PART V.—VITAL STATISTICS.

Registration system for births, deaths, and marriages. 442. In pursuance of the provisions of Act 28 Vict. No. 268, very complete records are kept of all births, deaths, and marriages which are known to occur in Victoria. The births and deaths are recorded by deputy registrars, and the marriages by registrars of marriages or clergymen throughout the colony. The birth and death registrations are made in duplicate, and the marriage registrations in triplicate, one copy being forwarded to the Registrar-General, and one retained by the deputy registrar, lay registrar, or officiating clergyman, as the case may be. The third copy of the marriage register is given to the parties married.

Time of registration dealt with in compiling statistics.

443. It is found convenient to deal with the records according to the periods in which the births, deaths, and marriages are registered, rather than those in which they occur. And-since the registration of a death should in all cases precede burial, and the registration of a marriage is simultaneous with the marriage itself-the registrations during any period, in the former case closely, and in the latter case entirely, agree with the actual transactions occurring therein. In the case of births, however, there is a wider margin, since the legal limit of registration extends to two months, and may in special cases extend to twelve months after the occurrence, the effect of which is, not so much that the numbers differ, since the births in one period may be expected to coincide approximately with those in another of similar duration, but that, in view of the length of time over which the registration is permitted to extend, and the natural tendency of some persons to postpone whatever is not absolutely necessary to be done on a particular day, a certain number of births escape registration altogether.

Marriages, 1880.

Marriages, 1880 and former years.

Marriage rate. 444. The marriages celebrated in Victoria during 1880 numbered 5,286, as against 4,986 in the previous year. The excess in favor of 1880 was thus 300.

445. More marriages took place in 1880 than in any previous year. They, however, exceeded the numbers in 1877 and 1878 by about 200 only. The three years named are the only ones in which more than 5,000 marriages have been solemnized in Victoria.*

446. The number of marriages compared with the total population is generally called the marriage rate. This in Victoria has for years past been declining, and whilst in 1861 and 1862 it was as high as 8

* For the number of marriages during each year since the first settlement of Port Phillip, see Statistical Summary of Victoria (first folding sheet) ante.

Vital Statistics.

per 1,000 of both sexes and all ages, and from 1863 to 1865 it was between 7 and 8, only once since 1865 has it reached as high as 7 per In 1880 it was 6.22 per 1,000, which, although a somewhat 1,000. higher rate than in 1879, and about equal to that in 1876 and 1878, was lower than in any previous year since the third from that in which the colony was founded. The following table gives the number of marriages and number of persons married per 1,000 of the population during each of the twenty-one years ended with 1880 :----

					Per 1,000 of the Mean Population.			
1.		Year.			Number of Marriages.	Number of Persons Married		
<u></u>	1860				8.15	16.30		
	1861	•••	•••	•••	8.21	16.42		
	1862	•••	•••	•••	8.26	16.52		
	1863	•••	· • •	•••	7.51	15.02		
	1864	•••	•••	•••	7.77	15.54		
	1865	•••			7.36	14.72		
	1866	•••		•••	6.76	13.52		
	1867	•••	•••	•••	6.92	13.94		
	1868	•••	•••		7.08	14.16		
	1869	•••	•••	•••	6.89	13.78		
	1870	•••	••.		6.63	13.26		
	1871	•••			6.37	12.74		
	1872	•••			6.36	12.72		
	1873				6.20	13.00		
	1874		•••	•••	6.33	12.66		
	1875	•••			6.33	12.66		
	1876	, •••	•••		6.21	12.42		
	1877	•••	•••	•••	6.31	12.62		
	1878	•••			6.20	12.40		
	1879				5.98	11.96		
	1880	•••	•••	•••	6.22	12.44		
A	verage	of twenty	r-one y	ears	6.77	13.24		

ANNUAL MARRIAGE	RATE,	1860	то	1880.
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447. It should be pointed out that the system of calculating marriage Marriage rates by finding the proportion that the marriages bear to the whole population-although it is followed in all countries which compile vital statistics-is a reliable guide whereby to estimate the condition of a community only when applied to countries which are in a normal state as regards age, but is apt to mislead in regard to new countries in which, at various stages of their history, the age conditions are subject to be disturbed by accessions of population from without. For it is evident that, if the number of persons-and especially of males-at marriageable ages increases, marriages are likely to increase; but, if there is a falling-off in the number of such persons, marriages must The tendency of the marriageable males to marry inevitably decline.

rates sometimes misleading.

is no doubt affected by their prosperity as well as the other circumstances by which they are surrounded, and of the intensity of these circumstances a marriage rate affords an indication, but to be of much value in countries where the elements of the population are disturbed, it should be calculated so as to show the proportion of marriages to such males, instead of to the total population. The reason why the latter is the method usually employed when the former gives results so much more reliable, is that the population, taken as a whole, can be estimated with an approach to correctness at almost any time, whilst difficulties lie in the way of forming a reliable estimate, between the census periods, of the number of single men at marriageable ages.

Proportion of marriages to population and single men.

448. The compilation of the returns of the census of 1881 is not sufficiently advanced to admit of the existing proportions between the number of marriages and of marriageable men being ascertained, but the following table gives such a statement for the four previous years in which a census was taken :---

PROPORTION	OF	MARRIAGES	то	POPULATION	AND	то
		Marriageab	LE	Men.		

Year		Bachelors aged		Proportion of Marriages.			
of Census.	Population.	20 and upwards, and Widowers at all ages.	Marriages.	Per 1,000 of Population.	Per 1,000 Bachelors and Widowers.		
1854	267,371	70,865	3,765	14.08	53.13		
1857	430,347	95,427	4,524	10.51	47.41		
1861	539,824	106,940	4,434	8.21	41.46		
1871	737,005	89,921	4,693	6:37	52.19		

Marriage rates at different periods compared. 449. The last column but one, which gives the marriage rate calculated according to the principle generally adopted, shows a very considerable decrease at each period as compared with the previous one, and a reference to a former table will show a still further decline for the three years 1878 to 1880, in which an average of only 6·13 marriages took place per 1,000 persons living. A very different state of things is, however, indicated in the last column, in which the marriage rate, calculated according to the more correct principle, shows some decline, it is true, between the first and second periods and the second and third periods, but a revival between the third and last periods to nearly the same rate as that which prevailed at the first period, which, being that of the most exciting time of the gold discoveries, was one during which marriage was often entered upon most recklessly.

Tendency to 450. It is thus clearly proved that, at the date of the census of 1871 marriage not declin- the true marriage rate was not only not declining, but had increased ing. Vital Statistics.

There is reason to believe that the results of the census just greatly. taken will show a smaller number of marriageable men than there were in 1871; but, as the marriages have maintained their numbers, it will follow that, although a comparison of the marriages with the whole population may cause an impression that the tendency to marry is decreasing, a similar comparison with the number of single males at marriageable ages will prove that this is not the case, but, on the contrary, that such tendency is as great as, if not greater than, it was at any former period.

451. The following table gives the marriage rates of the various Marriage Australasian colonies for each year from 1869 to 1879, except Western Austral-Australia, for which colony it is given for the last eight of those asian colonies. years :---

Number of Marriages † per 1,000 of Mean Populations. Year. Queens-New South South Western New Victoria. Tasmania. Wales. land. Australia. Australia. Zealand. 6.89 7.98 8.31 6.78 1869 6.44 8.32 6.63 7.79 7.80 6.90 6.62 1870 7.62... ... 7.73 8.06 6.77 1871 6.37 5.90 7.15• • • ... 5.567:42 8.70 $7 \cdot 20$ 6.17 1872 6.36 6.85 6.50 7.97 9.66 **6**•36 1873 8.00 6.25 7.91 ... 7.59 8.62 8.00 6.96 6.83 1874 6.33 8.87 ••• 7.26 7.738.63 6.63 1875 6.338.01 8.94 ... 7.07 1876 7.49 7.57 8.49 7.13 6.21 8.25 ••• 1877 6.31 7.737.57 8.66 6.38 7.79 7.63 ... 7.96 7.84 6.98 9.476.20 1878 6·20 8.03 ... 7.49 7.55 8.81 7.57 $7 \cdot 23$ 7.60 1879 5.98... 7.71 8.13 $7 \cdot 92$ 6.69 6.37 6.82 7.92Means

MARRIAGE RATES IN AUSTRALASIAN COLONIES, 1869 TO 1879.*

452. It will be observed that these rates are calculated upon the colonies in total population, according to which principle the marriage rate in Victoria declined with considerable steadiness during the whole In New South Wales the marriage rate, although not so period. high in the last year of the period as in the first, was steadier throughout than the rate in any other colony. In South Australia and Tasmania the marriage rates had been increasing for some years, but in both they were lower in 1879 than in 1878, when the maximum during eleven years was attained. These, moreover, are the only colonieswith the exception of Western Australia-which had in 1879 rates above the average of the eleven-year period. In Queensland the rate has decreased rapidly since 1873, and in Western Australia and New

which mar-

riage rate is increasing,

and contrary.

^{*} For the number of marriages in the various colonies during the eight years ended with 1880, see General Summary of Australasian Statistics (third folding sheet) ante.

[†] The numbers doubled give the persons married per 1,000 of the population.

Zealand it declined from 1875 to 1877. In Western Australia, however, there has been a revival since 1877. The minimum, during the eleven years, occurred in South Australia, Tasmania, and New Zealand in 1871; in New South Wales and Western Australia (the latter given for eight years only) in 1872; in Queensland in 1878; and in Victoria in 1879.

Order of colonies in respect to marriage rates. 453. The following is the order of the colonies in reference to their respective marriage rates in the last year shown in the table, and according to the average of the whole period of eleven years. It will be noticed that Victoria is at the bottom of both lists; also that the positions of New Zealand and New South Wales have not varied; but that whilst Queensland, which stood first according to the average of eleven years, fell to the fifth place in 1879, South Australia, which stood second according to the average of the period, rose to the first place in 1879:---

Order of Colonies in	REFERENCE TO MARRIAGE RATES.
Order in 1879.	Order in a Series of Years.
1. South Australia.	1. Queensland.
2. New Zealand.	2. { New Zealand. } South Australia.
3. Western Australia.	
4. New South Wales.	3. New South Wales.
5. Queensland.	4. Tasmania.
6. Tasmania.	5. Western Australia.
7. Victoria.	6. Victoria.

Rural life promotes marriage. 454. It may be mentioned that, other things being equal, a rural life tends more to the promotion of marriage than a town one, and the high marriage rates in South Australia and New Zealand may no doubt be partly due to their being agricultural communities; but there is also little doubt that the high rates in these are also to be attributed to the marriageable class being swelled each year by a large number of adult immigrants, to which cause New South Wales also probably owes its position on the list.* Neither in that colony nor in Queensland, where immigration has of late fallen off, and with it the marriage rate, nor in Western Australia, are agricultural pursuits followed to so large an extent as in Victoria—the low marriage rate in which can only be explained upon the assumption, for which there are good grounds, that, in proportion to the whole population, single men are more numerous in every one of the other colonies than they are here.

Marriage rates in Australia and Australasia. 455. The marriage rate in 1879 of the colonies situated on the Australian continent, taken as a whole, as also of those colonies with the addition of Tasmania and New Zealand, was lower than in any of the six previous years, as will be seen by the following table :---

* For number of immigrants and emigrants in each Australasian colony during the seven years ended with 1879, see table following paragraph 106 ante.

	•		Number of Marriages* per	1,000 of Mean Population.
, 	Year.		Continent of Australia.	Australia with Tasmania and New Zealand.
1873	•••	•••	7.35	7.38
1874		***	7.07	7.32
- 1875			7.12	7.38
1876	•••		6.93	7.15
1877	***	•••	7.05	7.18
1878	a, •••		7.08	7 • 27
1879	•••		6.88	7.01
	Means	د • • •	7.07	7 · 24

MARRIAGE RATES IN AUSTRALIA AND AUSTRALASIA, 1873 то 1879

456. Returns of the births, deaths, and marriages are obtainable Marriage for but few British colonies outside of Australasia. The following tain British are the marriage rates in those colonies-which it is to be regretted are, for the most part, of only minor importance-for which such particulars have come to hand, or can be gathered from their official reports. The low rate in Barbadoes is explained by the fact that the negro population as a rule ignore the marriage ceremony. The same circumstance, to a greater or less extent, doubtless also affects the marriage rate in Trinidad, and perhaps also in the Mauritius, although the low marriage rate in the latter would be, to a certain extent, accounted for by the fact that the large imported Cooly population is for the most part comprised of males, the females introduced being extremely few :---

MARRIAGE RATES IN CERTAIN BRITISH POSSESSIONS.

			Years.			Annual Rate per 1,000 of the Population.*		
Ceylon			1867-76	•••	•••	7.3		
Mauritius	•••	•••	1871-75	•••	•••	2.5		
Seychelles	•••	•••	1875-77	•••	•••	8.7		
Bermudas	•••		1871-75		•••	8.3		
West Indies								
St. Lucia	•••	•••	1878-79	•••	•••	$5 \cdot 2$		
St. Vincen	ıt		1872-76			6.3		
Barbadoes	•••		187 2-77	•••		3.7		
Grenada	•••	•••	1871-75	•••	***	5.6		
Dominica	•••		1871-75	•••	•••	6.9		
Trinidad		•••	1871-75	•••	•••	3.8		

457. The following table gives for each of the eleven years ended Marriage with 1878 a statement of the marriage rates in British and such foreign European

rates in countries.

rates in cer-

possessions.

* The numbers doubled give the persons married per 1,000 of the population.

countries as the information is available for. The figures have been taken from the reports of the Registrar-General of England :---

MARRIAGE RATES IN EUROPEAN COUNTRIES, 1868 to 1878.

				Numb	er of	Marria	iges * j	per 1,0	00 of 1	Mean F	opulat	tions.			
Year.	England and Wales.	Scotland.	Ireland.†	Denmark.	Sweden.	Austria.	Hungary.	Switzer- land.	Prussia.	German Empire.	Belgium.	The Nether- lands.	France.	Spain.	Italy.‡
1868	8.1	6.7	5.1	7.3	5.5	9.3	13.7	6.7	8.8		7.3	7.7	7:9	6.7	7.2
1869	8.0	6.7	5.0	7.4	5.7	10.4	11.0	7.2	8.9		7.4	.7.8	8.2	8.1	8.0
1870	8.1	7.2	5 ·3	7.4	6.6	9.7	9.8	7.0	7.4		7.0	7.9	6:0	6·3	7.3
1871	8·4	7.1	5.4	7.3	6.2	9.5	10.4	7.3	8.0		7.4	8.0	7.2	•••	7.5
1872	8.8	7.2	5 •0	7•5	7.0	9.2	10.8	7.8	10.3	10.3	7.8	8.2	9.8	•••	7.5
1873	8.8	7.8	4 •8	8.1	7.3	9.3	11.3	7.6	10.2	10.0	7.8	8.2	8.9	•••	7.9
1874	8.6	7.6	4 .6	8.2	7.3	9.0	10.7	8.3	9.7	9.6	7.6	8.3	8.3		7:6
1875	8.4	7.4	4.2	8.5	7.0	8.5	11.0	9.0	9.0	9.1	7.3	8.3	8.4		8·4
1876	8·4	7.5	5 ·0	8.2	7.1	8.2	9.9	8.1	8.6	8.5	7.2	8.2	7.9		8.1
1877	7.9	7.2	4 .6	8·1	6.9	7.4	9.1	7.9	8.0	8.0	6.9	8.0	7.6	•••	6.8
1878	7 ·6	6.8	4.7	7.4	6.2	7.5		7.4	7.8	7.7	6.2	7.7	7.6	•••	7.1
Means	8.3	7.2	4.9	7.8	6.7	8.9	10.8	7.7	8.8	9.0	7.3	8.1	8.0	7:0	7.6

Low European marriage rate.

458. It will be observed that in the last year named the marriage rates in all the European countries were below the average. In Austria the rate had been decreasing steadily since 1869; in England, Germany, and France since 1872; in Scotland, Sweden, Belgium, and the Netherlands since 1873; in Hungary, Switzerland, and Italy since 1875; and in Denmark since 1876. Moreover, in England, Hungary, Germany and Belgium the rate in the latest year was absolutely the lowest; in Austria, the Netherlands, and Italy the lowest with one exception; in Scotland the lowest with two exceptions; and in France (including one year in which the rate was equal to that in the last) with three excep-It may be remarked that in England the marriage rate was tions. lower in 1878 and 1877 than in any year since 1847, and is attributed by the Registrar-General of England to a continuance of the great commercial depression which set in in 1874, the chief causes of which were "the continued prevalence of strikes in most of the great trades, inactivity in the iron and coal industries, agricultural distress, bank failures, war between Russia and Turkey, and rupture between the Indian Government and the Ameer of Afghanistan."§

^{*} The numbers doubled give the persons married per 1,000 of the population. † The low marriage rate in Ireland is partly attributed to defective registration, particularly as regards Roman Catholic marriages, which amount to over 70 per cent. of the whole. It is also stated to be in part due to "the abnormal conditions arising from a large annual emigration of unmarried persons at what may be called the marrying ages."—See 15th Detailed Report of the Registrar-General of Ireland, page 6.

t In Italy the civil became the only legal form of marriage in 1866, and the low rate (5.6) in that and subsequent years is attributed to the non-registration of marriages solemnized only in churches. The number of such marriages, which was very great in 1866 and 1867, has been, however, decreasing—hence the apparent increase during the earlier years.

[§] See 41st report of the Registrar-General of England, page 10.

459. The mean marriage rate in Central Europe, as shown by the Australasian figures for Hungary, Germany, Austria, and Prussia, is much higher than in the other portions; the rate in England and Wales comes next; compared. and the rates in Holland and France follow. All these rates exceed 8 per 1,000. The lowest rates prevail in Ireland* and Sweden. In only two of the Australasian colonies did the mean marriage rate, during the eleven years ended with 1878, exceed 8 per 1,000-viz., in Queensland and New Zealand-the rate in the former being slightly greater, and in the latter slightly less, than in Holland. The average rate in New South Wales and South Australia is about the same as in Denmark, which is next to France in regard to the marriage rate, whilst the rate in Tasmania and Western Australia is about the same as in Sweden, and that in Victoria is lower than in any of the European countries named except Ireland.

460. The following, according to the reports of the Registrar-General Marriage of England, is the marriage rate of the United Kingdom during the eight years ended with 1878. If, however, the registrations in Ireland are defective, as is alleged,* some disturbance to the calculations must result therefrom. It will be observed that the rate was much lower in 1878 than in any previous year named :---

MARRIAGE RATE IN THE UNITED KINGDOM, 1871 TO 1878.

461. Although, as has been already stated, † rural rather than urban Marriage life tends to the promotion of marriage, it happens that, since the town and marriage ceremony is generally performed in towns, whatever may be the ordinary residence of the persons marrying, the marriage rate recorded there is much higher than that in the country. In 1880 it was in country towns three times, and in the metropolis more than three times, as high as in rural districts, as will be seen by the following

* See footnote (†) to table following paragraph 457 ante.

						Marri th	ages per 1,00 e Population	0 of
i fan de la companya	1871		•••		•••		8.21	
	1872	•••	•••	•••	•••	•••	7.98	
	1873	•••	•••		•••	•••	8.03	
ų to s	1874		•••	•••	•••		7.79	
5 A	1875	•••	•••	•••	•••	•••	7.67	
	1876		•••	•••	•••		7.70	
	1877	•••	•••	•••	•••	•••	7 • 32	
	1878		•••	•••	•••		7:09	
			•					
$\gamma_{i} \in [1, \infty]$			Mean	•••	•••	•••	7.72	

205

rate in United Kingdom.

country.

table, which contains a statement of the marriages celebrated in that year in the three classes of districts, together with the estimated mean populations of such divisions :—

		Marriages, 1880.			
Districts.	Estimated Mean Population.	Total Number.	Number per 1,000 of the Population.		
Melbourne and suburbs	277,200	2,554	9.21		
Towns outside Melbourne and suburbs	189,642	1,693	8.93		
Country districts	383,501	1,039	2.71		
Total	850,343	5,286	6.22		

MARRIAGES IN URBAN AND COUNTRY DISTRICTS, 1880.

