## III.—WHOLESALE PRICES.

1. General.—The data upon which this investigation as to Wholesale Prices is based were obtained mainly from reports of Melbourne market prices published in the ordinary press and in special trade reviews. In any case of doubt as to the reliability of the figures, the records thus obtained were verified by reference to well-known and important business firms dealing in the articles in question. Every care was taken to ensure that the prices quoted for each article refer to a uniform quality, and, in cases where more than one source of information was utilised for obtaining prices of single commodities, special precautions were taken to ensure substantial continuity of quality or grade. In nearly every case monthly prices were obtained and arithmetic averages for the several years were computed. In regard, however, to a few commodities, such as coal, tea, cotton, wool and silk, monthly prices were not available; yearly averages, based in each case upon expert opinion, were secured.

It was at first intended to obtain records, on the lines indicated, for a uniform list of commodities for the capital town of each State. Owing, however, to the difficulty experienced in obtaining regularly the prices of anything like a uniform representative list of commodities from the papers and journals published in some of these towns, this idea has for the present been abandoned. The amount of work involved in taking out the prices since 1871 for Melbourne alone and in performing the necessary arithmetical calculations was very considerable, and the inclusion of similar information for the other capital towns (if it were ultimately found that satisfactory data could have been secured)

would have unduly delayed the publication of this Report.

For future months particulars of wholesale prices, with corresponding index-numbers, on uniform lines with the information given herein, will be furnished in the periodical publications to be issued by the Labour and Industrial Branch of this Bureau.

- 2. Commodities Included, Sources of Information and Mass Units.—From the list given below it may be seen that the commodities included in this investigation embrace a large number of the staple articles of Australian consumption and production. The 80 commodities have been distributed into eight groups, and index-numbers have been computed for each group separately, and for all groups together, thus facilitating any analysis of the course of prices or examination as to the cause of fluctuations. It should be observed that, for reasons already indicated (see pp. 16, 18), articles of clothing, boots and shoes and furniture and house furnishing have been excluded.
- (i.) Commodities included and Sources of Information.—The first three columns of the tabular statement given on pp. 44-6 shew the commodities comprised in each group, the particular brand, grade, or quality (if any) to which the prices refer, and the sources of information from which the prices of each commodity are derived. It may be seen that the commodities included are generally in the nature of raw materials, i.e., materials in which the labour cost is relatively low. Any examination into the relative fluctuations of price in raw materials, as compared with manufactured articles, must for the present be omitted.
- (ii.) Units of Measurement and Mass-Units.—In the fourth column of the statement given on pages 44-6, the unit of measurement of each

commodity is set out; while in the following column the relative quantities of each commodity (in thousands and in the corresponding units of measurement); are shewn. The last column shews the mass-units adopted in the computation of the index numbers, that is to say it shews the relative extent to which each commodity is used. The meaning of the term "mass-unit," and the application of the mass-unit in the computation of index-numbers by the aggregate expenditure method, have already been explained in Sections I. and II. of this Report. For the rest, it may be said that the method here followed for the computation of the wholesale price index-numbers is the same as that adopted in regard to Retail prices.

Melbourne` Wholesale Prices, Commodities included, Sources of Information, Quantities Consumed, and "Mass-Units."

	· Quai	Territos Companitor, tena mess	- Quito.		
Commodity.	· Brand.	Sources of Information.	Unit.	Quantitles Consumed. (000 omitted.)	Mass Umt.
, ,	GROUP	I.—METALS AND COAL (12 C	OMMODITI	ŒS).	
Iron— Pig Rod & Bar Angle & T	Mixed Nos. Stafford	Trade Journals*	ton	64 34 34	6± 3± 3± 3
Plate Hoop Galvanized Fencing Wire	26 gauge No. 8	94 99 99 99 99 99 99 99 .	52 51 21	31 6 52 60	3 5
Fencing Wire Zinc, Sheet Lead, Sheet ,, Pipes Copper Sheet		Journal of Commerce 1871 and	" 16.	8 7 6 20,000	2,000
Coal	Newcastle on Whari	1872, quoted in Bay Melbourne Papers, 1873 to 1900 Federated Steamship Owners, 1901 to 1912	ton	6,004	600
				Total	2,6301
G	ROUP II.—	JUTE, LEATHER, WOOL, ETC.	(9 Сомм	odities).	
Branbags Cornsacks Woolpacks Leather Kip " Calf " Basils Cotton Silk Wool	Raw "	Trade Journals*  """  """  London Prices  ""  (Australasian Wool)  III.—Grains, etc. (13 Col	doz. each lb. doz. lb.	1,090 2,500 2,000 10,710 6,946 257 243,200 2,635 122,000 Total	110 250 200 1,070 700 25 24,000 250 12,200
	OROUP 1	III.—GRAINS, EIC. (13 CO)	IMODITIES	i i	
Wheat Flour Bran Pollard Oats Oatmeal Barley Maize Hay Straw Peas Potatoes	Feed Colonial Malting Feed Best Manger Victorian	Trade Journals* and Melbourne Papers  Trade Journals * and Melbourne Papers, 1891. to date Melbourne Papers  Trade Journals* Melbourne Papers	bushel ton bushel '' ton bushel '' ton bushel ton	4,853 477 14,350 14,350 12,365 16,500 1,000 9,624 2,695 554 402 Total	500 48 1,400 1,400 1,200 100 100 270 25 55 40 6,189}

<sup>\*</sup> When "Trade Journals" is mentioned it signifies the Journal of Commerce, 1861, 1866, 1871, 1872, and 1883 to 1912, and the Australasian Trade Review 1871 to 1892, and occasionally to 1892.

# Melbourne Wholesale Prices, Commodities included, Sources of Information, Quantities Consumed, and "Mass-Units."—continued.

. Commodity.	Brand.	Sources of Information.	Unit.	Quantities   Consumed.   Mass   (000   Unit.   omitted.)

## GROUP IV .- DAIRY PRODUCE (7 COMMODITIES).

Ham Bacon Cheese Butter Lard Eggs Honey	Best Fresh In Bladders Ordinary	Melbourne	Papers	lb. "" doz. lb.	8,000 32,500 15,000 95,000 2,000 18,000 5,847	800 3,200 1,500 9,500 200 1,800 600
				!	Total	17,600

## GROUP V .-- GROCERIES (21 COMMODITIES).

Currants Raisins	Sultanas		f lb.	14,000 14,000	1,400 1,400
Herrings	1lb. tins	•	doz. i lb.	500	50
~ .	-		i tans		
Salmon Sardines	1[alves		doz. ñalves	500	50 100
Sarumes Coffee	Plantation		lb.	1,000 2,100	200
Cocoa	Taylor's		11	1,000	100
Sugar	No. 1A or		- 11 "	1,000	100
And r.	its entival-		li ton	220	22
	ent in				1
	former years		-		l
Macuroni	<b>i</b>		lb.	2,000	200
Sago	Patna		tön	$7,750 \\ 22$	800
Rice Balt	Liverpool fine	Trade Journals*	ا	70	27
Salt	Rock	Trade sournais	]	iŏ	1 i
Mustard	1871-83		doz. 1 lb		
	D.S F. In		tins	64	1 6
	1884 1 lb		il 1		1
	1911 tins		- 11		1
	Coleman's				1
Starch	Coleman's ?		- [ ] Ib.	1,000	100
PULCIL	White 3		i! '~' I	1,000	1
Blue	Keen's		ll lb.	500	50
Matches	Wooden		gross	860	90
	Safety		11 1		1
Candles	Gouda		]b.	16,000	1,600
Fobacco	Two Seas in Pocket Pieces		[} 1b.	13,000	1,300
Геа	POCKEL PIECES	London Prices	1 1ь.	30.000	3,000
Kerosene		Trade Journals*	gallon	17,500	1,700
			J	•	<u> </u>
				Total	12,178

# GROUP, VI.-MEAT (5 COMMODITIES).

Beef Mutton Yeal Lamb Pork	Average quality.	}	† Metropolitan Meat Market Reports	lb. lb. each lb.	3,875 332,000 20,000 2,047 37,000	390 33,000 2,000 200 3,700
	1				Total	39,290

<sup>\*</sup> See footnote \* on opposite page. † Gippsland Mercury, 1890-1892, Melbourne Papers, 1893-1912

Melbourne Wholesale Prices, Commodities included, Sources of Information, Quantities Consumed, and "Mass-Units."—continued.

