529,918
South Australia	1,864,918	2,401,849	180,315	2,582,164
Western Australia	729,037	549,652	91,404	641,056
Tasmania	802,791	195,798	162,803	358,601
Total	12,623,428	8,345,858	1,961,257	10,307,115

OVERSEA TRADE, 1910.

Country.	Imports.	Exports.			Total.
		New South Wales Produce.	Other Australian Produce.	Other Produce.	
	£	£	£	£	£
United Kingdom... ..	14,318,633	11,834,876	1,346,125	137,098	13,318,099
British Possessions—					
Canada	356,593	64,270	10,922	1,674	76,866
Fiji	161,894	177,006	24,085	209,835	410,926
Hong Kong	95,450	123,844	71,801	218,397	414,042
India and Ceylon	1,135,359	147,003	24,440	15,685	187,128
New Zealand	1,180,011	605,122	82,575	631,661	1,319,358
South Africa	20,313	223,065	4,987	67,198	295,250
Straits Settlements	132,245	225,768	19,168	1,577	246,513
Others	151,783	56,333	9,474	65,497	131,304
	17,552,281	13,457,287	1,593,577	1,348,622	16,399,486
Foreign Countries—					
Belgium	555,298	2,863,876	100,549	5,762	2,970,187
China	38,720	14,436	44,126	5,630	64,192
France	166,986	4,125,279	104,391	2,467	4,232,137
Germany	1,288,574	4,530,879	389,977	13,618	4,934,474
Italy	129,246	201,748	32,120	551	234,419
Japan	342,030	442,045	78,491	4,062	524,598
Java	324,130	117,346	1,377	4,619	123,342
New Caledonia	39,242	61,718	5,930	47,810	115,458
Philippine Islands	37,492	213,413	9,511	3,210	226,134
South Sea Islands	164,530	74,969	2,797	136,885	214,651
United States	2,150,953	562,896	283,335	19,095	865,326
Others	382,511	1,011,196	14,082	105,769	1,131,047
	5,619,712	14,219,801	1,066,686	349,478	15,635,965
Total	23,171,993	27,677,083	2,660,263	1,698,100	32,035,451

ROADS AND BRIDGES.

NATIONAL WORKS.

The "National Works" at 31st December, 1910, were as follows:—

- 1 Road from Jindabyne to Kosciusko, approximate length 38 miles.
- 265 Bridges.
- 12 Ferries.
- 54 Wharves.
- 99 Jetties (including 8 mooring dolphins).

MINING INDUSTRY.

The following statement shows the value of the mineral products during 1910, and the increase or decrease, as compared with the production during the previous year:—

Mineral.	Value of Output, 1910.	Increase.	Decrease.
	£	£	£
Gold (native ores only)	802,211	.....	67,335
Coal	3,009,657	391,061	.....
Silver and silver-lead	1,861,479	207,864	.....
Copper, matte, and ore	486,257	61,520	.....
Tin and ore	228,156	17,127	.....
Kerosene shale	33,896	10,279	.....
Zinc (spelter and concentrates)	1,289,634	248,354	.....
Coke	189,069	51,875	.....
Noble opal	66,200	4,400	.....
Lead (pig, &c.)	248,561	62,488	.....
Limestone flux	16,946	3,095	.....
Antimony and ore	1,450	739	.....
Bismuth	2,004	380	.....
Diamonds	2,881	1,078	.....
Alunite	2,840	.....	5,951
Ironstone flux	1,321	.....	2,150
Pig iron	161,948	61,591	.....
Wolfram	16,258	5,009	.....
Scheelite	15,747	1,129	.....
Molybdenite	5,667	2,418	.....
Platinum	1,418	.....	302
Iron oxide	714	.....	4,234
Cobalt	55	55	.....
Sundry minerals	10,801	3,626	.....
Total value	8,455,170	1,133,010	81,050
Net increase... ..	.....	£1,051,960	

Lime and Portland cement to the value of £281,299 are not included in the foregoing figures.

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