Marriages in each quarter. 462. Marriages in Victoria have generally been most numerous in the autumn and spring quarters, and least numerous in the summer and winter quarters. In 1880, however, the number in the autumn was lower than that in any other quarter. The following table shows the number and percentage of marriages in each quarter of that year and the mean percentage in each quarter of the previous ten years :--

MARRIAGES IN EACH QUARTER.

				Year	Percentage	
Seasons	•	Quarter ended on last day of—	the	Number of Marriages.	Percentage.	in Ten Years: 1870 to 1879.
		1	······			
Summer		March	•••	1,360	25.73	24.44
Autumn		June	•••	1,213	22.95	26.47
Winter	•.• •	September		1,255	23.74	23.75
Spring	•••	December	•••	. 1,458	27.58	25.34
	-g V -					
	· · · ·	Year	•••	5,286	100.00	100.00

Former condition of persons married.

463. About four-fifths of the unions which take place are between bachelors and spinsters; and the next most numerous are generally those between widowers and spinsters, although they have sometimes been exceeded by marriages between bachelors and widows. Marriages between widowers and widows are generally somewhat less than a twentieth of the whole. The following are the number and percentage .n each of these groups during 1880 and the percentage during the previous decennial period :—

			Year	Percentage	
Previous Condition	1.		Number of Marriages.	Percentage.	in Ten Years : 1870 to 1879.
Bachelors and spinsters Bachelors and widows Widowers and spinsters Widowers and widows		•••	4,376 307 390 213	82·78 5·81 7·38 4·03	80·29 7·37 7·77 4·57
Total	•••	•••	5,286	100.00	100.00

FORMER CONDITION OF PERSONS MARRIED.

464. Divorced persons marrying are classed as bachelors and spin-Divorced persons. sters, unless in cases where they had become widowers or widows before contracting the marriage from which they were released by divorce. Three divorced males and 3 divorced females were married in 1880. The divorced males married spinsters, and the divorced females married bachelors.

465. Persons whose wives or husbands have not been heard of for a Deserted period of seven years may marry again without rendering themselves and wives. liable to be prosecuted for bigamy; but such unions are subject to the serious disadvantage that the issue by the second marriage would be illegitimate, and the marriage itself void, if it should turn out that the first husband or wife were alive at the time thereof. Three males and 10 females availed themselves of this provision in 1880. The former had not heard of their former wives for 7, 7, and 8 years respectively. Of the females, 8 married bachelors, and 2 widowers; 2 had not heard of their former husbands for 7 years, 2 for 8 years, and the remainder had not heard of theirs for 9, 12, 14, 19, 23, and 30 years respectively. In the previous year, 2 deserted males and 7 deserted females remarried.

466. In 1880, 603 widowers and 520 widows re-entered the marriage Remarriages. state. During the last seven years more widowers have remarried than Formerly it was different. In the six years ended with widows. 1873 the widowers re-entering the marriage state numbered 3,353 and the widows 3,529, and at earlier periods in the history of the colony the preponderance of remarriages of widows over those of widowers was even greater than this. Such a circumstance would be likely to happen only in a country in which females are much less numerous than males, and the reverse having been the case of late years affords indirect proof that the proportion of marriageable females to marriageable males in the population has increased. In England and Wales, during the twenty years ended with 1874, 48 per cent. more widowers remarried than widows, the number of the former being 490,912, that of the latter The following is a statement of the number of widowers and 332.428. widows who remarried in Victoria during each of the eleven years ended with 1880 :---

с.	Number of Ren	narriages of—		Number of Remarriages of-			
Year.	Widowers.	Widows.	Year.	Widowers.	Widows.		
1870	547	595	1877	666	600		
1871	587	605	1878	634	585		
1872	522	552	1879	637	553		
1873	586	591	1880	603	520		
1874	602	593					
1875	614	583	Total	C 676	6 400		
1876	678	623	10tal	6,676	6,400		

REMARRIAGES, 1870 TO 1880.

Marriages of Aborigines.

Marriages of Chinese.

467. The marriages of 9 Aboriginal males with Aboriginal females are included in the returns of 1880. The Aborigines who desire to enter the marriage state now generally do so according to some form recognized by law. Mr. R. Brough Smyth, in his work upon the Aborigines,* says that before the advent of Europeans there was no such thing as marriage in the proper sense of the word amongst the Australians. The acts which preceded matrimony were certainly not entitled to be regarded as rites. Men obtained wives by a convenient system of exchange, by conquest sometimes, and sometimes a woman was stolen. 468. Thirteen Chinese males were married in Victoria in the year 1880, as against 11 in 1879, 13 in 1878, 20 in 1877, and 14 in 1876. During the fourteen years prior to the year under review, 241 Chinamen were married in Victoria, or an average of 17 per annum. following table shows the nationalities of the women who formed matrimonial unions with Chinese during that period, also during the year under review :---

NATIONALITY OF WOMEN MARRYING CHINESE, 1866 TO 1880.

		Number of Marriages of Chinese Males.							
Birthplace of Wives.		Fourteen Years : 1866 to 1879.	Year 1880.	Total : 1866 to 1880.					
Victoria	••••	99	6	105					
Other Australian colonies		42	3	45					
England	•••	49	1	50					
Scotland		15		15					
Ireland		23	1	24					
Other British possessions		1	•••	1					
France		1	•••	1					
Germany		2		2					
Spain		1		1					
The United States		ī	•••	1					
China		4		4					
At sea		3	2	5					
Total	•••	241	13	254					

* The Aborigines of Victoria, vol. I., page 76, by R. Brough Smyth. Ferres: Melbourne, 1878.

Vital Statistics.

469. The marriage ceremony in Victoria may be performed either by Marriages by different the registered clergy of any religious sect or by lay registrars. In sects. 1880 nearly 89 per cent. of the marriages were celebrated according to the former, and rather more than 11 per cent. according to the latter Lay marriages are becoming more and more popular. system. The number performed during 1880 exceeded by 57 the number in 1879, and was greater than that in any previous year. The following table gives a statement of the number and percentage of marriages celebrated by each religious sect and by lay registrars during 1880, and during the previous ten years:---

and the second sec		Marriages celebrated					
Marriages performed according to the usages of the—	Yea	r 1880.	Ten Years : 1870 to 1879.				
	Number.	Percentage.	Number.	Percentage			
Church of England	1,341	25.37	12,059	24.50			
Presbyterians	1,074	20.32	10,046	20.41			
•Wesleyans	834	15.78	8,030	16.31			
Bible Christians	105	1.99	790	1.60			
Independents	247	4.67	2,683	5.45			
Baptists	197	3.73	1,780	3.62			
Lutherans	63	1.19	511	1.04			
Unitarians	2	•04	8	•02			
Society of Friends		· • • •	5	•01			
Calvinistic Methodists	7	·13	89	•18			
Roman Catholic Church	729	13.79	8,907	18.09			
Jews	28	•53	208	•42			
Other sects	71	1.34	494	1.00			
Lay registrars	588	11.12	3,620	7.35			
Total	5,286	100.00	49,230	100.00			

MARRIAGES BY DIFFERENT DENOMINATIONS.

470. It should be mentioned that, occasionally, a marriage is Duplicate marriages. performed twice over, viz., by a lay registrar and a clergyman, or by clergymen of two different denominations. It is not always easy to detect these cases in the registers, but the circumstance occurs too seldom to cause any serious disturbance in the marriage statistics.

471. Of the 9 Aboriginal marriages which took place in 1880, 6 Sects of Aboriginals were solemnized according to the rites of the Moravians, and 3 married. according to those of the Church of England.

472. Of the marriages of Chinese in 1880, 2 were celebrated Sects of according to the rites of the Church of England, 3 according to those married. of the Presbyterian, 4 according to those of the Wesleyan, and 1 according to those of the Roman Catholic Church, and 3 were performed by lay registrars.

0

Chinese

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marks.

473. The numbers of either sex who evinced their want of elementary Signing with education by signing the marriage register with a mark instead of in writing were as follow in 1880, the proportion of those who signed with marks to the total numbers married being also shown :--

· · · · · · · · · · · ·		Signing with Marks.					
Persons Married.	Numbers Married.	Total Number.	Number in every 100 Married.				
Bridegrooms	5,286	221	4.18				
Brides	5,286	216	4.09				
Mean	5,286	218	4.12				

STANDA MADDIA OF DEGLEMED WITH MADES 1880

More males than females signed with marks, 1880.

474. It will be noticed that the proportion of females signing with marks was smaller than that of males. This is the first occasion on which such a circumstance has happened in this colony; the males in previous years having been, according to this test, invariably found to be the least illiterate.

Increased numbers signing in writing.

475. In proportion to the total numbers married, an evident increase has taken place of late years in the number of both males and females signing the marriage register in writing. In 1879 the proportion of females signing with marks was slightly greater than in 1878, and in 1880 the proportion of males so signing was greater than in 1878 and 1879; but, with these exceptions, a constant improvement has been apparent from year to year-each year, as compared with its predecessor, showing a smaller proportion of persons signing with marks. The following are the proportions for the last eight years :---

NUMBERS SIGNING WITH MARKS PER 100 MARRIED, 1873 TO 1880.

Year.			Men.		Women.		Mean.
1873	•••		6.55		9.97	•••	8.26
1874	•••	• • •	6.52	•••	9.91	• • •	8.22
1875		•••	5.48	•••	9·43	•••	7.46
1876	•••	•••	5.31	•••	7.50		6.41
1877	•••	•••	5.04	•••	6.05	•••	5.53
1878	•••	•••	4.12		$5 \cdot 30$	•••	4.71
1879	•••	•••	3.81	•••	5.60	•••	4.71
1880	•••	•••	4 ·18	•••	4.09	•••	4.12

Signing with marks, 1853 to 1872.

476. A very much more decided improvement is shown by comparing these results with those of the twenty years prior to 1873, which embrace the whole period from 1853, when the registration system was inaugurated in Victoria, to the end of 1872. In this period 86,062 marriages were registered, with the result that 7,902 of the bridegrooms and 17,824 of the brides signed the register with marks. These numbers give the following proportions as the average for the twenty years :---

NUMBERS	SIGNING	WITH	MARKS	PER	100	MARRIED,	1853	то	1872.
	Men.		W	omen.		Mean.			
	9.18	•	20	0.71	••	. 14.95			

477. The marriages in which marks instead of writing were made use Cases of both of in 1880 numbered 389, but in only 48 of these, or less than an eighth, ^{signing} with marks. did both parties so sign. In the 341 other instances either the husband or the wife signed in writing. Thus, whereas the marriages in which one or both could not write amounted to about a thirteenth of the whole, in the case of only about 1 in every 110 marriages could neither party write.

478. In the case of the 9 marriages of Aborigines celebrated in 1880, Signatures of Aborigines. all but one of the females, but only one of the males, signed the marriage register in writing.

479. The proportion of persons signing with marks is found to differ Signing with according to the religious denomination. Means are afforded by the each sect. following table of observing the position of the adherents of the different sects so far as the possession of a sufficient amount of rudimentary education to enable them to write their names is concerned. The figures are those of the year 1880 and the average of the previous ten years. Considerable improvement will be noticed in respect to all the principal sects :---

	N	umber Signi	ng with M	arks in ever	y 100 Married	1.		
Marriages performed according to the usages of the—		Year 1880.		Ten Years: 1870 to 1879.				
	Men.	Women.	Mean.	Men.	Women.	Mean.		
Church of England	3.73	2.16	2.94	4.69	6.99	5.84		
Presbyterians	2.80	3.17	2.98	3.88	6.26	$5 \cdot 22$		
Wesleyans	3.84	2.40	$3 \cdot 12$	$\{ \} 4 \cdot 34$	5.88	5.11		
Bible Christians	3.81	4.76	$4 \cdot 28$] }				
Independents	2.02	3.64	2.83	3.91	6.63	$5 \cdot 27$		
Baptists	3.05	2.54	2.79	3.59	5.56	4.57		
Lutherans		3.17	1.58	1.96	4.20	3 • 23		
Calvinistic Methodists	14.29*		7.14		6.74	3.37		
Roman Catholics	6.86	9.19	8.02	10.97	17.19	14.08		
Jews			•••	1.44	1.92	1.68		
Other sects	8.45		$4 \cdot 22$	6.68	4.45	5.56		
Lay registrars	6.29	7.65	6.97	6.28	14.03	10.30		
Total	4.18	4.09	4.13	5.62	8.92	7.27		

SIGNING WITH MARKS IN EACH SECT.

* Only 7 marriages in 1880; one man signed with a mark.

Roman Catholic and civil marriages. 480. It will be observed that the proportion of those signing with marks is higher amongst marriages according to the rites of the Roman Catholic Church than amongst those celebrated by any other religious sect, but that the numbers in 1880 show a very considerable improvement as compared with the previous ten years. The proportion amongst civil marriages is usually somewhat lower than amongst marriages by Roman Catholics, and these also show marked improvement in this respect of late years.

Marriages by Unitarians, Calvinists, and Jews.

481. In the 10 marriages by Unitarians which took place in the eleven years ended with 1880, not one instance occurred of either of the parties signing with a mark; this sect therefore finds no place in the above table. In the 96 marriages by Calvinistic Methodists all but one of the males signed in writing, but 6 of the females signed with marks. In the 236 marriages of Jews only 7 persons signed with marks.

Signing with marks in Australasian colonies.

482. A statement of the numbers who sign the marriage register with marks is published in all the Australasian colonies except Western Australia and Tasmania, and from the figures given the following percentages for 1877, 1878, and 1879, have been deduced. The colonies are placed in order according to the state of education thus displayed, the colony with the smallest proportion signing with marks being placed first, and that with the reverse last:—

Year	Number Signing with Marks to every 100 Married.					
	Men.	Women.	Mean.			
1877	$5 \cdot 04 \\ 4 \cdot 12 \\ 3 \cdot 81$	6 • 02	5•53			
1878		5 • 30	4·71			
1879		5 • 60	4·71			
1877	$3 \cdot 95 \\ 2 \cdot 96 \\ 3 \cdot 31$	8·54	6 • 25			
1878		6·85	4 • 90			
1879		6·41	4 • 86			
1877	6·14	7·89	7·01			
1878	5·09	7·00	6·04			
1879	6·48	6·93	6·70			
1877	8·45	11·07	9·76			
1878	7·71	8·52	8·11			
1879	6·86	8·31	7·58			
1877	7.78	14·15	10•97			
1878	6.23	13·30	9•76			
1879	6.86	11·97	9•41			
	1878 1879 1877 1878 1879 1877 1878 1879 1877 1878 1879 1877 1878 1877 1878 1877 1878 1877 1878	Year.Men. 1877 $5 \cdot 04$ 1878 $4 \cdot 12$ 1879 $3 \cdot 81$ 1879 $3 \cdot 81$ 1877 $3 \cdot 95$ 1878 $2 \cdot 96$ 1879 $3 \cdot 31$ 1877 $6 \cdot 14$ 1878 $5 \cdot 09$ 1879 $6 \cdot 48$ 1877 $8 \cdot 45$ 1878 $7 \cdot 71$ 1879 $6 \cdot 86$ 1877 $7 \cdot 78$ 1878 $6 \cdot 23$	Year.100 Married.Men.Women. 1877 $5 \cdot 04$ $6 \cdot 02$ 1878 $4 \cdot 12$ $5 \cdot 30$ 1879 $3 \cdot 81$ $5 \cdot 60$ 1877 $3 \cdot 95$ $8 \cdot 54$ 1878 $2 \cdot 96$ $6 \cdot 85$ 1879 $3 \cdot 31$ $6 \cdot 41$ 1877 $6 \cdot 14$ $7 \cdot 89$ 1878 $5 \cdot 09$ $7 \cdot 00$ 1879 $6 \cdot 48$ $6 \cdot 93$ 1877 $8 \cdot 45$ $11 \cdot 07$ 1878 $7 \cdot 71$ $8 \cdot 52$ 1879 $6 \cdot 86$ $8 \cdot 31$ 1877 $7 \cdot 78$ $14 \cdot 15$ 1878 $6 \cdot 23$ $13 \cdot 30$			

2

SIGNING WITH MARKS IN AUSTRALASIAN COLONIES, 1877 TO 1879.

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483. By these figures it appears that, in the matter of signature to victoria the the marriage register, all the colonies showed improvement in 1878 as rate colony. compared with 1877, and many of them a still further improvement in 1879; also that in all the years the proportion of persons able to sign in writing was higher in Victoria than in any other colony. The proportion of illiterate males, however, was greater during the last two years named in Victoria than in New Zealand, but that of illiterate females was so much less that, according to the mean of the two sexes, the position of Victoria was above that of New Zealand.

484. No returns are at hand showing the manner in which the signing with marriage registers are signed in British colonies other than those the United named. The following, however, taken from the reports of the Registrars-General, are the proportions using marks in England, Scotland, and Ireland :---

,	4	Number Signing with Marks to every 100 Married						
Country.	Year.	Men.	Women.	Mean.				
England and Wales	187.8	14.6	19.8	17.2				
Scotland	1875	8.6	16•9	12.7				
Ireland	1878	28.5	33 • 7	31•1				

SIGNING WITH MARKS IN THE UNITED KINGDOM.

485. From the figures it would seem that Scotland is before and Illiteracy in United Ireland is behind England in point of adult education, but that all are Kingdom much behind even the most backward of the Australasian colonies. and compared. In England, in the 5 years ended with 1878, the greatest proficiency amongst men was attained in the Westmoreland district, where the percentage signing with marks was only 7.4; but even this shows more illiteracy amongst males than that found to exist in 1879 in any of the colonies named. As regards females the highest state of proficiency prevailed in the Surrey district, where the percentage signing with marks was 8.1, or a lower proportion than in New South Wales or Queensland.

486. Of other countries the only one respecting which similar par-signing with marks in ticulars are at hand is France, where, according to the returns of 1877, France. illiteracy-by the marriage register test-is somewhat more prevalent amongst males, and very much more so amongst females, than in England and Wales, but in both cases is considerably lower than in In France, the proportions signing with marks in every Ireland. 100 marriages during 1877 were — males, 18.52; females, 29.60; mean, 24.06.

and colonies

marks in Kingdom.

least illite-

Adult education in Victoria superior to elsewhere. 487. It is satisfactory to find that, according to the test afforded by the marriage registers, a knowledge of the rudiments of education is more common amongst adults in Victoria than in England or France, which are probably more advanced in this respect than most other European countries. There is, moreover, every reason to expect that this knowledge will gradually become universal in the colony, as the children éducated under the compulsory system of public instruction established in 1873 arrive at marriageable ages.

Ages of persons married.

.1 .

488. The age of both bride and bridegroom was specified in the case of all but 46 of the 5,286 marriages which took place in 1880.* In 38 of the defective entries the age of neither party was given; in 2 cases the age of the husband was stated, not that of the wife; and in 6 instances the age of the wife was given, not that of the husband. The following table shows the ages of the husbands and of the wives in combination :--

·	<u>-</u>					<u>, , , , , , , , , , , , , , , , , , , </u>	·								+(• •			
		• •				•	Ag	es of	Wiv	ves.		•	11.00						ds.
Ages of Husbands.	14 to 15.	15 to 16. 16 to 17.	5	18 to 19.	19 to 20.	20 to 21.	21 to 25.	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60.	60 to 65.	65 to 70.	70 to 75.	Unspecified.	Total Husbands.
17 to 18 years 18 to 19 , 19 to 20 , 20 to 21 , 21 to 25 , 25 to 30 , 30 to 35 , 35 to 40 , 40 to 45 , 50 to 55 , 55 to 60 , 60 to 65 , 70 to 75 , 80 to 85 , 85 to 90 , Unspecified	···· 2 ···· ··· ··· ··· ···		$\begin{array}{c c} 1 \\ 7 \\ 6 \\ 8 \\ 9 \\ 67 \\ 40 \\ 2 \\ 10 \\ 2 \\ 9 \\ \end{array}$	$\begin{array}{c} \dots \\ 3 \\ 6 \\ 13 \\ 121 \\ 70 \\ 25 \\ 12 \\ 5 \\ 3 \\ 2 \\ \dots \\ \dots$	1 1 8 21 187 110 31 9 6 	$ \begin{array}{c} 1\\ 1\\ 2\\ 24\\ 232\\ 144\\ 44\\ 18\\ 7\\ 3\\ 2\\\\ 2\\\\ 5\\ \end{array} $	$\begin{array}{c} 1 \\ 4 \\ 9 \\ 38 \\ 996 \\ 788 \\ 271 \\ 124 \\ 49 \\ 21 \\ 9 \\ 21 \\ 1 \\ 1 \\ 1 \\ \dots \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	 1 3 107 314 166 127 58 26 11 7 2 	$\begin{array}{c} \dots \\ \dots \\ 16 \\ 61 \\ 82 \\ 70 \\ 49 \\ 27 \\ 19 \\ 5 \\ 5 \\ 1 \\ 1 \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \end{array}$	$\begin{array}{c} \cdots \\ \cdots \\ 1 \\ 5 \\ 11 \\ 24 \\ 42 \\ 39 \\ 34 \\ 16 \\ 12 \\ 7 \\ 2 \\ 1 \\ \cdots \\ \end{array}$	$\begin{array}{c} \cdots \\ \cdots \\ 2 \\ 6 \\ 19 \\ 28 \\ 35 \\ 15 \\ 9 \\ 11 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \cdots \\ 1 \\ \end{array}$	 2 1 4 29 288 10 9 	$ \begin{array}{c} \cdots \\ \cdots \\ \cdots \\ \cdots \\ \cdots \\ \cdots \\ 1 \\ 2 \\ 6 \\ 10 \\ 4 \\ 3 \\ \cdots \\ \cdots$	···· ···· ···· ···· ···· ···· ···· ···· ····	···· ···· ··· ··· ··· ··· ··· ··· ···				5 11 33 114 1757 1557 661 435 251 186 111 86 111 60 46 9 9 4 1 1 44
Total wives	$\overline{2}$	8 4	3 146	260	374	485	2314	822	 336	194	126	83	26	14	5	3	2	40	528

AGES OF PERSONS MARRIED, 1880.