Commodity.	Brand.	Sources of Information.	Unit.	Quantitles Consumed, (000 omitted.)	Mass Unit.
	GROUP V	II.—Building Materials	(9 Сомморі	TIES).	
Timber :—  Cement White Lead	Flooring 6 x 1½ 6 x 5½ 6 x 5½ 6 x 5½ 6 x 5½ Weather- boards Oregon Shelving Portland	} Trade Journals*	1,000 ft. lin. "" 1,000 ft. snp eask ton	300 300 300 300 2,000 200 100 312 8	30 30 30 30 200 20 10 30 28
_	GROUP	VIII.—CHEMICALS (4 Co	MMODITIES	)	
Cream of Tartar Carbonate of Soda Saltpetre Sulphur	In Kegs Refined	Trade Journals*	lb. ton	4,030 3	400 1 1 400±
Saltpetre	Refined		11	2 <sup>‡</sup> Total	-

<sup>\*</sup> See footnote \* on page 44.

3. Relative Importance of Groups — The relative importance of any group is, of course, gauged by computing the relative expenditure thereon, that is by taking the sum of the products of the prices of the commodities in each group and their corresponding "mass-units," and comparing this sum with the total expenditure on any other group or on all groups. The relative expenditures thus obtained, and the percentage of the expenditure on each group, on the total expenditure, are shewn in the subjoined table. The relative, as well as the total expenditures, depend, of course, upon the prices, the mass-units being constant. In the computation of the figures shewn in the following table, the relative importance of the groups is shewn for both 1871 and for 1911. It will be seen, of course, that they are not quite identical, since the variations of the prices for each group are not identical.

Wholesale Prices, 1871 and 1911, Relative Importance of Groups.

Particulars.	Group I. Metals and Coal.	Group II. Jute, Leather, &c.	Group III. Agricultural Produce.	Group IV. Dairy Produce.	Groveries. &c.	Group VI.	Group VII. Building Materials.	Group VIII. Chemicals.	All Groups.
Relative Expendi- ture	23,515 21,447	44,460 85,378	61,912 50,111	12,589 14,574	40,098 25,350	19,148*: 16,640	9,190 8,802	724 514	211,634 172,816
Percentage on Total Expenditure 1911	11.1	21.0 20.5	29.3 29.0	6.0 8.4	19.0 14.7	9.0 9.6	4.3 5.1	0.3	100. 100.

<sup>\* 1884</sup> prices.

From this table it may be seen that Group III. (Agricultural produce), is by far the most important, the expenditure thereon amounting to no less than 29.0 per cent. of the total expenditure. The next group in order of importance is No. II., the expenditure thereon being 20.5 per cent. of the total, followed in the order named by Groups V. (14.7 per cent.), I. (12.4 per cent.), VI. (9.6 per cent.), IV. (8.4 per cent.), VII. (5.1 per cent.), and VIII. (0.3 per cent.).

The expenditure on food stuffs in 1911 (Groups III., IV., V., and VI.), amounted in all to 61.7 per cent. on the total expenditure, and it will be seen hereinafter that the variations in the prices of the commodities included in these groups have often, and especially in times of drought and consequent high prices, a predominating influence on the level of the index-numbers for all groups.

- 4. Index-Nubmers and Graphs.—As already stated index-numbers have been computed for each group of commodities, as well as for all groups together. The index-numbers for the several groups and for all groups together are shewn in the table on page 48. In regard to Group VI. it should be observed that reliable and uniform records as to prices of meat could not be obtained further back than 1890 (except for the years 1884 and 1885). Index-numbers were accordingly worked out for the full period since 1871 for the seven groups, excluding meat, and also for the period since 1890, for the eight groups, including meat. The figures shewn in the last column of the subjoined table for years prior to 1890 (except for 1884 and 1885) have accordingly been adjusted (on the basis of the results for succeeding years) so as to include meat.
- (i.) Table of Index-Numbers.—The index-numbers have in each case been computed with the prices in the year 1911 as base; that is to say, they show the amount which would have had to be expended in each of the years specified in order to purchase what would have cost £1000 in 1911, distributed in purchasing the relative quantities (indicated by the mass-units) of the several commodities included in each group and in all groups respectively. Thus in the last column it may be seen that the cost of the relative quantities of the various commodities was 1229 in 1871, and 974 in 1901, as compared with 1000 in 1911 and 1174 in 1912. In other words, prices were lower in 1911 than in either 1871 or 1912, and the purchasing power of money in 1911 was accordingly greater. Again, prices were higher in 1911 than in 1901, and the purchasing power of money in the former year was accordingly less.

It should be observed that the figures for 1912 are based on the prices for the first nine months only, and that in some cases the results 'are incomplete.

Melbourne Wholesale Prices, Index Numbers, 1861, 1866, and 1871 to 1912, Computed to Year 1911 as Base.

YEAR.	I. Metals and Coal.	II. Jute, Leather, &c.	III. Agricultural Produce, &c.	IV. Dairy Produce.	V Groceries	VI. Meat.	VII Building Materials.	VIII. Chemicals.	All com- modities together.
1861 1866 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1886 1886 1887 1898 1890 1891 1892 1898 1898 1898 1898 1898 1898	1,438 1,228 1,096 1,456 1,816 1,816 1,408 1,408 1,408 1,208 1,266 1,317 1,231 1,208 1,216 1,061 1,402 895 886 752 720 808 813 1,061	1,381 1,902 1,257 1,394 1,240 1,240 1,146 1,146 1,149 1,094 1,060 1,101 1,021 1,021 1,021 1,021 1,021 835 886 911 847 886 911 847 886 886 911 847 749 768 887 721 688 749 749 749 749 749 749 749 749 749 749	1,583 1,392 1,246 1,446 1,446 1,446 1,347 1,269 954 1,012 1,444 1,152 1,124 1,122 1,122 1,122 1,122 1,122 1,122 1,122 1,122 1,123 1,024 1,123 1,024 1,126 1,024 1,126 1,024 1,126 1,024 1,126 1,024 1,126 1,024 1,126 1,024 1,126 1,024 1,126 1,026	1,008 1,749 864 1,019 1,140 1,345 1,415 1,303 1,112 1,140 9035 1,347 1,115 1,286 1,286 1,291 1,210 1,082 1,092 1,068 2,286 1,291 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,295 1,068 1,190 1,215 1,059 875 980 9972 1,029 1,100 1,008 1,1100 1,008	1,963 1,886 1,586 1,698 1,586 1,476 1,436 1,476 1,436 1,371 1,412 1,414 1,326 1,128 1,129 1,128 1,129 1,150 1,033 1,057 1,016 1,003 1,048 945 936 916 948 948 978 999 1,085	1,151 1,042 1,007 888 901 1,091 1,091 1,091 1,091 1,443 1,427 1,443 1,427 1,209 1,108 1,008 1,008 1,008 1,008 1,008 1,008 1,008	1,070 931 1,044 1,097 1,446 1,138 1,005 1,054 1,047 886 852 940 910 910 876 880 730 730 730 730 730 780 780 780 780 780 789 781 881 789 781 881 881 881 881 881 895 911 896 968 968 968 968 968	2,030 1,741 1,409 1,532 1,560 1,532 1,560 1,532 1,567 1,411 1,444 1,687 1,498 1,471 1,481 1,472 1,481 1,471 1,472 1,472 1,471 1,472 1,471	1,538 1,752 1,325 1,325 1,335 1,316 1,316 1,210 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,121 1,055 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074 1,074