NOTE.—This table may be read thus:—Three men between 40 and 45 married girls between 16 and 17; a woman between 60 and 65 married a man between 40 and 45, &c.

* There is no reason to suppose that in Victoria the age of either party to a marriage is often wrongly stated, and the cases in which the age is not specified are but few. It may, however, not be amiss to quote the following from the 41st (last) report of the Registrar-General of England, page xv.:-"I should be glad if the clergy, at the time of registering the marriage, would state that it is of considerable importance, not only to the parties themselves, that their precise ages should be returned either for tracing pedigree or for proof of personal identification in establishing title to propertybut that such particulars would also enhance the values of these national records for purposes of statistical investigation."

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489. An examination of the above table will show that in 1,539 Relative instances, or 29 per cent. of the whole, both parties to the marriage husband were about the same age; in 338 instances, or 7 per cent. of the whole, the wife was older than the husband; and in 3,363 instances, or 64 per cent. of the whole, the husband was older than the wife.

490. Boys not under 14 and girls not under 12 years of age may, with Marriages the consent of their parents or guardians, legally marry in Victoria; but, as a matter of fact, marriages are seldom contracted at such early Five of the males, however, who married in 1880 had not ages. reached their eighteenth year, and two of the females had not reached their fifteenth; as many as 163 of the males, or 1 in every 32, and no fewer than 1,321 of the females, or just a fourth, had not attained the full age of 21 years... These proportions fluctuate from year to year. In 1880, as compared with previous years, the proportion of males marrying under age was high, but that of females low.

491. In proportion to the total numbers marrying, more females but Marriages of fewer males marry under age in Victoria than in England and Wales. This is shown by the figures in the following table; but it should be pointed out that this is not an infallible test of the tendency to marry under age, to determine which accurately, the minors marrying should be compared with the total number of persons at the same period of life :—

MARRIAGES OF MINORS IN VICTORIA AND ENGLAND AND WALES.

tan e i i Frank		• • • •	In every 10	00 Marriages, Nun 21 Years of Age.	abers under
- <u>1</u> ;	Persons Married.		In V	ictoria.	In England and Wales.
		•	Year 1880.	Ten Years : 1870 to 1879.	Ten Years: 1868 to 1877.
lor") Astronom	Bridegrooms	• • •	3.08	2.37	7.90
	Brides	•••	24.99	28.61	21.91
₹.25 ₩	Mean	•••	14.03	15.49	14.90

492. The births registered in Victoria during 1880 numbered 26,148, Births, 1880. as against 26,839 in 1879. The decrease in the year under review, as compared with the previous one, was thus 691.

493: The births in 1880 were less numerous than in any previous Births in 1880 and year since 1867, except 1877 and 1869.* former years.

* For number of births in each year, see Statistical Summary of Victoria (first folding sheet ante).

of minors.

minors in

Victoriaand England.

494. The birth rate has been decreasing steadily for years past, and in 1880 was lower than it was in any year of the previous vicenniad. The following are the figures for the twenty-one years :---

ANNUAL BIRTH RATE, 1860 TO 1880.

						ths per 1,000 of an Population.
1860	•••	•••	•••	•••	•••	42.81
1861	***		***	•••	•••	43.46
1862	•••	•••	•••	•••	•••	44.20
1863	•••	•••	•••	•••	•••	42.46
1864	•••		•••	*** %	•••	43·79
1865	•••	•••	•••	•••	•••	42.40
1866	•••	•••	***	•••	•••	39.76
1867	•••	•••	•••	•••	•••	39.75
1868	•••	•••	•••	•••	•••	41 · 08
1869	•••	***			•••	37.89
1870	•••	***	•••	•••	•••	38.07
1871	***	•••			•••	37.15
1872	•••	•••	•••	•••	•••	36.33
1873		•••	•••	•••	•••	36.71
1874	•••	•••	•••	•••	•••	34.46
1875	•••	•••	•••	•••	•••	33.94
1876	•••	•••	•••		•••	33.61
1877	•••	•••	•••		•••	32.17
1878	•••	•••	•••	•••		32.36
1879	•••	•••	•••	•••	•••	32.18
1880	•••	•••	•••	•••	•••	30.75
	Avera	ge of twe	ntv-one v	vears		37.27
		<u> </u>				

Birth rates sometimes misleading.

495. Birth rates, based upon a comparison of the number of events with the total population, are, like marriage rates calculated upon a similar basis, apt to mislead, unless the population is in a normal condition in regard to age. It must be quite evident that, if there is not a sufficient proportion of women at the fruitful or child-bearing ages in a community, the birth rate cannot be high, but that an excess of women at such ages would be likely to cause a high birth rate. The frequency of marriages also raises the birth rate; but there are in some countries, such as France, circumstances owing to which, notwithstanding the proportion of women of fruitful age is quite up to the average, and marriages are numerous, the birth rate is still low. The census just taken may be expected to throw light upon this as well as on many other social questions of the deepest interest.

Birth rates in Australasian colonies.

496. Complete returns of the births in the Australasian colonies are available to the end of 1879, and from these and the mean populations of the respective colonies during each year the birth rates have been calculated in the office of the Government Statist, Melbourne. The following table gives the birth rates of the different colonies for each year from 1869 to 1879, or as many years between those periods as the figures are available for :---

Birth rate.

ina internet. Altorità <u>s i</u> nc	t		Number	r of Births	per 1,000 of	Mean Popu	lations.	
Yea	.	Victoria.	New South Wales.	Queens- land.	South Australia.	Western Australia.	Tasmania.	New Zealand.
1869	•••	37.89	40.41	42.83	39.03	•••	28.27	41.90
1870	•••	38.07	39.76	43.51	38.48	•••	30.18	42.32
1871	•••	37.15	39.42	43.25	38.34	•••	30.16	40.64
1872		36.33	38.27	40·70	37.60	32.42	29.44	39.50
1873		36.71	39.01	40.82	36.42	31 • 43	29.43	39.00
1874	•••	34.46	38.75	41.11	38.22	33.71	29.72	40.27
1875	•••	3 3 · 94	37.83	38.90	35.70	28.72	29.88	40.23
1876	•••	33.61	37.69	37.48	37.71	33 · 9 8	30-11	41.73
1877	•••	32.17	36.92	36 •75	37.36	33.07	30.21	41.28
1878	•••	32.36	37.36	35.77	38.23	$31 \cdot 11$	32.27	42.14
1879	•••	32.18	37.72	36.74	38.96	34.38	32.05	40 ·32
Mea	ins	34.99	38.47	39.81	37.82	32.35	30.16	40.85

BIRTH RATES IN AUSTRALASIAN COLONIES, 1869 TO 1879.*

497. The birth rates in Victoria and New South Wales - more Colonies in especially the former — have been declining with little intermission which birther rate is throughout the whole, and the birth rate in Queensland during the and the latter half, of the period of eleven years. The rates in South Australia and Western Australia fluctuate considerably; in 1879 the rates in both these colonies were above the average. The colonies in which the birth rate has shown signs of increase of late years are Tasmania and New Zealand; in the former it increased steadily, and in the latter not quite so evenly, in the six years ended with 1878, but in 1879 it showed a diminution in both colonies, especially in New Zealand. Α glance at the table will show that, in all the colonies except these two, higher rates prevailed in the earlier than in the latter years of the period.

498. The following is the order of the colonies in reference to Order of their respective birth rates in the last year shown in the table and respect to according to the average of the whole period of eleven years. It will be observed that Victoria is the lowest but one on the list for 1879 and stands fifth in the eleven-year series :---

colonies in birth rates.

increasing,

contrary.

ORDER OF AUSTRALASIAN COLONIES IN REFERENCE TO BIRTH RATES.

Order in 1879.	Order in a Series of Years.
1. New Zealand.	1. New Zealand.
2. South Australia.	2. Queensland.
3. New South Wales.	3. New South Wales.
4. Queensland.	4. South Australia.
5. Western Australia.	5. Victoria.
6. Victoria.	6. Western Australia.
7. Tasmania.	7. Tasmania.

* For the number of births in the various colonies during the eight years ended with 1880, see General Summary of Australasian Statistics (third folding sheet) ante.

Birth rate in Australia and Australasia.

499. In the Australasian colonies, taken as a whole, the birth rate had from 1873 to 1877 shown a more marked decline than the marriage There was, however, a slight improvement in 1878 and 1879, rate.* as will be seen by the following figures :---

BIRTH RATE IN AUSTRALIA AND AUSTRALASIA, 1873 TO 1879.

8 a. * . * 	Year.		 	 Continent of Australia.	Aus Tasmania	stralia with and New Zealand
1873 1874 1875 1876 1877 1878				$ \begin{array}{r} 37 \cdot 36 \\ 36 \cdot 46 \\ 35 \cdot 29 \\ 35 \cdot 20 \\ 34 \cdot 15 \\ 34 \cdot 31 \\ 24 \cdot 55 \\ \end{array} $		37.19 36.70 35.82 36.04 35.16 35.51
1879		€	•••	 34.55		35•42

Birth rates in British

These 500. The birth rates in certain British colonies outside Australasia possessions. including all those for which the information is available, are shown in the following table. In some cases the figures are only for one or two • years :-- Charles 1 dest

BIRTH RATES IN CERTAIN BRITISH POSSESSIONS.

Colon	ies.	Years.	Number of Births per 1,000 of the Population.
	•		the second s
Ceylon		.1867-76	27.7
Straits Settleme	ents	1873-7	9·3†
Hong Kong	•••	1875	13.8
Mauritius	•••	1876-7	36.5
Seychelles	•••	1875-7	37.4
Bermudas	•••	1871-5	37.8
British Guiana	•••	1871-9	35.5
West Indies—			
Bahamas		1874-5	39.0
Jamaica	•••	1875	33.1
St. Lucia	•••	1869-79	46•4‡
St. Vincent	••• •••	1870-9	46·0
Barbadoes	••• •••	1872-8	43.2
Grenada		1871–5	45 ° 2
Antigua	•••	1875-6	40.4
Montserrat	· · · · · · · · · · · · · · · · · · ·	1874-5	48.8
Dominica	•••	1871-6	31.0
Trinidad	•••	1876	35.2

Birth rates in European countries.

501. A statement of the birth rates in British and certain foreign countries for each of the eleven years ended with 1878 is given in the

* See paragraph 455 ante. † Registrations incomplete. ‡ Including still births. following table. The figures have been taken from the reports of the RegistrariGeneral of England : He is a supervisit of texture of the

BIRTH RATES IN EUROPEAN COUNTRIES, 1868 TO 1878. 中国的

4		2.3	6) e	Nu	umber	of Birt	hs per	1,000 o	f Mea	n Pop	ullation	IS:	•		
Year.	England and Wales.	Scotland.	Ireland.*	Denmark.	Sweden.	Austria.	Hungary.	Prussia.	German Empire.	Switzerland.	Belgium.	The Nether- lands.	France.	Spain.	Italy.
1868 1869 1870 1871 1872 1873 1874 1875 1876 1877	35 · 2 35 · 0 35 · 8 35 · 5 36 · 2 35 · 5 36 · 6	$ \begin{array}{r} 34 \cdot 3 \\ 34 \cdot 6 \\ 34 \cdot 5 \\ 35 \cdot 0 \\ 34 \cdot 9 \\ 35 \cdot 7 \\ 35 \cdot 4 \\ 35 \cdot 9 \\ \end{array} $	$27 \cdot 7 \\ 28 \cdot 1 \\ 27 \cdot 8 \\ 27 \cdot 1 \\ 26 \cdot 6 \\ 26 \cdot 1$	30.3 30.7 30.8 31.8 32.5	28·2 28·3 30·4 30·0 30·8 30·9 31·0 30·7	40 · 3 40 · 1 40 · 4	$43 \cdot 0 \\ 41 \cdot 0 \\ 42 \cdot 2 \\ 42 \cdot 7 \\ 45 \cdot 2 \\ 45 \cdot 6$	37:7 38:1 33:8 39:7 39:7 40:1 40:3 40:5	$39 \cdot 7$ $40 \cdot 1$ $40 \cdot 6$ $40 \cdot 8$	$31 \cdot 2$ $31 \cdot 9$ $33 \cdot 5$ $32 \cdot 9$	$32 \cdot 3$ $31 \cdot 0$ $32 \cdot 3$ $32 \cdot 5$ $32 \cdot 6$ $32 \cdot 5$ $33 \cdot 2$	35·9 35·3 35·8 36·0 36·1 36·3 36·8	$\begin{array}{c} 22 \cdot 6 \\ 26 \cdot 8 \end{array}$		35·3 37·0 36·7 37·0 37·8 36·3 34·9 37·7 39·0 86·7
1878	35·9	35·3	25·1	$\frac{31 \cdot 6}{30 \cdot 9}$	29·7	38·9	••• •••	38·6	38·8	31·5	31 · 5	35·8	1	····	35.9

502. It is reasonable to suppose that the averages in this table will Discrepanfollow a similar order to those in the table of marriage rates, † and this is birth and found to be the case, except in respect to three countries, viz., France, marriag Spain, and Italy. The discrepancy may be only apparent in the case of European countries. Spain, as the average is for no more than three years, and in Italy it is satisfactorily explained by the circumstance that many marriages have not been registered ; t but as regards France no such explanation can be given, and the fact remains that, whilst it has a comparatively high marriage rate, the birth rate is lower than that in any other European country, and is but little above its own death rate. §

503. The birth rate of Victoria, taken over a series of years, is about Australasian equal to the rate in Scotland and Spain, lower than that in England and Holland (in which the rates are about equal), Italy, or the Central European pared. States, but higher than that of any of the other countries named in the In four of the Australasian colonies-viz., Queensland, New last table. Zealand, New South Wales, and South Australia-the rate is about

marriage

and Euro-. pean birth rates com-

^{*} It is explained that the low birth rate in Ireland is partly attributable to the small proportion of females in the population at child-bearing ages. (See 15th Detailed Report of the Registrar-General of Ireland, pages 12 and 29.) There is also no doubt, however, that the figures understate the truth, the registration being admittedly defective. † See table following paragraph 457 ante. ‡ See footnote (1) to table following paragraph 457 ante. § An explanation of the low birth rate in France is given, as follows, by the Registrar-General of England, in his 41st Report, page xlvi :—"The low birth rate in France cannot be attributed to a small proportional number of women at the child-bearing ages, for the proportion is higher in France than in any other country of Europe ; indeed, it is generally recognised to be chiefly, though indirectly, due to the subdivision of land among the peasant proprietors. The better class of the laboring population aspire to become proprietors of small holdings : by thrift and industry they accumulate capital for this purpose, and avoid by their social philosophy the division of their property amongst a large family at their decease."

equal to that in Central Europe—the rate in the two former approximating to that in Hungary, and in the two latter to that in Prussia. In Western Australia the rate is about the same as in Belgium, whilst in Tasmania it is lower than in any of the countries named, except Sweden, Ireland, and France.

Birth rate in United Kingdom, 504. According to the reports of the Registrar-General of England, the following is the birth rate of the United Kingdom during the eight years ended with 1878 :---

	Birth	RATE I	N THE UN	ITED KINGD	ом, 1871	I то 18	878.	
·		Bir th	ths per 1,000 of e Population.			Birt the	hs per 1,000 of Population,	•
1871	•••	•••	35.0	1877	•••	•••	34.5	
1872	•••	•••	34-4	1878	•••	•••	34.1	
1873	•••	•••	34.1					
1874		•••	34.5		Mean	•••	34.4	
1875		•••	34.0					
1876	•••	•••	34•9					

Birth rates in town and country, 1880.

505. The following table shows the births and birth rates in the metropolis, the extra-metropolitan towns, and the country districts of Victoria during 1880; also the estimated population of such divisions about the middle of that year :---

	Estimated Mean	Births, 1880.			
Districts.	Population.	Total Number.	Number per 1,000 of the Population.		
Melbourne and suburbs Towns outside Melbourne and suburbs	277,200 189,642	8,645 6,488	31·19 34·21		
Country districts	383,501	11,015	28.72		
Total	850,343	26,148	30.75		

BIRTHS IN URBAN AND COUNTRY DISTRICTS, 1880.

Birth rates in town and country.

country, 1873 to 1880.

506. The following table shows the birth rates in the same three divisions of the colony during each of the last eight years. The rates here given for extra-metropolitan towns and country districts differ somewhat from those published last year, as the errors in the population estimates, which the census disclosed, necessitated changes in the figures for previous years. It was not, however, found necessary to alter the figures for Melbourne and suburbs, as the difference between the estimated and ascertained population of the metropolitan district was not great. In the earlier years of the period named, the birth rate of the country districts was about equal to that of the metropolis, whilst the birth rate of the extra-metropolitan towns was very much higher than either. In the latter years, however, the metropolitan rate

was much above that of the country districts, and was only slightly below that of the extra-metropolitan towns.

BIRTH RATES IN URBAN AND COUNTRY DISTRICTS, 1873 TO 1880.

Year.		Melbourne and Suburbs.	Towns outside of Melbourne and Suburbs.	Country Districts.	Total of Victoria.
1873		34.36	40.18	36.32	36.71
1874		32.98	39.81	32.46	34.46
1875		33.63	38.63	31.54	33.94
1876		33.20	37.80	31.61	33.61
1877		33.09	34.21	30.30	32.17
1878		33.67	35.42	29.89	32.36
. 1879	•••	33.32	35.65	29.63	32.18
1880		31.19	34 • 21	28.72	30.75

507. The following table shows the mean population, the number of Birth rates in births, and the birth rate during 1880; also the birth rate during the tan subnine years, 1871 to 1879, in the different municipalities, &c., forming the component parts of the district of Melbourne and suburbs :---

metropolidistricts.

BIRTH RATES IN MELBOURNE AND SUBURBS, 1871 TO 1880.

		Year 1880.		Nine Years : 1871 to 1879.
Sub-districts.			ths.	Annual
	Estimated Mean Population.*	Total Number.	Number per 1,000 of the Population.	Births per 1,000 of Mean Population.
Melbourne City	64,032	1,579	24.66	27.92
Hotham Town	16,877	552	32.71	34.18
Fitzroy City	22,594	719	31.82	34.96
Collingwood City	23,439	790	33.70	36.62
Richmond Town	22,907	722	31.52	36.55
Brunswick Borough	6,054	233	38.49	38.71
Prahran City	20,639	626	30.33	32.66
Emerald Hill Town	24,760	798	32.23	31.99
Sandridge Borough	8,593	340	39.57	38.92
St. Kilda Borough	11,470	306	26.68	29.33
Brighton Borough	4,630	118	25.49	31.87
Essendon and Flemington Borough	4,867	142	29.18	39.29
Hawthorn Borough	5,816	159	27.34	35.14
Kew Borough	3,346	87	26.00	27.06
Footscray Borough	5,730	240	41.88	46.23
Williamstown Borough	8,890	304	34.20	39.48
Remainder of district	17,680	410	23 · 19	26.21
Hospitals, asylums, &c.†	3,398	519	152.74	139.48
Shipping in Hobson's Bay and river‡	1,478	1	•67	•••
Total	277,200	8,645	31.19	33.80

*Deduced from the recent census.

†The population given is that of all the public institutions, but the Lying-in Hospital is the only institution in which births occurred.

‡ Figures showing population of shipping at census of 3rd April 1881.

Birth rates in sub-districts, 1871 to 1879.

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508. It will be observed that during the nine years ended with 1879 the births in one municipality only, viz., Footscray, were above 40 per 1,000 of the population; that in six municipalities, viz., Williamstown, Essendon and Flemington, Sandridge, Brunswick, Collingwood, and Richmond, they were between 35 and 40 per 1,000; in five municipalities, viz., Fitzroy, Hotham, Prahran, Emerald Hill, and Brighton, they were between 30 and 35 per 1,000; and that in three municipalities, viz., St. Kilda, Melbourne, and Kew, they were below 30 per 1,000. The lowest rate was in "Remainder of District," viz., 26¹/₅th per 1,000, which was even lower than in the rural districts of the colony.*

Birth rates in sub-dis-

509. During 1880, the rates in all the sub-districts except Emerald tricts, 1880. Hill and Sandridge were lower than they were in the nine-year period. The sub-district with the highest birth rate was still Footscray, those with the lowest were Brighton, Kew, Melbourne City, and "Remainder of District."

510. The birth rate in London, according to the average of the ten

England and Wales during the same period. It was thus about 2 per

1,000 above the average in Melbourne and suburbs.

Ireland, during 1878, 104.6 boys were born to 100 girls.

Birth rate in London. years 1868-77, was 35.8, which was only slightly higher than that of

Births of males and females.

511. The births of males in Victoria during 1880 numbered 13,358, These numbers furnish a proportion of 104.4 those of females 12,790. boys to 100 girls. In the previous ten years 137,914 births of males and 131,799 births of females were registered, giving a proportion of 104.6 boys to 100 girls.

512. In every country in which births are registered it is found that

Births of males and more males are born than females. In England and Wales, during the females in United ten years ended with 1877, 103.9 boys were born to 100 girls; in Kingdom. Scotland, during 1878, 106.4 boys were born to 100 girls; and in

Twins and triplets.

513. Cases in which twins were born numbered 219 in 1880, but no case occurred of triplets being born. In the eleven years ended with 1880, 2,737 cases of twins and 22 cases of triplets were recorded, the total number of births in the same period having been 295,861. There were thus 293,080 confinements in the eleven years, and it follows that 1 mother in every 107 gave birth to twins, and 1 mother in every 13,322 was delivered of three children at a birth.

Illegitimate births.

514. The illegitimate children born in 1880 numbered 1,254, or 1 in every 21 births registered, a proportion which was the same as in 1879, but much higher than in any previous year. The illegitimate births in 1879 were set down as 1 in 21; in 1878 as 1 in 24; in 1877

as 1 in 26; in 1876 as 1 in 27; and in 1875 as 1 in 34. It should, however, be stated that the fact of a birth being illegitimate is not always recognizable except by a very careful examination of the registers, and it is possible that previous returns did not show the full extent to which illegitimacy prevailed, and that portion, at any rate, of the apparent increase during 1879 and 1880 may have resulted from the fact of the scrutiny having been closer than in former years.* In the last eleven years, out of 295,861 infants born, 10,624 were traced as having been born out of wedlock, which numbers furnish a proportion of 1 illegitimate child to every 28 births.

515. According to a calculation, the basis of which I have more than Women once explained, † it follows, from the number of births of legitimate children, that, approximately, 82,704 married women at the fruitful or child-bearing age were living in the colony during 1880, and from the number of births of illegitimate children that, exclusive of public prostitutes, who, as they rarely have children, are omitted from the computation, at least 4,166 single women at a similar period of life were living The total number of single women between 15 and in concubinage. 45 years of age may be estimated to have been about 95,000 during the year. It therefore follows that 1 out of every 23 of these was living immorally.

516. The following table gives a statement of the number of illegi- Illegitimacy and concutimate births and their proportion to the total number registered; also the estimated number of women living in concubinage, and their 1873 to 1880. proportion to the total number of single women at reproductive ages living in Victoria, according to the returns of the last eight years :---

			Illegitim	gitimate Births. Women Living in Concub (exclusive of Public Prost				
	Year.		Total Number.	Percentage of Total Births.	Estimated Total Number.	Number per 100 of SingleWomen between 15 and 45 Years of Age Living in Victoria.		
1873		•••	893	3.18	2,967	4.54		
1874	•••	•••	984	3.62	3,269	4.41		
1875		•••	779	2.92	2,586	3.36		
1876	•••		975	3.64	3,239	4.02		
1877	•••		1,010	3.88	3,355	3.82		
1878			1,103	4.12	3,664	4.20		
1879			1,304	4.86	4,332	4.78		
1880	•••	•••	1,254	4.80	4,166	4.39		
\mathbf{N}	leans	•••	1,038	3.89	3,447	4.19		

ILLEGITIMACY AND CONCUBINAGE, 1873 TO 1880.

* For many reasons, statistics of illegitimacy generally understate the truth. See remarks upon the subject in the Victorian Year-Book, 1877-8, paragraph 259. † See Victorian Year-Book, 1873, paragraph 286, and Victorian Year-Book, 1874, paragraph 490.

living inconcubi-

nage.

Illegitimacy in Australasian colonies. 517. Besides Victoria, the only Australasian colonies which publish statistics of illegitimacy are apparently New South Wales, Queensland, and New Zealand. According to these, illegitimacy was, over a series of years, most rife in New South Wales, next so in Victoria, next in Queensland, and least of all in New Zealand. The following table shows the percentage of illegitimate to the total births in the four colonies named during each of the eight years ended with 1879 :--

	X7		Ille	egitimate Births to eve	ry 100 Children	Born.
	Year.		Victoria.	New South Wales.	Queensland.	New Zealand
1872		•••	2.99	4.03	2.92	
1873			3.18	4.15	2.71	1.42
1874			3.62	4.22	2.76	1.30
1875	•••	•••	2.92	4 ·20	3.43	1.36
1876	•••	•••	3.64	4.08	3.21	2.23
1877	•••	•••	3.88	4.14	3.64	2.08
1878	•••		4.15	4.03	3.68	2.41
1879	•••	•••	4.86	4:51	4.31	2.30
Me	eans	•••	3.66	4.17	3.33	1.87

ILLEGITIMACY IN AU	USTRALASIAN	COLONIES,	1872 то	1879.
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Illegitimacy in United Kingdom. 518. Illegitimacy in England and Wales appears to be commoner than, and in Scotland more than twice as rife as, it is in any of the Australasian colonies named. In Ireland, on the other hand, if the figures are reliable, it is less prevalent than in any of those colonies, except New Zealand. This will be observed by comparing the following table with the previous one :---

ILLEGITIMACY IN ENGLAND, SCOTLAND, AND IRELAND, 1871 TO 1878.

	Year.	•	Illegitimate Births to every 100 Children Born.							
	t car .		England and Wales.	Scotland.	Ireland.					
1871	•••	•••	5.6	9.5	2.7					
1872	•••		5-4	9.1	2.5					
1873	•••		5.2	9.0	2.4					
1874	•••		5.0	8.7	2.3					
1875	•••	•••	4.8	8.6	2.3					
1876	•••		4.7	8.6	2.3					
1877	••••		4.7	8.4	2.4					
1878	•••		4.2	8.4	2.3					
	Means	•••	5.0	8.8	2:4					

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Vital Statistics.

519. It will be readily supposed that a larger proportion of illegitimacy megitimacy prevails in Melbourne and suburbs than in any other district of Victoria, country. and that the proportion in the country districts is the smallest of all. In 1880, in the metropolitan district about 1 birth in 13, in extra-metropolitan towns 1 birth in 22, and in country districts 1 birth in 35, was registered as illegitimate. In the previous year the proportions were 1 in 12, 1 in 24, and 1 in 37 respectively.

520. According to the registrations, births in Victoria are always most Births in numerous in the winter quarter, and next to that in the autumn quarter. ter. The proportion of births in the spring and summer quarters varies in different years, the advantage being generally slightly in favor of the former. The following are the numbers and percentage for 1880 and

			1880.	Percentage in		
Seasons.		Quarter ended o last day of-		Number of Births.	Percentage.	Ten Years: 1870 to 1879.
Summer	•••	March	с. •••	5,927	22.67	23.75
Autumn	•••	June	•••	6,786	25.95	24.94
Winter	• • • •	September	•••	7,125	27.25	27.21
Spring	•••	December	•••	6,310	24.13	24.10
aga di sana.		Year	•••	26,148	100.00	100.00

BIRTHS IN EACH QUARTER.

521. The deaths in 1880 numbered 11,652, as against 12,120 in Deaths, 1880. The decrease in the year under notice was thus 468. 1879.

522. The deaths in 1880 were less numerous than in any year of the Deaths, 1880 and former previous sexenniad, but more so than in any year prior to that period years. except 1860. It may be observed that the year in which the highest mortality occurred was 1875, when epidemics of measles and scarlatina prevailed, and the deaths numbered 15,287, or nearly a third more than in the year under review.*

523. The births in 1880 exceeded the deaths by 14,496, or 125 per Excess of births over cent., as against 121 per cent. in 1879. In the eleven years ended with deaths. 1880 the proportion was 122 per cent. The following were the births and deaths in each of those eleven years and the excess of the former

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in town and

each quar-

^{*} For the number of deaths during each year since the first settlement of Port Phillip, see Statistical Summary of Victoria (first folding sheet) ante.

over the latter. It will be noticed that the births more than doubled ingen van die der Afgen die die die die the deaths in all the years, except 1875, and 1876, when the mortality was swelled by the presence of epidemics

n de Var in Ingi≛	a suran a			· Excess of Birth	ns over Deaths.
Year.		Births.	• Deaths.		
	l e e	singui V ei -	1 Martin - 1968 (C.)	Numerical.	Centesimal.
. <u>10,2200</u> ,520	1111			A napadalare.	Per Cent.
1870	في الديني ا	27,151	10,420	16,731	161 161
1871 1903		27,382	9,918	17,464	176
,1872		27,361	10,831	16,530	153
1873	•••	28,100	11,501	16,599	144
1874	•••	26, 800	12,222	14,578	119
1875	•••	26,720	15,287	11,433	75
1876	•••	26,769	- 13,561	13,208	97
1877	•••	26,010	12,776	13,234	104
1878		26,581	12,702	13,879	109
1879		26,839	12,120	14,719	121
1880	•••	26,148	11,652	14,496	stal - 2 125
Total in 11		295,861 _	132,990	162,871	122

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Excess of births over deaths in Australasian colonies.

148.11

> 524. Of the Australasian colonies, New Zealand is the one in which over a series of years the births exceeded the deaths by the highest proportion. This is due to the high birth rate and low death rate prevailing in that colony, both of which are favored by the circumstance that an abnormally large proportion of the population, resulting from the number of immigrants introduced at the expense of the State, consists of persons at the reproductive period of life, which, being also the strongest, is that at which fewest deaths occur. The low death rate is no doubt also promoted by the salubrity of the climate of New Zealand, but still more so by the circumstance of the population being spread over the country or dispersed throughout a number of small towns, instead of being to a great extent crowded into a few large cities, as is generally the case in the other colonies. The position of Victoria in regard to the proportionate increase of births over deaths is above that of Western Australia or Tasmania, but below that of the other four colonies. The following table shows the percentage of excess of births over deaths in each of the Australasian colonies during the respective years 1873 to 1879, both inclusive. The colonies are arranged in order, that with the highest mean percentage being placed first, and that with the lowest last :---

		Excess of Births over Deaths.								
Colony.		1873.	1874.	1875.	1876.	1877.	1878.	1879.	Mean of Seven Years.	
	•	per	per	per	per	per	per	per	per	
1. New Zealand	1	cent.	cent.	cent.	cent.	cent.	cent.	cent.	cent.	
	•••	208	209	153	230	260	283	224	224	
2. South Australia	•••	170	124	84	132	167	148	177	143	
3. New South Wales		182	- 156	109	108	142	135	164	142	
4. Queensland		154	128	63	99	113	75	145	111	
5. Victoria		144	119	75	97	104	109	121	110	
6. Western Australia		94	80	61	140	111	121	138	106	
7. Tasmania		103	83	49	82	58	106	111	85	

EXCESS OF BIRTHS OVER DEATHS IN AUSTRALASIAN COLONIES, 1873 то 1879.

525. The following table shows the mean annual percentage of excess Excess of of births over deaths during a series of years in certain European deaths in countries. It will be observed that deaths bear a much larger proporcountries. tion to births in every one of those countries than they do in any of the Australasian colonies, but at the present time it cannot be ascertained how much of the difference may be due to the Australian climate being more healthy and the circumstances of the colonies more favorable to longevity, and how much to the fact that the countries named contain a larger proportion than the colonies of the young and The proportionate excess of births over deaths is highest the very old. in Scotland, next highest in England, Ireland, and Denmark; and lowest in France, where the births annually exceed the deaths by only 8 per cent.* :---

	Years over wh	nich the Average extends.	Mean Annual Excess of Births
Country.	Number.	Period.	over Deaths.
			per cent.
England and Wales	23	1853 to 1875	57
Scotland	22	1855 to 1876	59
Ireland	11	1865 to 1875	57
Donmark	26	1850 to 1875	57
Smeden	26	1850 to 1875	56
1 Anotrio	23	1853 to 1875	23
Dungaio	23	1853 to 1875	40
The Netherlands	23	1853 to 1875	36
Franco	23	1853 to 1875	8
Spain	10	1861 to 1870	25
Itoly	13	1863 to 1875	23

EXCESS OF BIRTHS OVER DEATHS IN EUROPEAN COUNTRIES.

526. In Victoria, deaths of males in 1880 numbered 6,610, and deaths Deaths of males and These numbers furnish a proportion of 76 females females. of females, 5,042. to every 100 males, as against 72 in the previous year. Females in

births over

European

the total population are in the proportion of 91 to every 100 males; therefore more males and fewer females died in both years than their relative numbers in the population might have given reason to expect.

Annual death rate.

f in

527. The following table shows the death rate of males and females, and of both sexes, during each of the past twenty years. It will be observed that in 1880 the death rate of both males and females was lower than in any previous year in the vicenniad, except 1871. It will also be noticed that the death rate in all the years, except 1861 and 1862, bore more hardly upon males than upon females :--

¥.	Estin Mean Po	nated pulation.		ber of ths.	Deaths per 1,000 of the Mean Population.			
Year.	Males.	Females.	Males.	Females.	Males.	Females.	Total.	
1861	324,988	214,836	6,124	4,398	18.84	20.47	19.49	
1862	322,916	225,164	5,900	4,180	18.27	18.56	18.39	
1863	325,680	237,280	5,646	3,856	17.34	16.25	16.88	
1864	335,272	251,178	5,202	3,685	15.51	14.67	15.15	
1865	347,083	264,135	6,158	4,303	17.74	16.29	17.11	
1866	353,941	275,097	7,016	5,270	19.82	19.16	19.53	
1867	359,642	284,634	6,613	5,120	18,39	17.99	18.21	
1868	367,752	295,340	5,865	4,202	15.95	14.23	15.18	
1869	379,396	307,806	6,221	4,409	16.40	14.32	15.47	
1870	392,159	321,036	6,114	4,306	15.59	13.41	14.61	
1871	403,319	333,686	5,845	4,073	14.49	12,21	13.46	
1872	409,081	344,117	6,308	4,523	15.42	13.14	14.38	
1873	412,597	352,914	6,565	4,936	15.91	13.99	15.02	
1874	416,725	360,931	6,994	5,228	16.78	14.48	15.72	
1875	419,779	367,558	8,563	6,724	20.4 0	18.29	19· 42	
1876	422,931	373,627	7,716	5,845	18.24	15.64	17.02	
1877	427,727	380,878	7,345	5,431	17.17	14.26	15-80	
1878	433,153	388,313	7,179	5,523	16.57	14.22	15.46	
1879	438,563	395,467	7,033	5,087	16.04	12.86	14.53	
1880	446,445	403,898	6,610	5,042	14.81	12:48	13.70	
	Mear	n of twenty	vears		16.98	15.35	16.23	

ANNUAL DEATH RATE,* 1861 TO 1880.

Note.—In 1861, 1866, and 1875, and to a certain extent in the preceding and in the succeeding years, the death rate was swelled by epidemics of measles and scarlatina.

Normal death rate.

528. However favorable may be the circumstances for prolonging life, as all must die at some time or other, it is evident that every country must have a death rate; but, as I have mentioned on former occasions,[†] it has been held by high authority that in countries in which the climate is healthy, hygiene properly attended to, and the population in a normal condition as regards age, the ordinary mortality incident to human nature would probably cause this death rate to be in the proportion of

* For total of mean population in each year, see table "Breadstuffs available for consumption," in Part IX., Production, post; for total number of deaths, see Statistical Summary (first folding sheet) at commencement of this work; or the totals may be obtained by adding the males and females together. † See Victorian Year-Book, 1875, paragraph 342, Victorian Year-Book, 1876-7, paragraph 169, and Victorian Year-Book, 1877-8, paragraph 271; also page ix of Dr. Farr's letter dated 5th February 1875, published in the Supplement to the 35th Annual Report of the Registrar-General of England. London: Eyre and Spottiswoode, 1875. about 17 per 1,000 persons living. It should, however, be borne in mind that death rates based merely upon the total population, in common with birth and marriage rates calculated upon a like basis, are not always fair tests of the state of a community. If the proportion of very young or old people is high, the death rate will be also high; but if, on the other hand, the number of persons at the middle ages is excessive, the death rate Until the compilation of the results of the census just will be low. taken is more advanced, the present condition of the people of Victoria as regards age cannot be definitely known. It will, however, be remarked that the mortality exceeded 17 per 1,000 seven times in the twenty years named in the table. In 1880 it was $3\frac{1}{3}$ deaths below that proportion, and, according to the average annual mortality of the vicenniad, it was lower than it by a fraction.

529. The following table shows the death rates of the different Death rates Australasian colonies during the eleven years ended with 1879. It will be observed that the death rate in all the colonies was exceedingly low in the last year named; also that over a series of years the average death rate of all the colonies except Queensland is below 17 per 1,000 :---

in Australasian colonies.

· .	:	Number of Deaths per 1,000 of Mean Populations.											
Year.		Victoria.	New South Wales.	Queensland	South Australia.	Western Australia.	Tasmania.	New Zealand.					
1869	•••	15.47	14.05	16.20	12.37		13.20	11.73					
lo 1870		14.61	13.27	14.59	13.94	•••	13.88	11.13					
1871		13.46	12.54	14.83	12.87		13.38	10.13					
^{2.9} 1872		14·38	14.11	14.97	$15 \cdot 33$	14.02	13.79	11.68					
ou 1873		15.02	13.84	16.06	13.48	16.24	14.52	12.67					
1874		15.72	15.12	17.98	17.05	18.74	16.21	13.02					
1875		19.42	18.09	23.80	19.45	17.88	20.00	15.92					
1876		17.02	18.11	18.82	16.28	14.18	16.54	12.66					
1877		15.80	15.28	17.29	13.99	15.70	19.17	11.47					
1878		15.46	15.88	20.41	$15 \cdot 44$	14.07	15.66	11.01					
1879	••••	14.53	14.29	14•97	14.09	14•46	15.18	12.46					
Means	•••	15.54	14.96	17.27	14.94	15.66	15.59	12.17					

DEATH RATES IN AUSTRALASIAN COLONIES, 1869 TO 1879.*

530. That like causes are at work in the various colonies to swell or High and diminish the rate of mortality appears evident from the fact that in rates coincinearly all the mortality gradually declined from 1868 to 1871, when the rate in every colony was unusually low, and in many cases the minimum of the period, but that it again increased gradually It should be mentioned that epidemics of to a high rate in 1875. measles and scarlatina prevailed in 1867 and 1875. Moreover, in looking at the increased mortality at the latter period, due principally to the

low death dent in Australasian colonies.