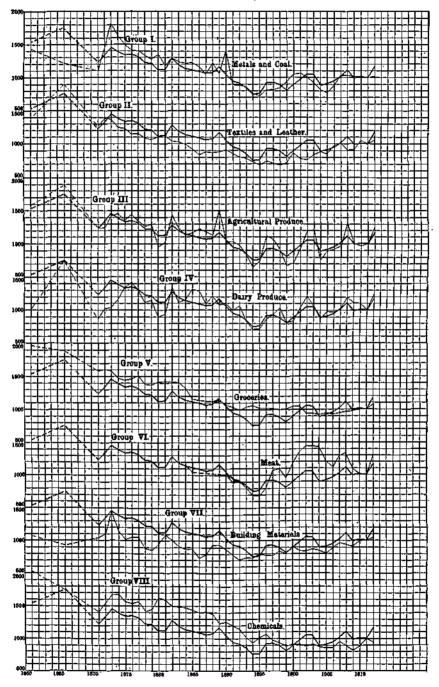
<sup>\*</sup> First 9 months, January to September (inclusive).
† Omitting Cotton, Silk and Wool. 
‡ Omitting Tea.

 $\frac{1174}{894}$  × 1000 = 1313, an increase on 1900 of 31.3 per cent.

(iii.) Graphs.—The index-numbers are shewn for each group and for all groups toegther in the following graphs. The heavy line in each graph represents the index-numbers for the weighted average of

<sup>(</sup>ii.) Reversibility of Index-Numbers.—It has already been pointed out that these index-numbers are reversible; that is to say if it is desired to take any year, other than 1911, as base, the necessary index-numbers may readily be computed, by dividing each index-number by the index-number in the base year and multiplying the result by 1000. Thus, referring to the last column, if it be desired to compare prices in 1912 with those in 1900 as base (= 1000 instead of 894), the index number for the former year (1912) is

## MELBOURNE WHOLESALE PRICE INDEX-NUMBERS, 1861 TO 1912.\*



Numbers for 1912 are based on average prices in the first nine months only.

all groups, and is shewn so that comparison may be made between the price levels for all commodities and those for the commodities comprised in each group separately. The index-numbers for the individual groups are represented by the light lines. The broken lines at the commencement of each graph shew the index-numbers for the years 1861 and 1866, the continuous records commencing with the year 1871.

- (iv.) Tables of Prices.—The average annual prices of each commodity included in this investigation are shewn in Appendix VI. hereof.
- General Results of Investigation.—(i.) From 1871 to 1880.— Referring to the index-numbers given on page 48, and to the graphs thereof on page 49, it will be noticed that, in regard to the index-numbers for all commodities (disregarding the figures given for the years 1861 and 1866), the first noticeable feature is the rise from 1871 to 1873, followed by a rapid fall until 1880, with the exception of a small rise in 1876. From 1869 to 1873 there was a world-wide boom in trade, which in England and other countries carried prices to a level which had not been reached for fifty years. This boom constituted a period of great inflation of credit and business, as well as of prices, and has variously been attributed to excessive speculation, to extensive and injudicious construction of railroads in the United States of America, Central Europe, and Russia, to the opening of the Suez Canal, and to the Franco-German war. On reference to the graphs of the individual groups it will be seen that this rise was most marked in the case of metals and coal (Group I.), and it was these commodities that the boom chiefly affected, for the stimulus imparted by the developments of the 'fifties and 'sixties chiefly took the form of a demand for railways, ships and The index-numbers for all other groups, except, perhaps, that for groceries (Group V.), shew a distinct upward movement at this period. It may be seen that in regard to agricultural and dairy products Groups III. and IV.), this rise did not reach its maximum until a few years later, viz., in 1874 and 1876 respectively. This was largely owing to local conditions and especially to the severe drought of 1876-7.

It will be seen hereinafter (see Section VI, hereof) that the decline in prices which set in in 1873 was world-wide. This fall has been ascribed to the same factors as are generally recognised as the causes of similar downward movements. When trade is good a state of affairs is created in which a downward movement of prices is said to be sooner or later inevitable. A great stimulus is given to production, capital is employed in establishing new factories or in extending works or plant, workers are attracted to certain favoured industries by increased wages; then at a certain stage the demand is found to be less than the supply, the prices of the manufactured articles fall, and in time the raw materials and labour employed are at a discount. It is stated, moreover, that the fall is often precipitated by the inability of speculative holders of stocks to hold on in face of falling markets. At each new stage of the decline new sales become necessary till there is apparently no limit to the fall, just as before there seemed to be no limit to the rise. By sympathy almost all markets tend to be affected, the low prices in one market attracting capital to it, and so weakening other markets, while

speculators who are hit in one branch of trade seek to cover their losses by sales of some commodity or stock which has not depreciated. This is often stated to be the ordinary explanation of a general fall in prices.\* The consideration of what is commonly alleged to be another important factor, viz., the gold supply, is dealt with in a later part of this Report (see Section IX.).

- (ii.) From 1881 to 1890.—The chief features of the graph during this period are the rises in 1882 and 1889. These rises appear to be largely due to local conditions, though, as will appear later, they occur to a smaller extent in the price-indexes of other countries. They are especially noticeable in the prices of agricultural and dairy produce and building materials (see graphs of Groups III., IV., and VII.), and were to a large extent brought about by the droughts in the seasons 1880-1 and 1888-9 (see graph of Rainfall on p. 58). In the opinion of some observers the causes which brought about these temporary rises in 1882 and 1889 may eventually have helped to accentuate the decline which did not terminate until 1894. It is commonly recognised that unfavourable weather and bad seasons have a most potent influence in conducing to depression in trade and a consequent fall in prices. One bad season among several good ones may not, of course, have much visible influence, but a succession of them is recognised as a powerful cause of michief. The usual explanation has been that a bad season, leading directly to a high price of certain necessaries of life, causes immediate distress among the masses of the consumers, whose purchases of manufactured commodities fall off, with the result that the persons employed in the trades so affected are also impoverished, and so by a quick round all trades tend to be adversely affected. In Australia, a country whose wealth is largely dependent upon primary industries, the effect of bad seasons is well known. In the year 1910 the value of the Commonwealth production from the agricultural, pastoral, dairying, etc., industries was £114,132,000, or no less than 60.8 per cent. on the estimated total value of production (£187,734,000). In earlier years. before the development of manufacturing industries, this percentage was probably greater. It may readily be understood, therefore, that in the case of even one bad season, resulting in a falling off of say 20 per cent, in the production of these primary industries, the cumulative effect on the spending powers of the community, and hence on prices, may be considerable.
- (iii.) From 1891 to 1901.—This period is one of low prices, the decline which set in in 1889 continuing until the year 1894, when the index-number reached the low value of 749. Since 1873, that is in twenty-one years, the index-number fell from 1451 to 749, a decline of nearly 50 per cent. As will be seen later, this decline was world-wide, and the statement has been ventured by some economists that it was, in extent and character, without precedent in the modern world's history. On reference to the group diagrams on page 49, it may be seen that the decline in Australia was common to all groups. The fact, however, that the prices of some commodities fell much more than those of other

<sup>\*</sup> See "Economic Inquirles and Studies," by Sir Robert Giffen, K.C.B., Vol. I., p. 134. (London, 1904)

commodities had the effect of accentuating the economic disturbance, which manifested itself by numerous signs of industrial, commercial and agricultural depression.

In 1896 the index-number rose to 922, but fell again in 1899 to 809. The next year marks the commencement of another rise. The increase in prices in 1896 is again attributable to local conditions, and occurs mainly in commodities comprised in Groups III., IV. and VI., viz., agricultural and dairy products and meat. Reference to the graph of Rainfall on page 58 again shews that this period was one of severe drought.