* For the number of deaths in the various colonies during the eight years ended with 1880, see General Summary of Australasian Statistics (third folding sheet) ante.

presence of these epidemics, it would seem that the causes referred to first appeared in Western Australia, and swept easterly over the whole continent—thus a sudden increase of mortality occurred in Western Australia in 1874, in South Australia between 1874 and 1875, in Victoria and the other colonies, except New South Wales, in 1875, extending partly into 1876, and in New South Wales in 1875 and 1876, distributed equally over the two years; and in nearly every instance the high mortality subsided in 1877 to about the average.

Order of colonies in respect to death rates.

531. The following is the order of the colonies in reference to their respective death rates in the last year shown in the table, and according to the average of the whole period of eleven years. The colony with the lowest rate is placed first, and that with the highest last. It will be noticed that Victoria occupies the fifth place in the list for 1879, and the fourth in that showing the average during eleven years :--

ORDER O	\mathbf{F}	AUSTRALASIAN	COLONIES	IN	REFERENCE	TO	. :
,		Dram	RATES.	•			
		DEATH	TALES.		• . · ·		-

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Order in 1879.	Order over a Series of Years.
1. New Zealand.	1. New Zealand.
2. South Australia.	2. South Australia.
3. New South Wales.	3. New South Wales.
4. Western Australia.	4. Victoria.
5. Victoria.	5. Tasmania.
6. Queensland.	6. Western Australia.
7. Tasmania.	7. Queensland.

Death rate in Australia and Australasia. 532. The death rate of the colonies situated upon the continent of Australia taken in combination, and the death rate of those colonies with the addition of Tasmania and New Zealand, are shown in the following table. The increased mortality during the years when epidemics prevailed and its subsequent diminution will be at once noticed :---

DEATH RATE IN AUSTRALIA AND AUSTRALASIA, 1873 TO 1879.

		-				Number of Deaths per	1,000 of Mean Population.		
		Year				Continent of Australia.	Australia with Tasmania and New Zealand.		
i de la composición Antes en composición Antes en composición de la composición de la composición de la composición de la composición Antes en composición de la composición de	1873					14.43	14.20		
14	1873	•••	•••		•••	14 43 15.73	15.36		
	1875	•••	•••	•••	• •••	19.08	18.63		
	1876			•••		17.12	16.37		
	1877	•••				15.23	14.77		
	1878					15.72	14.94		
	1879	•••	•••	•••		14.06	13.84		
		Means	•••	•••	•••	15.91	15.44		

533. The following table shows the death rate in as many British Death rates colonies outside Australasia as the particulars are available for. In British many cases the average extends only over a short period, and in few, if any, of the colonies are the conditions affecting the duration of human life similar to those prevailing in the Australasian group :---

2.02 1.1 12. ... 112 Number of 29.8 Deaths per 1,000 2768 5765 Colonies. Years. of the 0.08 Population. $\cdot:]$ 计名言 271 2.01 1.68 ()·()?. Ceylon 1867-76 21.62 Straits Settlements 2.10 1873-7 19.96 (q. e. jé :11 Hong Kong 1875 25.87 1.10 Mauritius 1871-7 28:34 Seychelles ... 187.5-7 22.40 7-89 $t \in$ 1871-5 13.21 St. Helena £•3£ 1871-5 Bermudas •01 24.07 1112 p.p.p British Guiana ... 187.1-9 34.47 ••• West Indies-Bahamas 1874-5 22.60-... Jamaica 1878 21.9 2.24 · (* * ... 1869-79 28.4 St. Lucia St. Vincent 1870-9-28.4 • • • Str. C 711 II.S Barbadoes', 23.76 1872-8 . 17 () ... 41 - 47 31 27.82 Grenada 1871-5 -16.05 **₩**•(6-11) 32.87 Antigua 1875-6 Montserrat 1874 - 520.44 ... o fi Dominica 1871-6 18:53 iere d Trinidad 1871 - 634:14 -113

534. In all the European countries of which the information is at Death rates hand, except Ireland, the mean annual death rates are much higher than countries. in any of the Australasian colonies. In Ireland the average rate is apparently the same as in Queensland; but this may perhaps not really be the case, it being an admitted fact that the registrations of Ireland are defective.* Omitting Ireland, it will be observed from the following table that in not one of the countries do the figures show an approach to so low a death rate as 17 per 1,000 in any year, except Sweden, during the three years 1871 to 1873, and only in one of these did the rate actually fall as low as 17 per 1,000; whilst in Hungary, on the other hand, the average death rate per 1,000, extending over a series of years, amounts to considerably more than twice that number :---

* See 11th Detailed Report of the Registrar-General of Ireland, page 15; also his 12th Report, page 31.

in certain

possessions.

in European

DEATH RATES IN CERTAIN BRITISH POSSESSIONS.

DEATH RATES IN EUROPEAN COUNTRIES, 1868 to 1878.

			· · · ·	Nu	mber d	f Deal	ths per	1,000	of Me	an Pop	ulatio	n.			
Years.	England and Wales.	Scotland.	Ireland.*	Denmark.	Sweden.	Austria.	Hungary.	Switzerland.	Prussia.	German Empire.	Belgium.	The Nether- lands.	France.	Spain.	Italy.
1868	21.9	21.2	15.8	19•3	21.0	29 · 3	33 · 8	.,	27'3	•••	21.7	24 ·8	24 ·0	32·6	30 • 5
1869	22:3	23·0	16.4	19•1	22.3	28 ·9	32.0	•••	2 5·9	•••	21.8	23 •0	23•5	32•6	27.7
1870	2 2·9	22.2	16.7	1 9·1	19:8	29.2	32.6	25 ·8	25 •9		23.3	25.7	28 ·3	30.1	29·8
1871	22.6	22.2	16.4	19.5	17.2	30.0	39 ·0	27.6	28.4	•••	28.5	29·4	34•8	•••	30·0•
1872	21.3	22·3	18.1	18.3	16·3	32.4	42 ·3	22.2	29 · 3	29 ·0	23.2	25.7	22 ·0	•••	30 [.] 7
1873	21.1	22•4	18·3	18.6	17-2	38.5	65·1	22.7	28 •0	2 8·2	21.5	24· 0	23·3		30 .0
1874	22.3	23.3	17.3	19.9	20.3	31.3	42.6	22· 3	25.8	26.7	20.2	22 [.] 6	21.5	•••	30.3
1875	22.8	23•4	18.5	21.0	20.2	29.7	37•2	24·1	26.4	27.6	22.7	25.4	23.1	•••	30.7
1876	21.0	21-0	17.3	19.7	19.5	29.4	35 •0	24.2	25·4	26 ·3	21.9	23·3	22.7	***	28.7
1877	20.4	20.8	17.5	18.7	18.5	31.1	36.3	23 •5	25 •5	26 [.] 6	21.1	22.0	21.7	•••	28 [.] 1
1878	21.7	21.4	18 [.] 6	18·5	18.0	31-1	•••	23.4	25•7	26 · 2	21•5	22· 8	22.6	. 	28.8
Means	21.8	22·1	17.4	19.2	19.1	31.0	39.6	24.0	26.7	27.2	22.5	24.4	24 [.] 3	31.8	29.6

Note.—The mortality of Sweden was increased by small-pox in 1874; that of Austria by cholera in 1873; that of Hungary by cholera in 1873 and 1874; that of Prussia by war in 1870 and 1871, and by cholera in 1873; that of Belgium by small-pox in 1871; that of the Netherlands by smallpox in 1871; that of France by war in 1870 and 1871.

Low European death rate in 1877 and 1878. 535. It will be observed that the death rate in 1878 was below the average in all the countries named, except Ireland* and Austria. In Denmark, Sweden, Switzerland, and the German Empire, it was even lower than in 1877, in which year the death rates generally were extremely low, and in Austria it was the same as in 1877; but in the remaining countries for which the returns are complete it was higher than in that year.

Death rate in United Kingdom. 536. The death rate of the United Kingdom, according to the Reports of the Registrar-General of England, was as follows during each of the eight years ended with 1878. It will be observed that 1877 was the year in which the death rate was lowest :--

	De	ATH RATE	IN	THE UNITED	KINGDOM	, 1871	то 18	78.
			D of	eaths per 1,000 the Population			De of t	aths per 1,000 he Population.
ţ.	1871	•••		22.6	1877	•••	•••	20.0
	1872	•••		20.9	1878	•••		21·2
	1873	· · · · · · · · · · · · · · · · · · ·		20.8	1			
	1874	•••	•••	21.6	Mean			21.2
	1875	•••	÷	22.2		• •	1	ال متحلة
	1876	•••	•••	20.5	·	**************************************		

* The registrations in Ireland are admitted to be defective.—See 11th Detailed Report of the Registrar-General of Ireland, page 15; also his 12th Report, page 31.

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Vital Statistics.

537. In every country the death rate is higher in towns than it is Death rates in the country districts. This circumstance, though no doubt partly attributable to the superior healthfulness and immunity from contagion prevailing in the latter, is also to a great extent due to the fact that hospitals and charitable institutions, which are frequented by patients from the country as well as by town residents, are generally situated in the towns; and further that outside of charitable institutions many persons die who have come from the country on the approach of serious illness for the sake of the superior nursing and medical attend-In 1880, the death rate was somewhat ance to be obtained in town. higher in Melbourne and suburbs than in the country towns, but in both it was very much higher than in the country districts. The following are the figures for 1880:-

• The second sec		Deaths, 1880.		
Districts.	Estimated Mean Population	Total Number,	Number per 1,000 of the Population.	
Melbourne and suburbs	277,200	5,184	18.70	
Towns outside Melbourne and suburbs	189,642	3,349	17.65	
Country districts	383,501	3,119	8.13	
Total	850,343	11,652	13.70	

DEATHS IN URBAN AND COUNTRY DISTRICTS, 1880.

538. The death rates of the metropolitan and extra-metropolitan Death rate towns and country districts of Victoria were as follow, during each of country, 1873 to 1880. the last eight years. The calculations have been based on estimates of population amended in accordance with the results of the census of 1881:---

DEATH RATES IN URBAN AND COUNTRY DISTRICTS, 1873 TO 1880.

5 -		Number of Deaths per 1,000 of the Estimated Population.				
Years.		Melbourne and Suburbs.	Towns outside of Melbourne and Suburbs.	Country Districts.	Total of Victoria.	
1873		19.86	18.50	·9·65	15.02	
1874		$21 \cdot 27$	20.47	9.09	15.71	
1875		$25 \cdot 82$	26.03	$11 \cdot 24$	19.42	
1876		21.84	23.00	10.42	17.02	
1877		21.18	20.07	9.86	15.80	
1878		20.12	20.21	9 ·83	15.46	
1879		19.23	18.65	9.17	14.53	
1880		18.70	17.65	8·13	13.70	

Note.-In 1875, and to a certain extent in the preceding and succeeding years, the death rate was swelled by epidemics of measles and scarlatina.

in town and country,

1880.

Victorian Year-Book, 1880-81.

death rate country.

Normalized 539. It will be noticed that the death rate in Melbourne and suburbs in town and is usually slightly higher than in the other town districts; but in all the urban districts it is invariably much above the normal 17 per 1,000 persons living, whilst in country districts it is always very considerably below that rate. In 1880, and to a less extent in the previous year, the deaths in both town and country were much below the average.

Death rates in Melbourne and suburbs.

540. The following table shows the mean population, the number of deaths, and the death rate in 1880, also the death rate during the period of nine years between 1871 and 1879, in the different municipalities, &c., forming the component parts of the district of Melbourne and suburbs. In order to render the rates of the various districts comparable as far as possible, the deaths in hospitals and similar institutions have been eliminated in the districts where they occurred, but are shown separately near the end of the table :---

DEATH RATES IN MELBOURNE AND SUBURBS, 1871 TO 1880.

e a la personamente la successimente	965115 to to	Year 1880.		Nine Years:
at it in provide		Dea	ths.	1871 to 1879.
Sub-districts.	Estimated Mean Population,	Total Number.	Number per 1,000 of the Population.*	Annual Deaths per 1,000 of Meat Population.
Melbourne City	64,032	970	15.15	16:90
Hotham Town	16,877	285	16.89	17.39
Fitzroy City State	22,594	386	17.08	18.85
Collingwood City	23,439	439	18.73	20.31
Richmond Town	22,907	351	15.32	17.74
Brunswick Borough	6,054	85	14.04	14:70
Prahran City	20,639	285	13.81	17.31
Emerald Hill Town	24,760	404	16.32	16.55
Sandridge Borough	8,593	146	16.99	17:50
St. Kilda Borough	11,470	144	12:55	14.20
Brighton Borough	4,630	64	13.82	14.02
Essendon and Flemington Borough	4,867	60	12.33	18.85
Hawthorn Borough	5,816	91	15.65	17.13
Kew Borough	3,346	29	8.67	12.21
Footscray Borough	5,730	77	13.44	17.29
Williamstown Borough	8,890	148	16.65	18.10
Remainder of district	17,680	184	10.41	12.05
	Berger Breek	- 4	-	
Hospitals, asylums, &c.†	3,398	1,032		
Shipping in Hobson's Bay and river	1,478‡	4	2.70	4.20
Total	277,200	5,184	18.70	20.61

Low death rate, 1880.

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> 541. It will be observed that in 1880 the death rate in every subdistrict of Melbourne and suburbs was below the average of the previous nine years.

> * In order to compare the death rate with density of population, see also paragraph 66 ante. † Includes the Melbourne, Alfred, Lying-in, and Children's Hospitals, the Immigrants' Home, and the Carlton Lunatic Asylum (closed in 1873)—all situated in Melbourne City; the Benevolent Asylum, which is on the boundary between Hotham Town and Melbourne City; the Metropolitan Lunatic Asylum, which is in Kew Borough; and the Yarra Bend Lunatic Asylum, which is in "Remainder of district." ‡ Figures showing the population of shipping at census of 3rd April 1881.

542. The only sub-district which had, according to the average of nine Places in 1965 years, a higher death rate than 20 per 1,000 is the low-lying and still imperfectly drained locality of Collingwood; the next highest death lowest. Fate prevailed in the neighboring city of Fitzroy and the rural suburb of Essendon and Flemington, and the next in the shipping town of Williamstown. In 1880, Collingwood and Fitzroy still maintained the highest death rates; but the rate in Essendon and Flemington was comparatively low. The lowest death rate, both during 1880 and the period of hine years, was in the shipping; the next during 1880 in Kew; the next in the portion of the district not included in any city, town, or borough; the next in Essendon and Flemington; the next in St. Kilda; the next in Footscray; and the next in Prahran and Brighton. During the period of nine years, after the shipping, the lowest death rate was in the "remainder of district"; the next in Kew; the next in Brighton; and the next in St. Kilda.

543. The death rate of the whole district, in the calculation of which sub-districts the deaths in charitable institutions are included, was a fraction under 19 per 1,000 persons living in 1880, and a fraction under 21 per 1,000 in the preceding period of nine years. During the last-named period the annual death rate was over 17 per 1,000 in all the sub-districts, except Melbourne, Emerald Hill, Brunswick, St. Kilda, Brighton, Kew, the "remainder of district," and the shipping; but during 1880 it was over 17 per 1,000 in only two sub-districts, viz., Collingwood and In considering the death rate of the individual districts, the Fitzroy. hospitals, asylums, &c., have been eliminated.

544. The average mortality of Melbourne and suburbs, taken as a Death rates whole, is lower than that of most towns in the United Kingdom. In the following list, which shows the death rate of 23 such towns, the only towns with a lower aver Portsmouth and Brighte

DEATH RATES IN TWENTY-THREE TOW	NS OF THE UNITED KINGDOM,
-second contraction 1873 to 187	7. The second s
Annúal Deaths per 1,000 of the Population.	Annual Deaths per 1,009 of the Population.
	radford 24 [.] 92 irmingham 25 [.] 02

23.22

23.40

23.94

24.28

24.34

24.74

Plymouth Edinburgh Sunderland

Norwich London

Bristol

Hull

Nottingham

Wolverhampton

...

Leicester

Sheffield

in towns of United Kingdom.

rage death ra	te than Melbourne and suburbs are	
ENTY-THREE 1873 to	Towns of the United Kingdom, 1877.	
uíal Deaths per 1,0 of the Population.	00 Annual Deaths per 1,000 of the Population.	
19.56	Bradford 24.92	
19·82 21·26	Birmingham 25 [.] 02 Oldham 25 [.] 88	
22·18 22·44	Leeds 26.02 Newcastle-on-Tyne 26.12	
22.48 22.58	Dublin 26.50 Salford 27.52	

Glasgow

Liverpool

Mean of towns named

Manchester

27.78

27.90

29.40

24.40

which death rate was highest and

with death rates over 17 per 1,000.

Deaths in each month.

545. The mortality of Victoria is usually highest in the first five months and in the last month of the year. The relative mortality of the various months fluctuates, however, in different years. According to the average of a series of years, the months in which most deaths occur appear to be January, March, April, and February in the order named, but, in the year under review, the last two of these were less fatal than the months of December and August. The number of deaths in each month of 1880, and their percentage to the total number in the year, also the percentage of the deaths in each month of the decenniad which preceded that year to the total number of deaths during the same period, will be found in the following table :--

Months.			Year	Percentage	
			Number of Deaths.	Percentage.	in Ten Years: 1870 to 1879.
January	•••		1,102	9.46	10.36
February	•••	•••	990	8.20	9.17
March	••• `	•••	1,071	9.20	10.34
April	•••	•••	996	8.55	9.90
May	•••		859	7.37	8.68
June		•••	859	7.37	7.43
July			973	8.35	7.88
August	•••		1,024	8.79	7.27
September	•••		916	7.86	6.65
October	•••		884	7.59	7.02
November			944	8.10	6.94
December	•••	•••	1,034	8.86	8.36
Year	•••		11,652	100.00	100.00

DEATHS IN EACH MONT	DEATHS	IN	EACH	MONTH.	
---------------------	--------	----	------	--------	--

Deaths at different seasons. 546. In Victoria the summer is, to invalids and young children, the most trying portion of the year. It is not astonishing, therefore, that most deaths occur during that period. Next to the summer the autumn quarter is the most fatal, probably in part owing to the circumstance that some who had become debilitated during the summer linger on for some months later. In the United Kingdom, on the contrary, the greatest mortality occurs in the winter, and the least in the summer quarter. A statement of the relative mortality of the different seasons in Victoria, according to the experience of the past year and the preceding ten years; in England and Wales, according to the experience of thirty-one years; in Scotland, according to the experience of ten years; and in Ireland, according to the experience of five years; together with the mean temperature in each quarter in Melbourne and Greenwich, will be found in the following table :--

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e en sis t	Melhourne	Greenwich,		Deaths	s per 100 at a	ll Seasons.	
Seasons.*	Victoria.	England.	Vi	ctoria.	England and Wales.	Scotland.	Ireland.
	Mean Ter in Si	mperature hade.	Year 1880.	Average of Ten Years: 1870 to 1879.		Average of Ten Years.	Average of Five Years.
	0	0 , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,					
Summer	65-2	60.2	27.08	29·59	23.24	22.34	20.21
Autumn	53.8	44.3	22.57	24.45	24.65	24.71	23.45
Winter	50.2	40.0	25.41	21.55	27·49	27.95	30.19
Spring	60.3	52.8	24.94	24.41	24 [.] 62	25.00	26 [.] 15
Year	57.6	49.4	100.00	100.00	100.00	100.00	100.00

RELATIVE MORTALITY OF EACH QUARTER IN VICTORIA, ENGLAND, SCOTLAND, AND IRELAND.