- (iv.) From 1901 to 1910.—The rise which began in 1898-9 continued for three years, and again the increase is most noticeable in regard to the groups comprising foodstuffs, viz., Groups III., IV. and VI. This rise followed on the severe drought of 1901-2, and after being maintained for one year was succeeded by a sudden fall from 1049 in 1903 to 890 in 1904. In that year a rise again set in, and was maintained for several years, culminating in 1908, when there was again a drought. In 1909 the price-index fell to a level which was substantially maintained for two years.
- (v.) From 1911 to Present Time.—During the year 1912 there was a sharp rise in the index-number, the figure 1174 being computed on the average prices for nine months only of the year. The increase is again most marked in the groups comprising foodstuffs, and was no doubt largely due to the drought in the earlier part of the year.
- (vi.) Average Level of Index-Numbers in Quinquennial Periods.— The net results of this investigation may be more clearly indicated by a consideration of the average level of the index-numbers over periods of several years. The somewhat violent fluctuations seen in the graphs indicate that the significance of comparisons between any particular years is not apparent. In order to illustrate the method which may be employed in making comparisons between the average price level over different periods, the average level of the price-indexes during each quinquennial period and during the years 1911 and 1912 (first nine months only) have been computed for each group and for all groups together. Each average thus obtained has then been taken as the base (= 1000), and the corresponding index-number for 1911-12 has been computed. These index-numbers for 1911-12 are shewn in the following table; each number represents (for its respective group or for all groups together, as the case may be) the index-number for 1911-12 compared with the average expenditure for each quinquennium as base: that is to say, it represents the amount which would have had to be expended according to the average prices in 1911 and 1912 in order to purchase such relative quantities (indicated by the mass-units) of each commodity as would have cost 1000 units at the prices prevailing in the corresponding base period.

Index-Numbers	for	1911-12,	with	Average	Expenditure	įπ	each	successive
	Q	uinquenni	al Pe	riod, as b	ase $(= 1,000)$	).		`

Base Period (Prices =1,000)	I. Metals and Coal.	II. Jute, Leather, &c.	III Agricul- tural Produce	IV. Dairy Produce.	V. Groceries'	VI. Meat.	VII. Building Materials	VIII. Chemi- cals.	AH Groups together.
1871-5	672	792	841	1,037	678		889	621	806
1876-80	746	926	895	957	731	~	1,067	641	877
1881-85	821	1,912	946	957	775	-	1,071	651	932
1886-90	854	1,172	934	974	928	_	1,193	730	999
1891-95	1,225	1,340	1,345	1,299	1,015	1,438	1,362	917	1,288
1896-1900	1,134	1,383	1,265	1,249	1,028	1,122	1,244	1,019	1,222
1901-05	1,098	1,224	1,137	1,089	1,089	833	1,214	1,091	1,115
1906-10	1,013	1,059	1,094	1,039	1,082	981	1,084	1,097	1,070

The above table shews, for example, in regard to the index-numbers for the whole of the commodities included (see last column), that, taking the average price level in 1871-5 as 1000, prices had fallen in 1911-12 to 806, and similarly, taking the average level for the period 1876-80 as 1000, prices had fallen in 1911-12 to 877. Compared with the average for each quinquennial period up to, and including, 1886-90, prices in 1911-12 had fallen, but in comparison with the average for succeeding periods it is seen that prices in 1911-12 had risen. Thus, the price level in the latter period (1911-12) compared with the average for 1891-5 was 1288, and with that for the next period 1222, with the next 1115, and with the five years immediately preceding the year 1911 was 1070. In other words, wholesale prices in Melbourne in 1911-12 were 28.8 per cent. higher than the average for 1891-5, 22.2 per cent. higher than in 1896-1900, 11.5 per cent, higher than 1901-5, and 7.0 per cent, higher than 1906-10. In a subsequent report it is intended to shew the yearly progression of the quinquennial average.

6. Metals and Coal (Group I.).—This group comprises twelve commodities, the prices of which, except perhaps in the case of coal, depend almost entirely upon the prices in the world's markets, though in some cases they vary to a certain extent according to the amount of import duty imposed. The average annual prices of each commodity comprised are specified in Appendix VI.

In order to shew the relative fluctuations in price for certain of the more important commodities comprised in this group, the prices given in the tables in Appendix VI. have, in the case of pig-iron and coal, been converted into price-ratios, taking the price in 1911 as the base. That is to say, taking the price of each commodity as 1000 in 1911, the relative prices for other years have been computed; the results therefore shew the variations in price compared with 1911. These price-ratios are shewn in the following table:—

## Melbourne Wholesale Prices, 1871 to 1912.

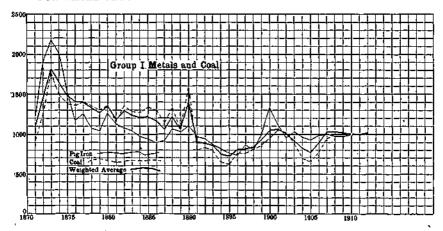
PRICE-RATIOS FOR PIG IRON AND COAL, AND PRICE-INDEX FOR WHOLE GROUP II.

Year.	Pig Iron.	Coal.	Index- Num- ber for whole Group	Year.	Pig Iron.	Coal.	Index- Num- ber for whole Group.	Year.	Pig Iron.	Coal	Index- Num- ber for whole Group.
1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883	1,221 1,910 2,180 2,016 1,530 1,170 1,268 1,072 1,038 1,260 1,126 1,076 1,038 971	922 1,269 1,766 1,493 1,380 1,357 1,402 1,352 1,361 1,154 1,278 1,268	1,096 1,456 1,816 1,635 1,487 1,406 1,329 1,260 1,347 1,178 1,297 1,231	1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898	935 891 1,063 1,030 1,109 964 939 868 818 756 731 867 805	1,393 1,300 1,144 1,381 1,067 1,578 800 880 800 648 613 759 759 804	1,216 1,164 1,053 1,216 1,061 1,402 895 856 752 720 808 813 842	1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911	1,005 24,336 1,133 955 1,036 961 924 903 1,001 978 988 1,000 1,023	867 950 1,055 1,052 885 699 644 767 955 1,000 1,000 1,000	933 1,042 1,061 1,067 923 821 772 882 1,037 1,033 1,014 1,004 1,015

<sup>\*</sup> For first 9 months only.

The fluctuations in the above figures may be more readily seen by reference to the following graphs, in which the thin continuous line represents the price-ratios for pig-iron, the broken line those for coal, while the heavy continuous line shows the price-index for the whole group.

MELBOURNE WHOLESALE PRICES 1871 TO 1912. —METALS AND COAL (GROUP I.).
GRAPH SHEWING PRICE-KATIOS FOR PIG IRON AND COAL AND PRICE-INDEX
FOR WHOLE GROUP.



Average price for first nine months only of year 1912.

It may be seen that prices rose rapidly from 1871 to 1873, reaching a maximum in the latter year. This increase was due to the boom in these years, which was especially marked in the iron and coal trades. Broadly speaking, prices fell until 1895, but there were temporary increases, which were especially marked in 1883 and 1890. After 1895, when prices reached their minimum value for the period under review,

there was a marked recovery, in 1900 a high level being reached. There was then a decline until 1905, followed by a sharp rise in 1906 and 1907. Since the latter year prices have remained fairly constant. During the nine months to which the figures for 1912 relate, prices of metal were on the upward grade, more especially during the latter part of that period.

The average level of the prices of commodities included in this group in 1911-12 compared with each preceding quinquennium may be

seen by reference to the table on page 53 hereinbefore.

The figures in the first column of that table shew that average prices in this group were lower in 1911-12 than in any of the quinquennial periods from 1871 to 1890, and higher than from 1891 to 1910. For example, it may be seen that, compared with the average level in 1871-5, the prices-index for 1911-12 was 672, that is to say prices were 328 (1000-672) less in 1911-12. Similarly prices in 1911-12 were 1.3 per cent. higher than in 1906-10, 9.8 per cent. higher than in 1901-5, and so on.

7. Textiles and Leather (Group II.). —This group includes nine commodities (see p. 44), of which three are manufactured jute goods, three are leather and three are raw materials (cotton, silk and wool).

The relative fluctuations in the price-ratios of some of the more important commodities (leather, cotton and wool) in this group are shewn in the following table in relation to the price-index for the whole group. It should be observed that these ratios are computed with the price in 1911 as the base (1000), and also that the figures for 1912 are incomplete.

#### Melbourne Wholesale Prices, 1871 to 1912.

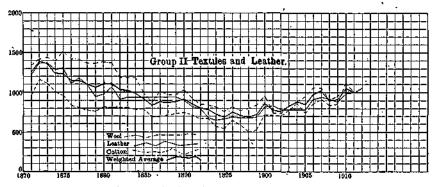
PRICE-RATIOS FOR LEATHER, COTTON, AND WOOL, AND PRICE-INDEX FOR WHOLE GROUP II.

Year	Leather (Kip.)	Cotton	Wool.	Index- No. for whole Group	Year	Leather (Kip.)	Cotton.	Wool.	Index- No. for whole Group.
1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886	1,229 1,360 1,369 1,281 1,304 1,108 1,176 1,091 941 1,065 942 941 941 941	975 1,169 1,105 1,000 960 839 806 774 758 814 806 806 790 790 790 693	1,341 1,412 1,435 1,394 1,517 1,423 1,412 1,365 1,382 1,365 1,182 1,182 1,176 988 876	1,257 1,384 1,362 1,240 1,240 1,146 1,149 1,060 1,101 1,115 1,032 1,021 997 921 835	1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906	791 640 640 680 686 679 686 817 784 784 784 918	661 669 572 645 581 581 524 718 701 771 863 734 855	847 835 812 759 817 770 800 835 735 729 835 888 943 1,047	800 783 721 684 749 706 683 717 861 774 756 834 885 850 978 1,107
1887 1888	941 941	693 710	1,012 970	883 870	1908 1909	918 885	839 855	906 953	901 907
1889 1890	941 900	726 742	970 1,029	886 911	1910 <b>1911</b>	987 1,000	1,121 <b>1,000</b>	1,023 1,000	1,052 1,000
1891	820	710	918	847	1912*	1,000	**	Ť	1,05

<sup>\*</sup> Figures for first nine months. † Not available, † Exclusive of Cotton, Silk and Wool.

These price-ratios and the price-index for the whole group are shewn in the following graphs, in which the heavy and light continuous lines represent respectively the price-index for the whole group and the price-ratios for leather; the upper broken line represents wool and the lower cotton.

MELBOURNE WHOLESALE PRICES, 1871 TO 1912 \*—TEXTILES AND LEATHER (GROUP II.). GRAPH SHEWING PRICE-RATIOS FOR LEATHER, COTTON AND WOOL, AND PRICE-INDEX FOR WHOLE GROUP.



\* Average for first nine months only of year 1912.

Generally speaking, there is considerable similarity between these graphs. It may be seen that there was a general fall in prices until about the year 1898, and that since that year there has been a fairly marked rise. The price of cotton reached a maximum in 1872 and a minimum in 1898, while its price had so far recovered in later years that in 1910 it nearly equalled its previous maximum; the price-index for the whole group reached its maximum and minimum in the same years respectively. As regards wool, it may be seen that the average price of Australasian wool in London was highest (1s. 4½d. per lb) in 1875 and lowest (9¾d. per lb.) in 1902, and that since the latter date there has been a considerable rise in price.

Figures shewing comparisons of the average price-level in 1911-12, compared separately with each preceding quinquennium, may be found on page 53 hereinbefore. It may be seen that the average level in 1911-12 was lower than in each of the two quinquennial periods—1871-5 and 1876-80—but was higher than in each succeeding quinquennium. It may be observed that there has been a considerable increase in prices since 1896, the level for 1911-12 being 38.3 per cent. higher than in 1896-1900, 22.4 per cent. higher than in 1901-5, and 5.9 per cent. higher than in 1906-10.

8. Agricultural Produce (Group III.)—This group is the most important of any, the expenditure thereon by the community amounting to about 29 per cent. of the total expenditure on all groups included in this investigation. It includes thirteen commodities, and of these the price-ratios (with the average price in 1911 as base) have been computed for wheat, flour, oats, hay and potatoes. These price-ratios are shewn in the following table, in which figures have also been included

giving the mean annual rainfall in Victoria (in inches), the production of wheat in Victoria (in 1000 bushels), the retail price-ratios for bread in Melbourne, and the price-index for the whole group.

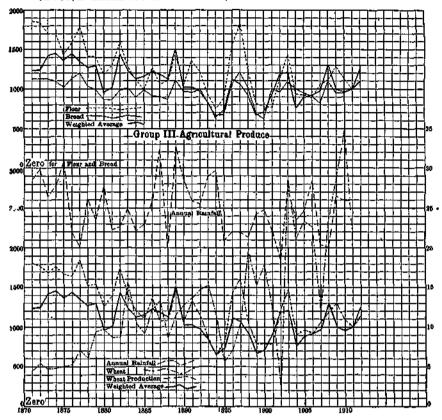
Melbourne Wholesale Prices, 1871 to 1912.—Price-Ratios for Various Commodities and Price-Index for Whole Group III.

	Vic-	WH	EAT.	Broke	BREAD.	ر مرسد		POTA-	Price Index
YEAR.	torian Mean Ram fall. Inches.	Victorian Pro- duction. 000 bushels.	Price Ratio.	FLOUR. Price Ratio.	RETAIL. Price Ratio	OATS. Price Ratio.	Price Ratio.	Price Ratio.	for all Com- modities in Group III
1871 1872 1873 1874 1875 1876 1877 1878 1878 1879 1880	28 56 29.86 20 40 27.81 30.86 21.89 20.11 26.14 23 46 27 01	4,501 5,391 4,752 4,850 4,979 5,280 7,018 6,061 9,399 9,727	1,806 1,775 1,686 1,762 1,667 1,648 1,850 1,515 1,543 1,241	1,861 1,845 1,702 1,690 1,438 1,586 1,791 1,415 1,409 1,176	1,121 1,121 1,121 1,091 1,020 1,131 1,030 1,030 990 860	1,460 1,298 1,805 2,285 1,671 1,276 1,572 2,000 1,373	1,046 1,067 1,350 1,215 1,202 1,456 1,164 1,038 1,207 890	617 871 746 1,186 1,218 1,183 1,028 1,186 1,331 568	1,236 1,246 1,422 1,456 1,361 1,446 1,347 1,269 1,298
1881 1882 1883 1884 1884 1886 1886 1887 1888 1889 1890	22.25 22.68 24.90 22.00 22.95 25.84 32.32 10.70 82.77 28.51	8,714 8,751 15,570 10,433 9,170 12,100 13,329 8,648 11,496 12,751	1,397 1,745 1,309 1,203 1,108 1,305 1,075 1,077 1,472 1,068	t,300 1,593 1,276 1,109 993 1,269 1,055 1,101 1,437 1,053	860 990 1,010 899 990 919 909 869 1,111	1,267 1,636 1,311 1,285 1,195 1,193 1,099 1,223 1,524 1,112	844 1,305 1,223 1,055 1,206 1,211 1,218 1,143 -1,578 966	736 1,142 785 935 776 886 762 868 1,310	1,012 1,444 1,237 1,124 1,156 1,222 1,184 1,123 1,505 1,022
1891 1892 1893 1804 1895 1896 1897 1898 1898 1899	25.90 25.46 28.99 29.69 20.88 22.03 21.30 24.22 24.79	13,679 14,815 15,255 11,446 5,669 7,091 10,580 19,581 15,238 17,847	1,331 1,139 859 649 818 1,436 1,612 1,043 787 793	1,362 1,214 939 742 886 1,553 1,802 1,227 812 778	959 990 836 656 677 1,060 1,212 1,020 687 626	1,022 910 772 695 708 1,263 919 844 703 945	928 920 742 574 698 941 852 700 575	726 661 1,089 592 364 982 718 1,988 514 631	1,024 971 834 644 1,116 1,063 920 670 703
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912*	22.05 18.55 27.44 23.49 24.53 28.49 20.40 20.02 26.52 25.96† 26.00	12,127 2,569 28,526 21,092 23,418 22,618 12,100 23,346 28,780 34,813 20,892	787 1,219 1,473 902 964 917 1,065 1,183 1,300 1,095 1,151	762 1,144 1,444 942 926 890 1,052 1,117 1,290 1,127 1,000 1,093	1,000 956 1,090 1,000 1,000 1,956 909 818 1,090 956 956 1,000	956 1,326 1,123 773 903 1,132 1,228 1,228 1,000 1,000 1,372	966 1,128 1,135 726 780 797 949 1,392 865 885 1,000 1,192	1,144 1,254 674 5712 1,639 1,517 628 1,077 940 1,221 1,000 1,953	928 1,192 1,209 754 894 916 973 1,312 1,000 969 1,000