547. The following table shows the number and percentage at various Deaths at ages of the deaths registered in Victoria during the year 1880. It will 1880. be noticed that more than two-fifths of the males who died were under 15 years, and nearly two-fifths were over 45 years of age; also that of the females nearly half were under 15 years, and more than a fourth were between 15 and 45 years of age :--

A 707	Number o	of Deaths at (1880.	each Age,	Percentage of Deaths at each Age.			
Ages.	Males.	Females.	Total.	Males.	Females.	Total.	
			,		17.85		
Under 5 years	1 - 7	2,105	4,521	36.55	41.75	38.80	
*5 years to 10 years		192	401	3.16	3.83	3.44	
10 " 15 "	130	118	248	1.97	2.34	2.13	
15 " 25 "	376	411	787	5.69	8.12	6.22	
25 " 35 "	374	395	769	5.66	7.83	6.60	
35 " 45 "	529	468	997	8.00	9.28	8.56	
15 " 55 "	909	452	1,361	13.75	8.96	11.68	
55 " 65 "	782	398	1,180	11.83	7.89	10.13	
55 ,, 75 ,,	549	273	822	8.31	5•41	7.05	
75 years and upwards	336	230	566	5.08	4.26	4.86	
Total	6,610	5,042	11,652	100.00	100.00	100.00	

DEATHS AT EACH AGE, 1880.

548. The death rate at every period of life in Victoria, according to Death rate the average of the ten years which intervened between the censuses of 1861 and 1871, is less than in England and Wales. In England and

at different ages in Victoria and England.

each age,

^{*} The summer, autumn, winter, and spring seasons in Victoria approximate to the quarters ending on the last day of March, June, September, and December respectively; and in the United Kingdom to those ending on the last day of September, December, March, and June respectively.

Wales the death rate of males exceeds that of females at all periods except those between 10 and 20, when the latter is greater, and between 20 and 35, when both are about equal; in Victoria the death rate of females is higher than of males between the ages of 20 and 35, only slightly lower between 10 and 15, but much lower at other periods :---

MORTALITY PER 1,000 LIVING AT DIFFERENT AGES IN VICTORIA AND ENGLAND.

1-4 ¹				•	Number	r of Deaths	to every 1,00 h Age.	0 Living,
					Vic	toria.	 I	nd Wales.
	Tanan Internet	Ages.		and the second second	Average o 1861 t	f 10 Years. to 1871.	Average o 1848 t	f 25 Years. o 1872.
<u>-</u>				-	Males.	Females.	Males.	Females.
All ages	•••	•• •	11 2 2 1 1. 	. y.y.*.	16.68	16.13	23.5	21•4
				مصيبي مشرور في مراجع				
Under 5 y	years		•••		55.08	49.66	72.8	63-1
		 rs	•••	•••	55·08 7·52	49.66 6.95	72·8 8·5	63·1 8·2
5 years t	to 10 year $\frac{15}{15}$	rs	•••	•••		1	1	8.2
5 years 1 10 ,,	to 10 year 15 "	rs	•••	(1) 10 10 10	7.52	6.95	8.5	8.2
5 years 1 10 ,, 15 ,,	to 10 year 15 " 20 "	, , , , , , , , , , , , , , , , , , ,	•••	•••	7·52 3·27	6·95 3·25	8·5 4·7	8·2 4·8
5 years 1 10 ,, 15 ,, 20 ,, 25	to 10 year 15 " 20 " 25 "	••• •••	•••• •••• •••• •••• ••••	•••	7·52 3·27 4·22	6·95 3·25 3·65	8·5 4·7 6·5	8·2 4·8 7-0
5 years 1 10 ,, 15 ,, 20 ,, 25 ,,	to 10 year 15 ,, 20 ,, 25 ,, 35 ,,	· • • •		•••	7·52 3·27 4·22 5·50	6·95 3·25 3·65 5·89	8·5 4·7 6·5 8·8	8·2 4·8 7·0 8·7
5 years 1 10 ,, 15 ,, 20 ,, 25 ,, 35 ,, 45	to 10 year 15 ", 20 ", 25 ", 35 ", 45 ",	· • • • • • • • •		••• ••• •••	7·52 3·27 4·22 5·50 7·85	6.95 3.25 3.65 5.89 8.28	8·5 4·7 6:5 8·8 9·9	8·2 4·8 7·0 8·7 9·9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	to 10 year 15 ", 20 ", 25 ", 35 ", 45 ", 55 ",	· · · · · · · · · · · · · · · · · · ·		••••	7·52 3·27 4·22 5·50 7·85 12·09	6.95 3.25 3.65 5.89 8.28 11.12	8·5 4·7 6·5 8·8 9·9 13·3	8·2 4·8 7·0 8·7 9:9 12·1
5 years 1 10 " 15 " 20 " 25 " 35 " 45 " 55 " 65	to 10 year 15 ", 20 ", 25 ", 35 ", 45 ", 55 ", 65 ", 75	· · · · · · · · · · · · · · · · · · ·		•••• ••• 3•• •••	7.52 3.27 4.22 5.50 7.85 12.09 17.52	6.95 3.25 3.65 5.89 8.28 11.12 13.20	8.5 4.7 6.5 8.8 9.9 13.3 18.6	8·2 4·8 7·0 8·7 9·9 12·1 15·6
5 years t 10 " 15 " 20 " 25 " 35 " 45 " 55 "	to 10 yean 15 ", 20 ", 25 ", 35 ", 45 ", 55 ", 65 ", 75 ",	· · · · · · · · · · · · · · · · · · · ·		•••• ••• ••• •••	7.52 3.27 4.22 5.50 7.85 12.09 17.52 29.71	6.95 3.25 3.65 5.89 8.28 11.12 13.20 21.98	8.5 4.7 6.5 8.8 9.9 13.3 18.6 31.0	8·2 4·8 7·0 8·7 9:9 12·1 15·6 28·2

Deaths of octogenarians. 549. The persons who died at the age of 80 or upwards numbered 262 in 1880, as against 245 in 1879, 217 in 1878, and 216 in 1877. Those in the year under review comprised 156 males and 106 females. Ten males and 10 females had passed the age of 90, 1 male had reached, and 1 male had passed, the age of 100. The following are the exact ages recorded :---

NUMBER DYING AGED 80 OR UPWARDS, 1880	NUMBER	DYING	Aged	80	OR	UPWARDS,	1880.
---------------------------------------	--------	-------	------	----	----	----------	-------

Years of Age.	Males.	Females.	Years of Age.	Males.	Females.	Years of Age.	Males.	Females.
80	41	20	88	11	8	97	2	1
81	16	9	89	2	2	98	•••	1
82	12	19	90	6	3	100	1	•••
83	16	5	91	•••	1	105	1 -	
84	14	10	92	1	1			· · · · · ·
85	11	9	93	3	2			
86	9	7.	94	1	2	Total	156	106
87	7	5	95	2	1			

* The figures in this line relating to England and Wales apply to males and females at from 75 to 85 only. The Victorian returns apply to all over 75.

. 12-0.3 Vital Statistics.

550. In respect to 127 of these persons riviz, 71 males and 56 females Causes of death of oc--no other cause of death was set down than old age. Of actual togenarians. complaints, the most common were affections of the lungs and of the brain. The number of deaths set down to each cause was as follows :---

./ Like 1. 17 CAUSES OF DEATH OF PERSONS AGED 80 OR UPWARDS, 1880.

Erysipelas Carbuncle Dysentery and diarrhœa Cholera Bheumatism Venereal diseases Gout Dropsy	Males. 1 7 1 2 1 6	Females, 1 4 1 2 4	Heart diseasesMales.Females.Hung diseases85Lung diseases2614Stomach diseases33Kidney diseases3Skin diseases1Old age51Accidents51Suicide1
Cancer	4	1	Unspecified 1
Phthisis Brain diseases	 15	1	Total 156 106
	10	12	

551. The death rate of infants in 1880 was lower than in the three Infantile preceding years, and was also below the average. The total number 1880. who died under 1 year of age was 3,105, and as the births numbered 26,148, it follows that 1 infant died to every 8 births, or 11.86 infants to every 100 births. In the eleven years 1869 to 1879 the proportion of infants dying before completing their first year was 12.18 to every 100 births.

552. I have often pointed out that, in proportion to the number of Infantile infants born, the number who die before completing one year of life is Australasian greater in South Australia* than in any of the other Australasian This proportion in that colony, in the last year of which the colonies. records are at hand (1879), was below the average, but was still above that in any of the other colonies. The infantile death rate, calculated in a similar manner, was also below the average in Victoria and Queensland, but was above it in New South Wales, Tasmania, and New Zealand, as will be seen by the following table, which gives the number of births, the number of deaths of infants under one year, and the proportion of the latter to the former in each of the colonies of the group, except Western Australia (which does not publish any statement of the number of infants who die), for each of the eleven years ended with 1879. All the calculations were made in the office of the Government Statist, Melbourne :----

mortality in colonies.

^{*} The high infantile death rate in South Australia was first pointed out in a paper, by the present writer, read before the Adelaide Philosophical Society (now the Royal Society of South Australia) on the 19th March 1878. Up to that date the fact seems to have been entirely unsuspected, and its announcement caused considerable discussion, together with some alarm, in that colony.

-			at under of Age.		Deaths a 1 Year			Deaths 1 Year	at under of Age.
Year.	Births.	Total Number.	Number to 100 Births.	Births.	Total Number.	Number to 100 Births.	Births.	Total Number	Number to 100 Births,
	r 1	TICTORIA	•	New S	отн W	ALES.	QU.	EENSLAI	ND.
1869 ·	26,040	3,284	12.61	19,243	1,858	9.66	4,654	528	11.35
1870	27,151	3,203	11.80	19,648	1,867	9.50	4,905	526	10.72
1871	27,382	3,114	11.37	20,143	1,812	9.00	5,205	516	9.91
1872	27,361	3,334	12.19	20,250	2,116	10.45	5,265	578	10.98
1873	28,100	3,181	11.32	21,444	1,985	9.26	5,720	701	12-26
1874	26,800	3,341	12.47	22,178	2,428	10.95	6,383	776	12.16
1875	26,720	3,811	14.26	22,528	2,695	11.96	6,706	1,025	15.28
1876	26,769	2,980	11.13	23,298	2,629	11.28	6,903	994	14.40
1877	26,010	3,299	12.68	23,851	2,785	11.68	7,169	1,058	14.76
1878	26,581	3,262	12.27	25,328	3,126	12.34	7,397	1,234	16.68
1879	26,839	3,219	11.99	26,933	2,886	10.72	7,870	917	11.65
Sums and means	295,753	36,028	12.18	244,844	26,187	10.70	68,177	8,853	12.99
	South	I AUSTR	ALIA.		ASMANIA	•	New	ZEALA	ND.
1869	6,976	911	13.06	2,859	291	10.18	9,718	957	9.85
1870	7,021	1,031	14.68	3,054	298	9.76	10,277	956	9.30
1871	7,082	961	13.57	3,053	260	8·52	10,592	882	8.33
1872	7,105	1,145	16.12	3,010	306	10.17	10,795	1,074	9.95
1873	7,107	990	13.93	3,048	266	8.73	11,222	1,213	10.81
1874	7,696	1,319	17.13	3,097	321	10.36	12,844	1,394	10.85
1875	7,408	1,343	18.13	3,105	407	13.11	14,438	1,816	12.58
1876	8,224	1,228	14.93	3,149	286	9.08	16,168	1,673	10.35
1877	8,640	1,212	14.03	3,211	365	11.37	16,856	1,527	9.06
1878	9,282	1,466	15 79	3,502	375	10.71	17,770	1,486	8·36
1879	9,902	1,217	12.29	3,564	384	10.77	18,070	1,941	10.74
${ {and} \atop {means} } $	86,443	12,823	14.83	34,652	3,559	10.27	148,750	14,919	10.03

INFANTILE MORTALITY IN AUSTRALASIAN COLONIES.

Order of colonies in respect to infantile mortality. 553. The colonies named in the table stand in the following order in regard to the death rate of infants—the colony with the lowest average death rate being placed first, and the one with the highest last. The first three colonies have nearly the same average rates, as also have the fourth and fifth, whilst the rate in South Australia is much the highest :—

ORDER OF COLONIES IN REFERENCE TO INFANTILE MORTALITY. 1. New Zealand. 2. Tasmania. 3. New South Wales. 4. Victoria. 5. Queensland. 6. South Australia.

∑nfantile mortality in United Kingdom. 554. In England and Wales the infantile mortality, although greater than in any of the colonies, is only slightly higher than in South Australia, deaths at under 1 year of age having occurred during the seven years 1870 to 1876 in the proportion of 15.3 to every 100 births. In Scotland, the infantile death rate, during the four years 1870 to 1873, was a

Vital Statistics.

fraction higher than that in Victoria, being in the proportion of 12.55 In Ireland, during the three years 1875 to 1877, to every 100 births. the returns show only 9.5 deaths of infants to 100 births, but the registrations of Ireland are admittedly so defective that but little reliance can be placed on calculations based thereon.

555. The infantile mortality of large towns is naturally always Infantile greater than that in country districts. Thus the deaths at under 1 vear of age in Melbourne and suburbs during the eight years ended with 1880 averaged nearly 17 per 100 births, whilst in the extra-metropolitan districts of Victoria the mortality of infants at the same period of life averaged only $10\frac{1}{6}$ per 100 births. The following table shows the death rate of infants in the metropolis and in the other districts of the colony during each of the eight years named :-

INFANTILE MORTALITY IN AND OUTSIDE OF MELBOURNE AND SUBURBS, 1873 TO 1880.

			ınder 1 Year Age.		Deaths at under 1 Year of Age.			
Year.	Births.	Total Number.Number to 100 Births.		Births.	Total Number.	Number to 100 Births.		
Alter and the second	Mell	bourne and Sul	ourbs.	Victoria, outsi	de Melbourne and Suburbs			
1873	8,007	1,277	15.95	20,093	1,904	9.48		
1874	7,946	1,480	18.63	18,854	1,861	9.87		
1875	8,227	1,546	18.79	18,493	2,265	12.25		
1876	8,202	1,339	16.33	18,567	1,641	8.84		
1877	8,295	1,407	16.96	17,715	1,892	10.68		
1878	8,636	1,297	15.02	17,903	1,965	10.98		
1879	8,829	1,467	16.61	18,010	1,752	9.73		
1880	8,645	1,439	16.65	17,503	1,666	9.52		
Sums and } means	66,787	11,252	16.85	147,138	14,946	10.16		

556. As compared with the births, the infantile mortality of Mel-Infantile bourne and suburbs is, on the average, greater than that of Portsmouth, Brighton, Plymouth, London, or Bristol, but is less than that of fifteen other English towns of which particulars are available. The following are the towns in question, arranged in order according to the infantile death rate prevailing within their respective limits; the town with the lowest death rate being placed first, and that with the highest last. \mathbf{It} is a remarkable fact that a low infantile death rate prevails in London, whilst that in Liverpool is higher than in any other large town in England :---

241

mortality in

Melbourne and

country.

mortality in English

towns.

Q

INFANTILE MORTALITY IN TWENTY TOWNS OF ENGLAND, 1870 TO 1877

Deaths under	1 Year of Deaths under 1 Year of
Age to 100	Births. Age to 100 Births.
Portsmouth 14.	4 Newcastle-on-Tyne 18.4
Brighton 15.	9 Nottingham 18.6
London 15.	9 Salford 18.6
Plymouth 16.	0 Norwich 18.8
Bristol 16.	2 Manchester 19.2
Sunderland 16.	8 Bradford 19.2
Wolverhampton 16:	9 Leeds 19.6
Birmingham 17.	7 Leicester 22.1
Hull 17.	7 Liverpool 22.5
Sheffield 17.	9
Oldham 18.	Mean of towns named 17.4

Deaths of infants in Lying-in Hospital.

-194 <u>- 1</u>-1 geilutte.

> 557. In the Lying-in Hospital, Melbourne, 532 children were born alive during 1880, and of these, 30, or over $5\frac{1}{2}$ per cent., died before leaving the institution. In 1879, 8 per cent., in 1878, $6\frac{1}{2}$ per cent., in 1877, 7 per cent., and in 1876 and 1875, 9 per cent., of the infants born in the Lying-in Hospital died therein. It may be pointed out, however, that in consequence of the bad class of cases which come to maternity hospitals for treatment, the infants who die in such institutions, in proportion to the numbers born, are, all over the world, in excess of a similar proportion outside.

Deaths of Chinese and Aborigines.

Ages of

558. The deaths of Chinese recorded in 1880 amounted to 134, and those of Aborigines to 26. The former furnishes a proportion of 11.05 and the latter of 33.33 to every 1,000 of their numbers.* At the same time the proportion of deaths of all races to every 1,000 of the population was 13.70.

559. With the exception of 10 half-caste children, all the Chinese who Chinese and died during the year were adults, as also were all the Aborigines, the Aborigines. youngest being over 15 years of age.

Average age at death.

560. The average age at death in 1880 was 28.39 years, or 28 years and 5 months. For males the average age was 30.72 years, or 30 years and 9 months, and for females, 25.35 years, or 25 years and 4 months. The average age at which both males and females die in Victoria is becoming more advanced from year to year. This will be seen by the following figures :---

						Males.		Females.
								—
						Years.		Years.
	23 ye	ars—18	52 to 1875	•••		21.70	•••	15.01
	Year	1875		•••	•••	$24 \cdot 28$		18.23
	>>	1876	•••		•••	26 ·81	•••	21.84
	>>	1877	•••	•••	•••	28.60	•••	23.06
•	"	1878		•••	•••	29.54	•••	$23 \cdot 24$
	32	1879	•••	•••		30.65		24.71
	>>	1880	•••	•••	•••	30.72	•••	25.35

AVERAGE AGE AT DEATH IN VICTORIA.

* On the 3rd April 1881 the Chinese numbered 12,132; Aborigines, 780.

561. The causes of death in Victoria, as in the United Kingdom, Classification of causes of are arranged in classes and orders, according to the system proposed by death. Dr. William Farr, F.R.S., then of the General Register Office, London, in conjunction with Dr. Marc d'Espine, and first made public by the former in his report, dated 15th February 1856, to the International Statistical Congress held in Paris in 1855-6.

562. A Nosological Index was compiled by the present writer some Nosological years since, under the sanction of the then Registrar-General, Mr. W. H. Archer, to be used in connection with this classification in order to facilitate the bringing of all the circumstances resulting in death under one or other of the heads in the list, also for the guidance of deputy registrars in receiving, and of medical men in supplying, information respecting the causes of death, and of officers of charitable and other public institutions in preparing statistical tables of the deaths and sickness occurring therein.

563. Since the introduction of this system into Victoria in 1861, it victorian has been adopted in all the Australasian colonies, and, as a consequence, throughout the Nosological Index referred to has also come into use throughout the group.*

564. The following table shows the causes of death in classified causes of death classiarrangement; the total number, and the number of Chinese and fied. Aborigines who died from each cause during 1880, also the total number who died from each cause during the twenty-six years and a half ended with 1879 :---

			Nu	mber o	f Deaths.	
		Causes of Death.	26 1		Year 1880).
Class.	Order.		Years: 1853–1879	Total. †	Chinese.	Abori- gines.
<u>р</u>			274,250 272,613			26 25
Ι.	••••	CLASSES. ZYMOTIC DISEASES :—Zymotici ($\zeta i \mu \eta$, leaven). Diseases that are either epidemic, endemic, or contagious, induced by some specific body, or by the want of, or by the bad quality of food	83,638	2,424	9	1
ÍÍ.	•••	CONSTITUTIONAL DISEASES: — Cachectici (καχεξία, bad habit of body). Sporadic diseases; affecting several organs in which new morbid products are often deposited; sometimes hereditary	36,091	2,027	39	13

CAUSES OF DEATH IN CLASSIFIED ARRANGEMENT. (261 Years: 1853 to 1879; and Year 1880.)

A copy of this Nosological Index was appended to the Victorian Year-Book, 1877-8, pp. 303 to 335.

† The Chinese and Aborigines are included in this column.

Index.

index used

Australasia.

CAUSES OF DEATH IN CLASSIFIED ARRANGEMENT-continued.

 $(26\frac{1}{2}$ Years: 1853 to 1879; and Year 1880.)