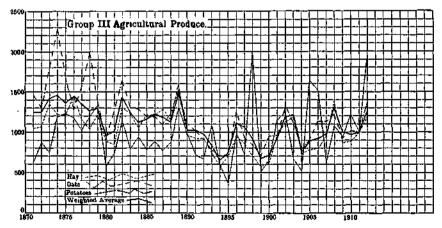
First nine months 1912. † Approximate.

(i.) Wheat, Flour and Bread.—These figures may be more readily understood by reference to the graphs given on the next page. The former of these graphs shews, firstly, the price-ratios for flour and bread, together with the price-index for the whole group; secondly, the mean annual rainfall in Victoria; and thirdly, the price-ratio for wheat and the annual production of wheat in Victoria, which are again shewn in relation to the price-index for the whole group.

A glance at these graphs will suffice to shew, firstly, that the priceratios for wheat and flour follow each other closely, and secondly that the prices of wheat and flour have a predominant effect on the priceindex of the whole group. The general contour of the price-index for MELBOURNE WHOLESALE PRICES, 1871 TO 1912 \*—AGRICULTURAL PRODUCE (GROUP III.). PRICE-RATIOS FOR FLOUR, BREAD AND WHEAT, PRICE-INDEX FOR WHOLE GROUP, AVERAGE ANNUAL RAINFALL, AND PRODUCTION OF WHEAT.



AGRICULTURAL PRODUCE (GROUP III.), PRICE-RATIOS FOR HAY, OATS. AND POTATOES, AND PRICE-INDEX FOR WHOLE GROUP.



Average for first pine months only of year 1912.

the group is the same as that of the price-ratios of wheat and flour, and further the "peaks" and "depressions" in all these three graphs occur at the same years.

The graph for the retail price-ratio for bread also follows, as might be expected, the graph for flour fairly closely, though the relative variations in price are not so great in the case of former as the latter commodity.

The graphs of the annual rainfall and the production of wheat in Victoria serve to shew the relation between the two. Thus in the drought years 1888, 1895, 1902 and 1907-8 the sudden falls in both graphs may be observed. It should be noticed, however, that the graphs do not always follow each other closely, chiefly for the reasons that the rainfall figures shew the mean annual rainfall for the whole State (and not merely for the principal wheat growing districts), and that the production largely depends, of course, on the seasons during which the rain came, as well as on the area under crop.

In reviewing the graphs of prices and production of wheat it should be borne in mind that the statistics for production relate to the twelve months ending in March of the succeeding year to that indicated in the graph, thus the production in 1910 includes that for the period between the 1st April, 1910, and the 31st March, 1911. The prices, on the other hand, are based on the monthly averages for each calendar year. Thus the effect of bad harvests may not be reflected in the graph of price-ratios until the succeeding year; for example, the bad harvests in 1885, 1888, 1895 and 1902 correspond to the high prices in 1886, 1889, 1896 and 1903 respectively. Again, the good harvests in 1883, 1891-3, 1898-1900 and 1903 are reflected in the falling prices in 1884, 1891-4, 1899-1901 and 1904 respectively. Broadly speaking, similar relations exist between the graphs of rainfall, wheat production and the price-ratios for flour, and in a smaller degree those for bread.

(ii.) Oats, Hay, and Potatoes.—The second graph on page 58 shews the price-ratios for oats, hay and potatoes in relation to the price-index for the whole group. In each case the price in 1911 is taken as the base (= 1000), as before. The price of oats was at its maximum (5/51/8d. per bushel) in 1874, and at its minimum (1/77sd. per bushel) in 1894. It may be seen that the graph for hay follows the general index-number for the whole group more closely than either of the other graphs. index-number for the whole group reached its maximum (1505) in 1889. and its minimum (644) in 1894. The maximum price for hay (£7 15s. 10d. per ton) was in 1889, and the minimum (£2 16s. 8d. per ton) in 1894, while the maximum for potatoes (£8 0s. 4d. per ton) was in 1898, and the minimum (£1 9s. 4½d. per ton) in 1895. The effects of the drought on the prices of these commodities is in some cases marked, especially, for example, in 1888, 1902 and 1908. It may be seen that for the first nine months of the year 1912 prices were rising rapidly.

The figures shewing comparisons between the average price levels in 1911-12 and each preceding quinquennial may be found on page 53 hereinbefore. It may there be seen that the average level for this group in 1911-12 was lower than in any quinquennial period up to 1890, but was higher than in any succeeding period.

9. Dairy Produce (Group IV.)—Although this group is not so important as the preceding one, the expenditure thereon amounting to only 8 per cent. of the total expenditure on all groups, it includes in all seven commodities of which some arc of every day use, e.g., butter, bacon

and eggs.

The general graph for the group (see p. 49) shews that although the fluctuations are not so marked as in the preceding group (agricultural produce), there is a considerable similarity between the two graphs, thus the peaks in 1876, 1882, 1902, 1908 and 1912, and the depressions in 1880 and 1894 may be seen in both graphs. This similarity is due mainly to the fact that the prices in both groups are largely affected by the seasonal and meteorological conditions. It will be seen that the price-index for the whole group rose steadily from 1871 to 1876, when it reached its maximum (1415), then it fell until 1880 (except for a slight rise in recovery in 1879). The lowest point (708) was touched in 1894, and since then there have been four peaks in 1898, 1902, 1908 and 1912 (corresponding with the drought years), and three depressions in 1899, 1904 and 1911.

The price-index in 1912 (first nine months) is the highest since 1886.

Melbourne Wholesale Prices, 1871-1912.

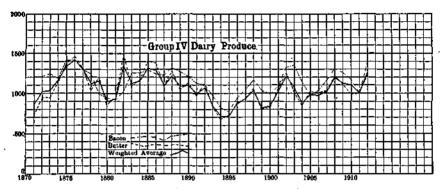
PRICE BATIOS FOR BACON AND BUTTER, AND PRICE-INDEX FOR WHOLE GROUP IV.

YEAR.	Bacon.	Butter.	Group 1V	YEAR.	Bacon.	Butter.	Group IV.
1871	1,205	721	864	1891	1,121	973	995
1872	1,205	945	1,019	1892	1,103	1,115	1.066
1873	1,243	945	1,032	1893	963	831	842
1874	1.186	1.136	1,160	1894	822	672	708
1875	1,411	1.366	1,345	1895	766	721	712
1876	1,420	1,464	1,415	1896	944	863	875
1877	1,299	1,311	1,303	1897	1,047	940	937
1878	1,243	1.027	1,112	1898	1.168	1,054	1,034
1879	990	1.197	1,146	1899	1,028	803	814
1880	944	852	900	1900	990	820	838
1881	916	940	935	1901	1.084	1,060	1,029
1882	1.019	1.486	1,347	1902	1,327	1,258	1,215
1883	1,252	1,087	1,114	1903	1,355	1,005	1,059
1884	1,252	1,161	1,156	1904	1,140	841	876
1885	1,290	1.404	1.316	1905	972	1.016	980
1886	1,234	1.382	1.286	8001	1,028	1,005	972
1887	1,224	1.082	1,091	1907	1,159	1,027	1,020
1888	1,318	1,279	1,210	1908	1,308	1,213	1,198
1889	1.271	1.038	1.082	1909	1,261	1,109	1,119
1890	1,205	1,126	1,099	1910	1,168	989	1,100
			l	1911	1,000	1,000	1,000
		1		1912*	1;392	1,235	1,248

<sup>\*</sup> For first nine months only.

The price ratios of bacon follow fairly closely the weighted average for the whole group, with the exception of the period 1871 to 1874, when the price of bacon remained fairly stationary, whereas the group index-number rose. The highest price for bacon was in 1876 (9½d. per lb.) and the lowest in 1895 (5½d. per lb.). The average price in the first nine months of 1912 was higher than for any year since 1876. The above figures are shewn in the following graphs:—

MELBOURNE WHOLESALE PRICES, 1871 to 1912\*.—DAIRY PRODUCE (GROUP IV.), GRAPH SHEWING PRICE-RATIOS FOR BACON AND BUTTER AND PRICE-INDEX FOR THE WHOLE GROUP.



\* Average for first nine months only of year 1912.

The graph for butter also closely follows that for the whole group, and the comments made on the general graph apply equally well to the price-ratios for butter. The highest price for butter (1s. 43/4d. per lb.) was in 1876, and the lowest (73/4d. per lb.) in 1894. The average price of butter was slightly higher in 1902 than the average for the first nine months of 1912, but with this exception the price in 1912 was higher than at any period since 1888.

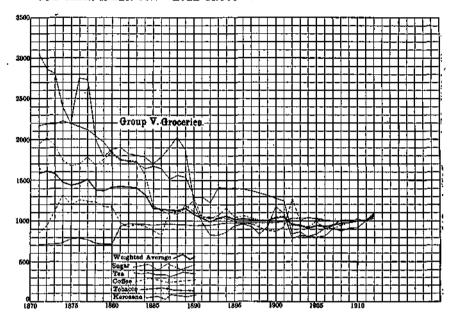
The prices of butter and of cheese fluctuate with the seasons, dry years shewing increases and good seasons decreases, but in addition to this, in the earlier years of this investigation they were affected by outside conditions, as during the whole period from 1871 to 1912, Victoria has changed from being a large importer of butter and cheese to becoming a large exporter.

From the price-indexes given on page 53 for 1911-12 compared with each quinquennial period as base it may be seen that prices in 1911-12 were higher than in 1871-5, but were lower than in either of the next three quinquennial periods. In the following period prices rose rapidly, and prices in 1911-12 were 29.9 per cent. higher than in 1891-5. They were also higher in these two years than in any of the three preceding periods.

10. Groceries (Group V.)—This group includes 21 articles, practically the whole of which were imported during the earlier part of the period under review. In more recent years, however, several of these commodities have been manufactured in the Commonwealth. The prices are all based on quotations with the duty paid, and it should be noted that the chief alterations in the Customs Tariff were made in the years 1880, 1894, 1901 and 1907.

The general graph of this group (see p. 62) shews that there was a fairly steady fall in price-ratios from 1871 until 1892, the maximum level (1608) occurring in 1872. From 1893 to 1901 prices remained fairly constant. They fell from 1902 until 1904, reaching their minimum (916) in the latter year. They rose gradually from 1904 until 1911 and more rapidly in 1912.

MELBOURNE WHOLESALE PRICES, 1871 to 1912.—GROCERIES (GROUP V.) GRAPH SHEWING PRICE RATIOS FOR SUGAR, TEA, COFFEE, TOBACCO AND KEROSENE AND PRICE-INDEX FOR WHOLE GROUP V.



The price of sugar fell from its highest price in 1872 (£44 2s. 4d. per ton) until 1875; it then rose for two years, but fell again in 1878. A rise in price then took place until 1880, after which prices fell persistently until 1885, with a sharp drop in 1884 and 1885. From 1886 until 1907 the fall was gradual and fairly consistent, the minimum being reached in 1907 (£19 15s. 4d. per ton). Since that year priceshave risen.

The price of tea rose slightly from 1871 to 1874, when it was at its maximum price (1s. 8d. per lb.). Until 1892 it fell steadily, but this fall was checked by a slight rise in 1893 and 1894; it again fell slowly until 1901, and there was a considerable decline in 1902. The minimum price was reached in 1904 and 1905 (71/4d. per lb.), since which year the price has been steadily rising.

The price of coffee rose from 1871 to 1874, when the maximum price (1s. 578d. per lb.) was reached. It then fell away until 1886, when the minimum (1118d. per lb.) was touched. From 1887 to 1890 a gradual rise took place, followed by a fall until 1900. From 1903 to 1911 prices were steady, but in 1912 there was again a sharp rise.

The price of tobacco in bond has remained practically level during the period under review, the only fluctuation of importance occurring in 1881, when the duty was raised 1s. per lb. In 1912 there was a rise

of about 5 per cent.

There was a heavy fall in the price of kerosene from its maximum in 1871 (2s. 6d. per gallon) to its minimum (7¾d. per gallon) in 1902. Reference to the table on page 63 will shew that there were fairly sharp rises in 1906 and 1908. In 1912 the price increased by 2.6 per cent. on the previous year.

The price-indexes for this group with each quinquennial period as base (see page 53) shew that prices in 1911-12 were lower than in any period up to 1890, but were higher than in any of the succeeding periods.

Melbourne Wholesale Prices, 1871 to 1912.

PRICE RATIOS FOR SUGAR, TEA, COFFEE, TOBACCO, AND KEROSENE, AND PRICEINDEX FOR WHOLE GROUP v.

- YEAR.	Sugar.	Tea.	Coffee.	Tobacco.	Kerosene.	Group V.
1871	1,947	2,166	842	709	3,057	1,586
1872	1 6 6 6 6	2,194	940	715	2,866	1,608
1873		2,187	1,101	722	2,809	1,581
1874	1 -1	2,222	1,319	723	2,395	1,476
1875		2,194	1,194	785	2,178	1,435
1876	1 1000	2,159	1.254	790	2,752	1,462
1877	1 -1	2,111	1,241	778	2,738	1,502
1878	1 4	2,035	1,231	726	2,000	1,378
1879	1	1,965	1.176	716	1,783	1,371
1880	1 1 1 1	1,833	1,167	714	1,879	1,412
1881	1,737	1,756	977	930	1,902	1,421
1882		1,729	930	963	1,822	1,414
1883	1 - '	1,722	958	959	1.803	1,408
1884		1,639	935	959	1,783	1,326
1885	1	1.673	884	950	1,700	1,158
1886		1,639	824	959	1.783	1,139
1887	1 -1	1,507	1,106	959	1.896	1,128
1888	1 1 0-0	1,555	1,111	955	2,025	1,222
1889	1 1 1 1 1 1 1	1,535	1,148	955	1,873	1,152
1890	1 1 1 1	1,292	1,264	944	1,210	1,074
1891	1,048	1,298	. 1,046	950	993	1,032
1892	1 1 2 2 2 2	1,229	1,046	952	828	997
1893	1 - '	1,417	1,032	966	828	1.033
1894	3.0-4	1,403	1,032	977	866	1.057
1895	3 000	1,403	995	977	943	1.016
1896	1 000	1,396	954	977 /	962	1,021
1897	1	1,375	963	977	930	1,009
1898	1 2 0 0 0	1.347	921	977	841	1,000
1899	1 - 00-	1.312	889	977	930	1,003
1900	بمفكوا	1,277	870	977	1,171	1,039
1901	1.045	1,243	921	998	1,089	1,048
1902	1 1	837	1,264	1,032	783	945
1903	000	861	1,000	1,032	828	936
1904	1	805	1,041	1,032	809	916
1905	000	805	1,018	1.032	834	942
1906 ,.	03.0	819	1,000	1,012	904	923
1907	000	903	1,000	1,000	943	948
1908	1 555	882	1,000	1,000	1,006	968
1000	1 555	910	1,000	1,000	1,006.	978
1910	1,024		1,000	1,000	1,000	999
1911	1,000	917 1,000	1,000	1,000	1,000	1,000
1912*	1 1 - 1 - 1 -	†	1,074	1,054	1.026	11,085

<sup>\*</sup> First nine months only.