			Nu	ımber o	f Deaths.	
			26]		Year 1880).
Class.	Order.	Causes of Death.	Years : 1853–1879	Total. *	Chinese.	Abori- gines.
		CLASSES—continued.				
. III.	•••	LOCAL DISEASES: — Monorganici (μόνος, alone, without others; ὄργανον, organ). Sporadic diseases, in which the functions of particular organs or systems are disturbed or obliterated, with or without inflam- mation	91,888	4,729	59	7
I ▼.		DEVELOPMENTAL DISEASES :Metamorphici (μεταμόρφωσις, change of form). Special diseases, the incidental result of the formative, reproductive, and nutritive processes	38,547	1,616	7	2
ν.	•••	VIOLENT DISEASES OR DEATHS:—Thanatici ($\theta \dot{\alpha} \nu \alpha \tau o \iota$, violent deaths). Diseases which are the evident and direct results of physical or chemical forces, acting either by the will of the sufferer, of other persons, or accidentally	22,449	818	18	2
		ORDERS.				
I.	1	Miasmatic diseases: — Miasmatici (μίασμα, stain; defilement)	76,862	2,104	5	1
	2	Enthetic diseases: — Enthetici ($\tilde{\epsilon}\nu\theta\epsilon\tau$ oc, put in; implanted)	716	49	2	
	3	Dietic diseases :Dietici (δίαιτα, way of life; diet)	4,524	198		•••
II.	4	Parasitic diseases — Parasitici ($\pi a \rho \dot{a} \sigma i \tau \sigma c$, parasite)	1,536 7,411	73	1 13	
11.	1 2	Diathetic diseases:—Diathetici ($\delta i \acute{a} \theta \epsilon \sigma \iota \varsigma$, con- dition; diathesis) Tubercular diseases:— Phthisisici ($\phi \theta i \sigma \iota \varsigma$,	28,680	533 1,494	26	13
III.	1	wasting away) Brain diseases :—Cephalici (κεφαλή, head)	29,435	1,308	9	
	2	Heart diseases : Cardiaci (καρδία, heart)	12,477	709	17	
	3	Lung diseases :—Pneumonici ($\pi \nu \epsilon \dot{\nu} \mu \omega \nu$, lung)	25,894	1,498	15	4
	4	Bowel diseases :- Enterici (ἕντερον, intestine)	19,404	916	10	2
	5	Kidney diseases :—Nephritici ($\nu \epsilon \phi \rho \delta \varsigma$, kidney)	2,982	233	5	1
	6	Gennetic diseases :- Aidoici (aidoia, pudenda)	474	17	•••	
	7	Bone and muscle diseases:—Myostici ($\mu \tilde{v}_{\mathcal{G}}$, muscle; $\delta \sigma \tau \epsilon \sigma \nu$, bone)	647	29	1	
	8	Skin diseases :Chrotici (χρώς, skin)	575	19	2	•••
IV.	1	Developmental diseases of children :Paidiaci (παιδία, youth)	12,973	465	•••	•••
	2	Developmental diseases of women:-Gyniaci (γυνή, woman)	2,709	115		•••
	3	Developmental diseases of old people:— Geratici ($\gamma \tilde{\eta} \rho \alpha \varsigma$, old age)	3,906	343	1	1

* The Chinese and Aborigines are included in this column.

Vital Statistics.

CAUSES OF DEATH IN CLASSIFIED ARRANGEMENT-continued. (26¹/₂ Years: 1853 to 1879; and Year 1880.)

Class.	Order.	Causes of			1			Number of Deaths.				
	Orde	Causes of Death.		26]_	Year 1880.							
IV.					Years : 1853–1879 	Total. *	Chinese.	Abori- gines.				
IV.		Orders-	continued.									
1	4	Diseases of nutrition: atrophy)	-Atrophici (å $ au$	ροφία,	18,959	693	. 6	1				
V.	1	Accident :- Tychici (70)	(η, chance)	•••• 1-4 N	20,238	680	11	2				
a •	2 3	Battle :—Polemici ($\pi \delta \lambda$ Homicide :—Androphon	$ici(\dot{\alpha}\nu\dot{\eta}\rho, man;\phi)$	nt) ονεύω,	 474	19	 2	•••				
9 • • •	4	I kill) Suicide :—Autophonici	(aὐτὸς, self; φοι	νεύω, Ι	1,665	118	5	•••				
	5	kill) Execution : — Demioti	ci (δημιώτης, ε	execu-	72	1		•••				
		tioner)		· · · ·								
		DISEAS	ES, ETC.	• •								
.I.	1	Small-pox	••••		21	•••	•••	•••				
* • •		Chicken-pox Measles	•••	· •••	40 3,847	$\frac{1}{252}$	•••	•••				
		Scarlatina	•••	•••	8,684	26		•••				
* • •		Diphtheria	•••	•••	7,834	198	•••	•••				
·· ·		Quinsy	••• •••		607	4		•••				
a * *		Croup	•••	•••	3,979	†156	•••	•••				
·		Whooping-cough	•••	•••	4,298	179	1	•••				
• • •		Typhoid fever, &c.	•••	•••	11,046	297	2	•••				
		Erysipelas Metria	••• •	, 	1,029 691	36 20	•••	•••				
5 * * 7		Carbuncle, boil, &c.	•••	•••	63	20	•••	•••				
		Influenza, coryza, catar		•••	871	22	1	•••				
		Dysentery			12,386	122	-					
		Diarrhœa	•••	•••	17,714	604	•••	1				
		Cholera	•••	•••	1,236	54		•••				
• • •		Ague	•••	•••	93	4	•••					
		Remittent fever	•••	•••	686	9		•••				
Sec.		Rheumatism		•••	1,301	81	1	•••				
8 (r 6		Miasmatic diseases not	classed		436 555	32- 39	1	•••				
1.1	2	Syphilis Gonorrhœa, stricture of	the urethra	•••	555 159	39 10	1	•••				
		Glanders		•••	2	•••	•••	•••				
	3	Privation	••• •••		422	11	1	•••				
		Want of breast-milk	•••	•••	2,047	113		•••				
		Purpura and scurvy	•••		276	9	•••	•••				
		Alcoholism	•••	•••	1,751	64	•••	•••				
		Other dietic diseases	•••	•••	28	l	•••	•••				
	4	Thrush	•••	•••	961 50	23 2	•••	•••				
		Worms, &c	•••	•••	59 496	2 48	 1	•••				
* · •		Hydatids Other parasitic diseases	•••	••••	490 20	40	1 •••	•••				
II.	1	Gout		•••	166	13	•••	••••				
وهم		Dropsy	•••		2,007	† 78	2	•••				
		Cancer	•••	•••	4,233	383	11	•••				

* The Chinese and Aborigines are included in this column. † Including 40 cases of "diphtheritic croup." ‡ Including 7 cases of beriberi, all Javanese sailors.

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CAUSES OF DEATH IN CLASSIFIED ARRANGEMENT—continued, $(26\frac{1}{2}$ Years: 1853 to 1879; and Year 1880.)

DISEASES, ETC.—continued. II. 1 Tumor 387 41 Polypus 9 2 Mortification 374 16 Other diathetic diseases 169 Tabes mesenterica 1002 33 Phithisis 20,693 1,175 25 Hydrocephalus 4,454 254 Apoplexy 4,454 254 Apoplexy Insanity† Chorea Insanity† Chorea Other diseases of the nervous sys		.:	No al <u>Contecta a</u> d	N	umber o	of Deaths	•
II. 1 Tumor 387 41 41 Polypus 387 41 Noma 387 41 Noma Mortification	•		Courses of Death	26]		Year 1880).
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Class	Order	Causes of Death.		Total.	Chinese.	Abori- gines.
Polypus 9 2 Noma 66 Mortification 66 Other diathetic diseases 169 Tabes mesenterica 1,002 3 Phthisis 4,067 175 1 Other tubercular diseases 4,464 264 2 Paralysis 2,478 182 Insanity † 2,428 182 Insanity † Chorea Chorea			DISEASES, ETC.—continued.				
Polypus 9 2 Noma 66 Mortification 66 Other diathetic diseases 169 Tabes mesenterica 1,002 3 Phthisis 4,067 175 1 Other tubercular diseases 4,464 264 2 Paralysis 2,478 182 Insanity † 2,428 182 Insanity † Chorea Chorea	II.	1	Tumor	387	41		2/2
Noma				1	1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	No.,		Noma	66.			
2 Scrofula 1,002 32 Tabes mesenterica 2,176 36 Phthisis 20,063 1,175 25 Hydrocephalus 4,067 175 1 Other tubercular diseases 4,454 254 Apoplexy 4,454 254 Apoplexy 4,439 254 2 Faralysis 2,428 182 Chorea 2,602 257 Chorea Chorea .			Mortification	374	16	1	
Tabes mesenterica $2,176'$ -:86 Phthisis $20,693$ 1175' 25 HH. Other tubercular diseases $4,067$ 175' 1 Other tubercular diseases $4,067$ 175' 1 Other tubercular diseases $4,067$ 175' 1 Apoplexy $4,464$ 254 Paralysis $2,428$ 182 Insanity † $2,428$ 182 Epilepsy $2,428$ 182 Other diseases of the nervous system $1,093$ 69 602 20' Other diseases of the circulatory system $1,0307$ 585' 14 143 Laryngitis 1474 $.72$ 1483 Bronchitis $8,158$ 578' 3 Pleurisy $1,474$ $.72$ 1 Pneumonia $1,474$ $.72$			Other diathetic diseases	169 -		nn Ti	·
Phthisis 20,693 1,175 25 Hydrocephalus 4,067 175 1 Other tubercular diseases 4,064 175 1 Other tubercular diseases 742 26 Apoplexy 4,454 254 Apoplexy 2,428 182 Insanity † 255 Chorea 43 Chorea. Other diseases of the enervous system		2			1	1	
Hydrocephalus $4,067$ 175 1 Other tubercular diseases 742 26 Apoplexy $4,454$ 254 2 Paralysis $2,428$ 182 Insanity \dagger $2,428$ 182 Chorea $2,428$ 182 Epilepsy 43 2 2 Other diseases of the nervous system $6,621$ 290 7 Other diseases of the circulatory system $1,033$ 585 14 Aneurism $1,463$ 84 2 Other diseases of the circulatory system $10,307$ 585 14 Bronchitis $8,158$ 578 3 Pleurisy $10,343$ 530 10 Congestion of the lungs, pulmonary apoplexy $2,408$ 213 Asthma $2,559$ 147 1 Enteritis $2,5$	• • •	Ì			1	1	1
III. 0 0 0 1 26 1 Cephalitis 4,464 254 Apoplexy 4,939 254 2 Paralysis 4,939 254 2 Paralysis 4,939 254 2 Paralysis Chorea						1	11
HI. 1 Cephalitis 4,454 254 Apoplexy 4,939 254 2 Paralysis 2,428 182 Insanity † 255 Chorea 43 2 Chorea 9,602 257 Other diseases of the nervous system 6,621 290 7 2 Pericarditis Manusitis 3 Laryngitis 4 Gastritis 9 Penicarditis <td< td=""><td></td><td></td><td></td><td></td><td></td><td>1 - L I - /</td><td>1</td></td<>						1 - L I - /	1
Apoplexy 4,939 254 2 Paralysis 2,428 182 Insanity 2,428 182 Chorea 2,428 182 Epilepsy Other diseases of the nervous system Other diseases of the circulatory system Bronchitis Bronchitis Astıma Astıma Astıma Yeitis Bronchitis Astıma <	TTT				1	••••	•••
Paralysis 2,428 182 Insanity † 255 Chorea 43 2 Chorea Epilepsy Other diseases of the nervous system .	111.	1	▲ · · · · · · · · · · · · · · · · · · ·		1		
Insanity † 255 Chorea Epilepsy Convulsions Other diseases of the nervous system Aneurism Other diseases of the circulatory system Bronchitis <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td></td>					1	2	
Chorea 43 $+2$ Epilepsy $1,093$ 69 Convulsions $9,602$ 257 Other diseases of the nervous system $6,621$ 290 7 Pericarditis 707 40 1 Aneurism 707 40 1 Aneurism $8,621$ 290 7 Other diseases of the circulatory system $1,463$ 84 21 Bronchitis $8,558$ 578 3 Pleurisy $1,843$ 530 10 Congestion of the lungs, pulmonary apoplexy $2,408$ 213 Asthma $1,478$ 42 Gastritis $1,478$ 42 Laryngitis $1,478$ 42						•••	
Epilepsy 1,093 69 Convulsions 9,602 257 Other diseases of the nervous system 6,621 290 7 2 Pericarditis 77 40 1 Aneurism 77 40 1 Aneurism 78 3 Iaryngitis 857 24 Bronchitis 8158 578 3 Pleurisy 8,158 578 3 Pleurisy Astima							•
Convulsions 9,602 257 Other diseases of the nervous system 2 Pericarditis 2 Pericarditis 2 Pericarditis Aneurism 3 Laryngitis 857 24 Bronchitis 8158 578 3 Pleurisy 1.474 Congestion of the lungs, pulmonary apoplexy 2,408 213 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>•••</td> <td></td>						•••	
0 Other diseases of the nervous system <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>••••</td> <td> </td>					1	••••	
2 Pericarditis		'			1	7	
Aneurism 1,463 84 2 Other diseases of the circulatory system $10,307$ 585 14 Laryngitis 857 24 Bronchitis 8158 578 3 Pleurisy 8174 724 1 Pneumonia 8174 724 1 Other diseases of the lungs, pulmonary apoplexy $2,408$ 213 $$ Asthma 676 39 1 Other diseases of the respiratory system $$ $1,478$ 42 $$ Gastritis $$ $4,933$ 183 3 Peritonitis $$ $4,933$ 183 3 Peritonitis $$ 424 12 1 Ulceration of intestines 383 22 Ileus		2			1	1	
Other diseases of the circulatory system 10,307 585 14 3 Laryngitis \dots 857 24 \dots Bronchitis \dots \dots 857 24 \dots Bronchitis \dots \dots 857 24 \dots Bronchitis \dots \dots $1,474$ 72 1 Pneumonia \dots \dots $10,843$ 530 10 Congestion of the lungs, pulmonary apoplexy $2,408$ 213 \dots Asthma \dots \dots $1,478$ 42 \dots Gastritis \dots \dots $2,559$ 147 1 Enteritis \dots \dots $1,478$ 42 \dots Ascites \dots \dots $1,530$ 76 2 Ascites \dots \dots 133 83 22 \dots Hernia \dots \dots $$ $1,530$ 76 2 Mascites \dots \dots $$ $1,530$ 76 2					· ·		
3 Laryngitis 857 24 Bronchitis $8,158$ 578 3 Pleurisy $1,474$ 72 1 Pneumonia $10,843$ 530 10 Congestion of the lungs, pulmonary apoplexy $2,408$ 213 Asthma 676 39 1 Other diseases of the respiratory system $1,478$ 42 4 Gastritis $$ $$ $42,559$ 147 1 Enteritis $$ $$ $42,433$ 183 $/3$ Peritonitis $$ 424 12 1 Ulceration of intestines 381 18 Hernia 73 6 Ileus 73 5					1		
Bronchitis 8,158 578 3 Pleurisy 1,474 72 1 Pneumonia 10,843 530 10 Congestion of the lungs, pulmonary apoplexy 2,408 213 Asthma 676 39 1 Other diseases of the respiratory system 676 39 1 Gastritis 676 39 1 Hernis 676 39 1 Intussion	• • •	3			-	- ·	
Pneumonia 10,843 530 10 Congestion of the lungs, pulmonary apoplexy 2,408 213 Asthma 676 39 1 Other diseases of the respiratory system 1,478 42 4 Gastritis 2,559 147 1 Enteritis 4,933 183 /3 Peritonitis 424 12 1 Ulceration of intestines 383 22 Ileus 758 64 1 Intussusception Stomach diseases undefined Hepatitis <td>• 3 •</td> <td></td> <td></td> <td></td> <td>578</td> <td>1</td> <td>1</td>	• 3 •				578	1	1
Congestion of the lungs, pulmonary apoplexy 2,408 213 Asthma 676 39 1 Other diseases of the respiratory system 1,478 42 4 Gastritis 2,559 147 1 Enteritis 2,559 147 1 Enteritis 4,933 .183 ./3 Peritonitis 4,933 .183 ./3 Peritonitis 424 12 1 Ulceration of intestines 381 18 Hernia Ileus			Pleurisy	1 1	72	1	
Asthma 676 39 1 Other diseases of the respiratory system 1,478 42 Gastritis 2,559 147 1 Enteritis 4,933 .183 ./3 Peritonitis 4,933 .183 ./3 Peritonitis 4,933 .183 ./3 Peritonitis 4,933 .183 ./3 Peritonitis 424 12 1 Ulceration of intestines 381 18 Hernia 383 22 Ileus 758 64 1 Intussusception 73 5 Stricture of intestines 73 5 Fistula	• • •				530	10	2
4 Other diseases of the respiratory system 1,478 42 5 Gastritis 2,559 147 1 9 Enteritis 2,559 147 1 9 Enteritis 4,933 .183 ./3 9 Peritonitis 424 12 1 10 Ulceration of intestines 381 18 11 Hernia 383 22 11 Ulceration of intestines 383 22 11 Ulceration of intestines 383 22 11 Ileus 11 Ileus	• • •					1	1
4 Gastritis $2,559$ 147 1 Enteritis $4,933$.183 /3 Peritonitis $4,933$.183 /3 Peritonitis $1,530$ 76 2 Ascites 424 12 1 Ulceration of intestines 381 18 Hernia 383 22 Ileus 758 64 1 Intussusception 73 5 Fistula 173 6 Stomach diseases undefined $1,299$ 43 1 Pancreas disease 13 Jaundice, gallstone $3,719$ 216 1	•••					1	•••
Enteritis					1	i .	•••
Peritonitis 1,530 76 2 Ascites 424 12 1 Ulceration of intestines 381 18 Hernia 383 22 Ileus 383 22 Ileus 383 22 Ileus 383 22 Ileus 383 22 Ileus .	• • 5	4					
Ascites 424 12 1 Ulceration of intestines 381 18 Hernia 383 22 Ileus 383 22 Ileus 383 22 Ileus 383 22 Ileus 758 64 1 Intussusception 173 6 Stricture of intestines 73 5 Fistula 1299 43 1 Pancreas disease 13 Jaundice, gallstone $3,719$ 216 1 Spleen disease 352 25					1		•••
Ulceration of intestines 381 18 Hernia 383 22 Ileus 383 22 Ileus 383 22 Ileus 758 64 1 Intussusception 173 6 Stricture of intestines 173 5 Fistula 173 5 Stomach diseases undefined 1,299 43 1 Pancreas disease 13 Jaundice, gallstone 3,719 216 1							
Hernia 383 22 Ileus 758 64 1 Intussusception 173 6 Stricture of intestines 73 5 Fistula 73 5 Stomach diseases undefined 40 1 Hepatitis 13 Hepatitis 858 42 Liver disease undefined 858 42 Liver disease undefined 90 5 5 Nephritis 893 107 4 Nephria 893 107 4					1	_	•••
Ileus 758 64 1 Intussusception 173 6 Stricture of intestines 73 5 Fistula 73 5 Stomach diseases undefined 40 1 Stomach diseases undefined 1,299 43 1 Pancreas disease 13 Hepatitis 858 42 Jaundice, gallstone 3,719 216 1 Spleen disease 352 25 Stohritis 63 2 Nephria 893 107 4	•••					1	
Intussusception 173 6 Stricture of intestines 73 5 Fistula 40 1 Stomach diseases undefined $1,299$ 43 1 Pancreas disease 13 Hepatitis $2,171$ 76 Jaundice, gallstone $3,719$ 216 1 Spleen disease 352 25 Shehritis 352 25 Nephritis 893 107 4			Tlong				
Stricture of intestines $$ 73 5 Fistula $$ 40 1 Stomach diseases undefined $$ $1,299$ 43 1 Pancreas disease $$ 13 $$ Hepatitis $$ $$ $2,171$ 76 $$ Jaundice, gallstone $$ $$ $3,719$ 216 1 Spleen disease $$ $$ 352 25 $$ Spleen disease $$ $$ $$ 352 25 $$ Nephrita $$ $$ 893 107 4		1			1		
Fistula 40 1 Stomach diseases undefined 1,299 43 1 Pancreas disease 13 Hepatitis 2,171 76 Jaundice, gallstone 858 42 Liver disease undefined 3,719 216 1 Spleen disease 352 25 Ischuria 893 107 4					1		
Stomach diseases undefined $1,299$ 431Pancreas disease 13 Hepatitis $2,171$ 76Jaundice, gallstone $3,719$ 216 1Liver disease undefined $3,719$ 216 1Spleen disease 352 25 5Nephritis 63 2 Nephria 893 107 4			Tistulo	1 AO	1		
Pancreas disease 13 Hepatitis $2,171$ 76 Jaundice, gallstone 858 42 Liver disease undefined $3,719$ 216 1 Spleen disease 90 5 5 Nephritis 352 25 Nephria 893 107 4		J	Stomach diagona undefined		1		
Hepatitis 2,171 76 Jaundice, gallstone 858 42 Liver disease undefined 3,719 216 1 Spleen disease 90 5 5 Nephritis 352 25 Nephria 893 107 4	•		Denarona diagona		1	•••	
Jaundice, gallstone 858 42 Liver disease undefined 3,719 216 1 Spleen disease 90 5 5 Nephritis 352 25 Ischuria 63 Nephria 893 107 4	۰.			. 2,171			
5 Spleen disease 90 5 5 Nephritis 352 25 Ischuria 63 Nephria 893 107 4							
5 Nephritis 352 25 Ischuria 63 2 Nephria 893 107 4						1	2
Ischuria 63 2 Nephria 893 107 4	• •				1	•••	
Nephria 893 107 4		5					•••
				1		•••	
			Dichotog	1	1	4	1
	• • •		Diabetes	. 217	17	•••	•••

* The Chinese and Aborigines are included in this column.