<sup>†</sup> Price not available.

<sup>#</sup> Omitting Tea.

11. Meat (Group VI.)—This group includes five kinds of meat. The figures are continuous since the year 1890, and particulars for 1884 and 1885 have also been included. Reliable and comparable records as to the wholesale prices of meat for other years are not available.

Referring to the graph on page 65, it will be seen that price-index for the whole group fell from 1890 to 1895, when the minimum (682) was reached. The price level then rose until 1902, with the exception of a small decline in 1899. The maximum level (1447) was reached in 1902, a year of severe drought. There was but little change during 1903 and 1904, but prices again fell during 1905 and 1906, and then rose during 1907 and 1908, only to fall again until 1911. In 1912 a sharp rise took place, especially during the third quarter of that year.

Melbourne Wholesale Prices, 1884, 1885, and 1900 to 1912.

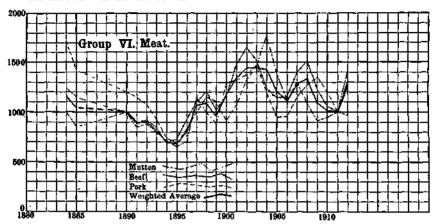
PRICE-RATIOS FOR BEEF, MUTTON AND PORK, AND PRICE-INDEX FOR WHOLE GROUP VI.

	¥	EAR.		Beef.	Mutton.	Pork.	Group V1
1884		, ,		1,238	1,000	1,714	1,151
1885		••	[	1,148	853	1,414	1,042
1890		٠.	,	984	1,000	1,200	1,007
1891				882	853	1,143	888
1892				919	882	1,071	901
1893				846	794	928	816
1894				693	706	743	695
<b>18</b> 95				72 L	647	686	682
1896				931	706	828	808
1897		, ,		1,095	1,147	1,000	1,072
1898				1,207	1,000	1,143	1,091
1899				810,1	882	1,100	960
1900	• •	• •	•	1,153	1,298	. 914	1,168
1901	٠		,	1,482	1,323	1,071	1,345
1902			[	1,651	1,382	1,328	1,447
1903				1,510	1,470	1,457	1,443
1904				1,238	1,765	1,214	1,427
1905	´ • •			1,139	1,382	943	1,209
1906				1,149	1,118	957	1,110
1907				1,396	1,298	1,143	1,294
1908				1,503	1,088	1,271	1,335
1909				1,222	911	1,357	1,088
1910				1.051	941	1,200	1,008
1911	• •	• •		1,000	1,000	1,000	1,000
1912*	• •			1,301	1,412	971	1,291

<sup>\*</sup> First nine months.

The wholesale price of beef fell from 1890 to 1894, when it reached its minimum (13s. 03/4d. per 100 lb.). It then rose steadily until 1898, and in 1899 it again fell. During the next three years it continued to rise, and attained its maximum in 1902 (31s. 11/4d. per 100 lb.). After this it fell till 1905, and rose again during 1907 and 1908. In 1909, 1910 and 1911 prices fell, but in 1912 a rise of 30 per cent. took place.

MELBOURNE WHOLESALE PRICES, 1884, 1885 and 1900 to 1912.\*—MEAT (GROUP VI.) GRAPH SHEWING PRICE-RATIOS FOR BEEF, MUTTON AND PORK, AND PRICE-INDEX FOR WHOLE GROUP VI.



\* Average of first nine months only of year 1912.

The price of mutton fell from 1890 to 1895, when it reached its minimum (1%d. per lb.). During the next two years it rose and then fell for another two years until 1899, when a pronounced rise took place, culminating in 1904 in a maximum price of 3%d. per lb. It is interesting to note that while beef fell in price immediately after the drought in 1902, the price of mutton continued to rise until 1904. With the exception of an increase in 1907, the price of mutton fell from 1904 until 1909, then commenced to rise, and in 1912 a large increase, amounting to over 41 per cent., took place.

The price of pork has fluctuated greatly. During the period 1890 to 1912 there are three peaks, viz., in 1898, 1903, when the maximum (63%d. per lb.) was reached, and 1909, and three depressions, viz., in 1895 (minimum price 3d. per lb.), 1900, and 1905. In contradistinction to other meats, the price of pork fell in 1912.

In the table on page 53, shewing the index-numbers for 1911-12 compared with preceding quinquennial periods as bases, it may be seen that the average level in 1911-12 was higher than in either of the two first quinquennial periods, but lower than in the two other periods.

12. Building Material (Group VII.).—This group comprises nine articles. The graph (see page 49) shews that the price-index for the group rose rapidly in 1872 and 1873, reaching the maximum (1446) in the latter year. The minimum level (704) was touched in 1892, and from that year onward until 1912 a fairly steady rise took place.

The price-indexes for 1911-12, taking each preceding quinquennial period as base (see p. 53), shews that prices were lower in 1911-12, than in 1871-5, but were higher in these two years than in any other period.

13. Chemicals (Group VII.)—Four articles are included in this group, the price-index for which shews that after a rise in 1872 and 1873 the maximum (1454) was reached in the latter year. Prices then began to fall, and, with the exception of recoveries in 1880, 1890 and 1896, continued to decline until 1909, when the minimum (815) was reached. Prices recovered again in 1910 and 1911, but fell in 1912. This is the only one of the eight groups which shews a fall in prices for 1912 (see graph on page 49).

The table on page 53 shews that in spite of the fall which occurred in 1912, the average price level for 1911-12 was higher than in either of

the three preceding quinquennial periods.

## IV.—IMPORT AND EXPORT INDEX NUMBERS.

1. General. —Retail and wholesale prices having been dealt with in Sections II. and III. respectively of this Report, the question of import and export values now remains to be investigated. The data upon which the index-numbers given in this part of the Report are based have generally been computed by dividing the total value of the imports or exports, as the ease may be, in any particular year of each commodity included in the investigation, by the total quantity imported or exported in the same year. The data thus obtained are, therefore, of the nature of average values rather than prices. They refer to all, grades or qualities included in the imports and exports and not to any special grade or quality, as in the case of retail and wholesale prices.

The average import values have generally been taken for those commodities which are either wholly or mainly imported into Australia, such as tea, cotton and kerosene; while for commodities which are largely produced in Australia, such as wheat, meat, butter and hides, export values have generally been taken. In regard, however, to coal, the imports and exports of which are comparatively small in relation to the local consumption, the average value at the pit's mouth has been taken, while for raw sugar, a commodity which is largely produced in Australia, the average import values have been selected in view of the incomplete nature of the returns available as to the value of the local production.

2. Scope of Investigation.—The values have been computed from the import and export values for the whole Commonwealth, as obtained from the Trade and Customs returns. These returns were first compiled and published as a whole for all the States on a uniform basis in the year 1903. In order to furnish the index-numbers for the whole of the Commonwealth period (since 1901) special investigations were made to secure the values based on the imports and exports for the whole Commonwealth for the two years (1901 and 1902) immediately precoding the year for which the classified returns were first available. In a few cases where the returns for the several States could not be satisfactorily co-ordinated for these years, values based on the trade of Victoria alone have been taken.

Owing to the difficulty in securing reliable data for the whole Commonwealth, and to the large amount of work involved, the investigation has not for the present been pursued for years prior to 1901.