† Deaths from this cause are now usually returned under other heads.

CAUSES OF DEATH IN CLASSIFIED, ARRANGEMENT-continued. (26½ Years: 1853 to 1879; and Year 1880.)

- Billing		(203 1ears : 1835 to 1879; and 10	······		f Deaths.	Tration 1
		Causes of Death.	263	Ī	Year 1880.	
Class.	Order.		Years: 1853–1879	Total.	Chinese.	Abori- gines.
693	7	DISEASES, ETC.—continued.				
m.	5	Stone, gravel	90	7	•••	•••
		Cystitis	300	25	•••	•••
3 4 4 3 4 4		Other diseases of the urinary organs	1,067	50	1	,,
41.	6	Ovarian dropsy	101	5	•••	•••
401		Other diseases of the generative organs	373	12	•••	•••
es. l	7	Arthritis	129	8	1	
1:11		Ostitis, periostitis	38	2	27 • • •	
70		Other diseases of the locomotive system	480	. 19	•••	•••
5.2	8	Phlegmon, whitlow	51	•••	1	•••
102	ан. С	Ulcer	178	7		
-		Other diseases of the skin	346	12	1†	., •••
IV.	1	Premature birth	5,011	326		· •••
6. Č.S.		Cyanosis	332	25	•••	<u>_</u>
312		Spina bifida	221	10	•••	•••
i si s		Other malformations	660	25	•••	
231	1	Leerning	6,738 11	79		
Ghe -		Other developmental diseases of children	87			r r ●●● 1 m
	2	Paramenia		4	•••	1: •••
671		Childbirth	2,621	$\frac{111}{7}$	•••	•••
175		Other developmental diseases of adults	3,906	343	1	2
ΞĘ.	3	Old age	18,959	693	6	
v .	4 1	Atrophy and debility	6,944	269	7	t <u>⊥</u>
	Ľ	Fractures, contusions, &c Wounds	494	203	-	-
		Burns and scalds	2,116	84	•••	•••
. i i		Sunstroke	401	11	•••	•••
** 3		Struck by lightning	35	3		••••
101	-	Poison	359	19	1	
36		Snake or însect bite	70	2		
		Drowning	4,555	192	2	2
Ĵ ×		Suffocation	1,498	57	i.	—
Сī —		Other or unspecified accidents	3,766	17	1	•••
í	3	Murder, manslaughter, and justifiable homi-		• • • • •	-	1
· · ·	9	cide	474	‡ 19	2	18
1 F	4	Wounds	494	34		
	T	Poison	315	16		
· · · ·		Drowning	319	27	1	
s, et		Hanging	470	40	4	
÷		Suicide by other means	67	1		
5)()	5	Judicial hanging	72	1		
а ж. с. анан		Causes not specified	1,637	38	2	1
	_		f Jooth	·	·	

565. The next table shows the same causes of death, arranged in the Causes of order of their fatality during 1880, with the numbers who died from death in order of each cause in that year, and during the twenty-six years and a half ended with 1879, also the order of fatality of the different causes during that period :---

death in fatality.

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* The Chinese and Aborigines are included in this column. ‡ Including 3 outlaws who were killed by the police.

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Victorian Year-Book, 1880-81.

CAUSES OF DEATH IN ORDER OF FATALITY. ($26\frac{1}{2}$ Years : 1853 to 1879; and Year 1880.)

Order of F	atality.		Number of	Deaths
26] Years : 1853-1879.	Year 1880.	Causes of Death in Order of Fatality, 1880.	26 1 Years : 1853-1879.	Year 1880.
	1	Phthisis	20,693	1,17
3	2	Atrophy and debility	18,959	693
2	3	Accidents	20,238	680
4	· 4	Diarrhœa	17,714	604
8	5	Diseases of the organs of circulation not classed	10,307	588
11	6	Bronchitis	8,158	578
7	7	Pneumonia	10,843	530
20	8	Cancer	4,233	383
23	9	Old age	3,906	343
15	10	Premature birth	5,011	32
6	11	Typhoid fever, &c	11,046	29
14	12	Diseases of the nervous system not classed	6,621	29
9	13	Convulsions	9,602	25
16	14	Apoplexy	4,939	25
18) (Cephalitis	4,454	25
24	15	Measles	3,847	25
25	16	Diseases of the liver not classed	3,719	21
29	17	Congestion of lungs, pulmonary apoplexy	2,408	21
12	18	Diphtheria	7,834	19
17	19	Enteritis	4,933	18
28	20	Paralysis	2,428	18
19	21	Whooping-cough	4,298	17
21	22	Hydrocephalus	4,067	17
22	23	Croup	3,979	15
27	24	Gastritis		14
26	25	Childbirth and metria		13
5	26	Dysentery	1 /	12
35	27	Suicide		11
32	28	Want of breast-milk		11
49	29	Nephria		10
30	30	Tabes mesenterica	2,176	8
39	31	Aneurism		8
40	32	Rheumatism	1,301	8
13	33	Teething		
33	34	Dropsy		
31	1) 05 (Hepatitis	2,171	
36		Peritonitis	1,530	
38	36	Pleurisy	1,474	
44	37	Epilepsy	1,093	(
34	1 200 (Alcoholism	1,751	(
53	38 }	Ileus	758] (
43	39	Malformations	1,213	
42	1 10 1	Cholera		
45	 } 40 }	Diseases of the urinary organs not classed	1,067	
55	41	Venereal diseases	. 714	4
60	42	Hydatids	. 496	4
41	43	Diseases of the stomach not classed	. 1,299	
37	\mathbf{h}	Diseases of the respiratory system not classed	1,478	4
51	44	Jaundice, gall-stone	858	
66	45	Tumor	297	
56	46	Pericarditis	707	.
58	47	Asthma	676	
46	48	Erysipelas	1 090	
47	\mathbf{h}	Source-lo	1 009	
63	{ 49 {	Miasmatic diseases not classed	436	

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CAUSES OF DEATH IN ORDER OF FATALITY—continued. (26¹/₂ Years: 1853 to 1879; and Year 1880.)

Order of Fa	atality.						Number of	Deaths.
261 Years : 1853–1879.	Year 1880.	Causes of De	ath in Ord	ler of Fats	lity, 1880.		26] Years : 1853–1879.	Year 1880.
10	1 0 1	Scarlatina		•••		•••	8,684	26
. 54	50 {	Tubercular dise	ases not o	classed			742	26
Z 71 -	§ 51 §	Nephritis		•••	•••		352	25
73	3 31 3	Cystitis					300	25
52	52	Laryngitis		•••			857	24
48	53	Thrush	•••	•••		•••	961	23
50	54 {	Influenza, coryz	a, catarri	h	•••	· •••	871	22
67	5 7 1	Hernia		•••		•••	383	22
61	55	Diseases of loco					480	19
62) (Murder, mansla		nd justif	iable hon	nicide	474	19
68	56	Ulceration of in	testines	•••	•••	•••	381	18
76	57	Diabetes		•••		•••	217	17
69	58	Mortification	•••	•••	•••	•••	374	16
.80	59	Gout		•••	•••	•••	166	13
72		Skin diseases	•••	•••		•••	346	12
70	60 ₹	Diseases of the o	organs of	generati	ion not cl	lassed	373	12
64	$\mathbf{y} \in \mathbf{U}$	Ascites		·			424	12
65	61	Privation	•••	•••		•••	422	11
74) 60 [Purpura and sci	urvy		•••		276	9
57	62	Remittent fever			•••		686	9
89	j an l	Carbuncle, boil	•••	•••	•••	•••	63	8
81	{ 63 {	Arthritis	•••			•••	129	8
84	1 . (Stone, gravel	•••				90	7
3 77	64	Ulcer	•••			•••	178	7
78	65	Intussusception	•••			•••	173	6
82) (Ovarian dropsy	•••	•••		•••	101	5
84	66 }	Spleen disease	•••	•••		•••	90	5
86	$\left(\begin{array}{c} \\ \\ \\ \end{array} \right)$	Stricture of the				•••	73	5
83	$\{ \}$	Ague					93	4
85	67	Paramenia					87	4
59	$\left(\begin{array}{c} \bullet \\ \bullet \end{array} \right)$	Quinsy					607	4
89	5 2	Ischuria					63	2
90		Worms, &c.					59	2
92	>68<	Chorea	•••	•••	••••		43	2
94		Ostitis, periosti	tig	•••	••••		38	2
100		Polypus		•••	•••	•••	9	2
72	$K \geq$	Execution			•••		72	1
93	\ 69 \	Fistula	•••	•••	•••	•••	40	
95	{ 00	Dietetic disease	not clas	hap	•••	•••	28	
75) (Insanity	5 100 010	bu	•••	•••	255	
79	•••	Diathetic diseas	on not al	 hassa	•••	•••	169	
88	•••	Noma		assea	***	•••	66	
	•••	Phlegmon, whit	low	•••		***	51	
91	•••	U		•••		•••	40	
93	•••	Chicken-pox, &		•••	***	•••	21	
96 97	•••	Small-pox Parasitic diseas	or not al	happe	***	•••	21 20	
	•••			199CU		•••	13	(
98	•••	Pancreas diseas		of abild.	on not o	 Form		•••
² 99	•••	Developmental	urseases	or child	.еп поь С	asseu		
101 102	•••	Glanders Developmental	diseases	of adults	s not clas	sed		
•.				0011 5 5 -			979 619	11 61
		Deaths from	specified	causes	•••	•••	272,613	11,614
<i></i>	ł	Deaths from	unspecifi	lea cause	s	•••	1,637	1 3
	1	Deaths from					274,250	11,65

K9

Death rate from various causes in Victoria and England.

566. The fatality of the different circumstances which cause death in this colony, as compared with the fatality resulting from similar causes in England and Wales, is shown by the following table, in which the number of persons dying from each cause in either country is compared with the number of persons living in the same country. The totals of each class and order are given, as also are some of the principal diseases. The Victorian results relate to the year 1880 and to the twenty-six years and a half ended with 1879, and the results for England and Wales to the twenty-five years ended with 1874:—

ANNUAL DEATH RATE FROM EACH GROUP OF CAUSES AND CERTAIN DISEASES IN VICTORIA AND ENGLAND AND WALES.

1 44 -	×- 1	n an	Number of of	Annual Deaths Mean Populat	s per 100,000 ion.
Class.	Order.	Causes of Death.	Vic	toria.	England and Wales.
		n an	Year 1880.	Average of 26½ Years: 1853 to 1879.	Average of 25 Years: 1850 to 1874.
-		All causes Specified causes	1,370·27 1,365·80	1,680·79 1,670·77	2,228-28 2,205:66
	4.1 M	CLASSES.	-		
· I.		Zymotic diseases	285 .06	512.59	503.87
-II.		Constitutional diseases	238.37	221.19	420:54
III.		Local diseases	556.13	563.16	849:97
IV.	•••	Developmental diseases	190.04	236.24	355.15
V.		Violent deaths	96-20	137.59	76-13
		ORDERS AND DISEASES.*	• • •		
I.	1	Miasmatic diseases	247.43	471.07	478.94
		Measles	29.64	1	42.82
-		Scarlatina	3.06	53.22	103.80
	1. M	Diphtheria	23.28	48.01	1)
	÷.	Croup	18.35	24·39 26·34	24:06
		Whooping-cough	21.05 34.93	1	51:46 50·39†
		Typhoid fever, &c	14.35		6.72
		Dysentery Diarrhœa	14 33 71.03	108.26	89.06
		Metria (see Childbirth and metria		4.24	5.99
		infra)	200	1 41	
	2	Enthetic diseases (venereal diseases,	5:76	4.39	7-47
,		&c.)			
	3	Dietic diseases (privation, want of breast-milk, alcoholism, &c.)	23.29	27· <u>7</u> 3	11.36
	4	Parasitic diseases (thrush, hydatids,	8.58	9.41	6.10
• •	1	&c.)		0 44	
II.	1	Diathetic diseases	62.68	45.42	84.25
• بھیندہ		Dropsy	9.17	12.31	38:51
	-	Cancer, &c	45.04		
,	2	Tubercular diseases	175.69	175.77	336:29
		Phthisis	138.18	126.82	256.72
		Hydrocephalus	20.58	24.93	37.07

* Particulars respecting some of the principal diseases only are given.

† The death rate from typhoid fever is given for the eight years ended with 1877. Prior to 1870, it was not separated from typhus in the English returns.

- 20 - 20		na suuva de constante de docarda. La nacionador de constante en cons	Number of Annual Deaths per 100,000 of Mean Population.				
Class.	Order.	der. Causes of Death,		Victoria.			
via) Viau	dis series e series series	and a set of the set of	Year 1880.	Average of 26½ Years: 1853 to 1879.	Average of 25 Years: 1850 to 1874.		
		ORDERS AND DISEASES*—continued.			the disc the		
III.		Diseases of the systems-					
ر بغمغ را بالی ک	1	Nervous (brain diseases, &c.)	153.82	180.40	280.79		
	2	Circulatory (heart diseases, &c.)	83.38	76.47	94.97		
an angestation in the	3	Respiratory (lung diseases, &c.)	176.17	158.69	327.31		
	4	Digestive (stomach, bowels-dis-	107.72	118.92	100.53		
	1	eases, &c.)			_		
	5	Urinary (kidney, bladder-dis-	27.40	18.27	27.26		
	*	eases, &c.)	E				
4 44.494 (* 1	6	Generative (ovarian dropsy, &c.)	2.00	2.90	5.70		
	7	Locomotive (arthritis, ostitis, &c.)	3.41	3.97	7.74		
	8	Integumentary (phlegmon, ulcer,	2.23	3.52	5.70		
		(E)/, &C.) and the result of the second second	, i-Ť		the part of		
IV.	•••	Developmental diseases-					
	1	Of children (malformation, teeth-	54.68	79.51	87.01		
	99.001 	ing, &c.)		Patri Ate			
יי. פירפ ר	2	Of adults	13.52	16.60	11.63		
よびそう	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Childbirth (see Childbirth and) 13∙05	16.00	11.20		
	1	metria infra)	110				
	3	Of old people (old age)	40.34	23.94	137.37		
.)	4	Diseases of nutrition (atrophy and	81.49	116.19	119.14		
57		debility)	70.07	104.09			
V.		Accident or negligence	79.97	124.03			
	3	Homicide Suicide	$\begin{array}{c c} 2 \cdot 23 \\ 13 \cdot 88 \end{array}$	2.91	> 76.13		
	4 5		13.88	10·20 ·44	i i stratin kar≩onton. N		
		Execution		44	<u></u>		
I. IV.	1 2	Childbirth and metria	15.40	20.24	17.19		

ANNUAL DEATH RATE FROM EACH GROUP OF CAUSES AND CERTAIN DISEASES IN VICTORIA AND ENGLAND AND WALES-continued.

567. By means of the results shown in this table, it is found that over Results coma series of years the mortality from the following causes is greater in Victoria than in England and Wales :--- Zymotic diseases, notably croup, dysentery, diarrhœa, and typhoid fever; diseases of the dietic order, including want of breast-milk and alcoholism; diseases of the parasitic order, including thrush, hydatids, &c.; diseases of the stomach and bowels; violence; and the consequences of childbirth. From every other cause shown, also from all causes combined, the death rate is on the average higher in England and Wales than in Victoria.

568. The following table shows in order of fatality the four or five Principal principal causes of death during 1880 of males and females at various Amongst other items of interest, it will be noticed that the ages. complaints most fatal to infants and very young children were atrophy

causes of death at various ages.

pared.

* Particulars respecting some of the principal diseases only are given.

and diarrhea, and to old people, bronchitis and heart disease; that typhoid fever was particularly fatal to young adults; that phthisis stood first in the list of both males and females between the ages of 15 and 55; that accidents appear in the list of males at all the ageperiods between 5 and 55, and were more fatal than any other cause of death save phthisis, which is also the only complaint which ranks before child-bearing in the case of females between 25 and 35, and the only one more fatal than cancer between the ages of 35 and 55.

PRINCIPAL CAUSES OF DEATH OF MALES AND FEMALES AT VARIOUS AGES IN ORDER OF FATALITY, 1880.

		Order	of Fatality.	
Ages.	1	2	8	4
		Males.		
All ages	Phthisis	Accidents	Heart disease	Atrophy
Under 1 year 1 to 5 years	Atrophy Measles	Diarrhœa Diarrhœa	Premature birth Croup	Convulsions Pneumonia
5 to 10 "	Diphtheria {	Croup Accidents	Cephalitis	Pneumonia Typhoid fever
10 to 15 "	Accidents	Typhoid fever	(neart disease	Phthisis Scrofula
15 to 25 " 25 to 35 " 35 to 45 " 45 to 55 "	Phthisis Phthisis Phthisis Phthisis	Accidents Accidents Accidents Accidents	Typhoid fever Typhoid fever Heart disease Heart disease	Brain disease Heart disease Brain disease Cancer
45 to 55 ", 55 to 65 ", 65 to 75 ", 75 & upwards	Heart disease Old age Old age	Phthisis Heart disease Bronchitis	Cancer Bronchitis Heart disease	Pneumonia Pneumonia Pneumonia
		FEMALES.		
All ages	Phthisis	Atrophy	Diarrhœa	Bronchitis
Under 1 year	Atrophy	Diarrhœa	Premature birth (Bronchitis)	Bronchitis
1 to 5 years	Measles	Diarrhœa Croup	Pneumonia 5	Croup
5 to 10 "	Diphtheria {	Croup Typhoid fever	(Dhoumation)	Hydrocephalus
10 to 15 " {	Typhoid fever Diphtheria	Accidents	{Rheumatism Heart disease }	Phthisis Heart linear
15 to 25 " 25 to 35 "	Phthisis Phthisis	Typhoid fever Childbearing*	Typhoid fever	Heart disease Brain disease
35 to 45 ,, 45 to 55 ,,	Phthisis Phthisis	Cancer Cancer	Heart disease Apoplexy	Childbearing* Liver disease
55 to 65 ,, 65 to 75 ,,	Cancer Old age	Heart disease Brain disease Branchitic	Heart disease	Paralysis Apoplexy
75 & upwards	Old age	Bronchitis	Heart disease	Apoplexy

Zymotic diseases.

569. Although a slight epidemic of measles prevailed during the year, the death rate from zymotic diseases was, as in the previous year, considerably below the average. Ever since the abatement of the fatal

* Including childbirth and metria.

epidemics which commenced in 1874, and continued until 1876, the death rate from this class of complaints has been decreasing, and, although usually higher, it has been in the last four years even lower than in England. The death rate from scarlatina and diphtheria, from typhoid fever, and even from diarrhœa-the fourth most fatal disease in Victoria*--were both in 1879 and 1880 below the English rates, which, especially as regards the last-named, is a very unusual circum-Measles and venereal diseases were the only complaints under stance. this head from which the death rate in 1880 was above the average.

570. The following table shows the number of deaths from zymotic Children's diseases particularly affecting children which occurred during the diseases. It will be noticed that measles seventeen years ended with 1880. prevailed in 1880, but that all the other complaints caused fewer deaths in that year than in 1879. This is the third time that measles has prevailed in an epidemic form during the period, there having been an interval of 6 years between the first and second, and of 4 years between the second and third visitations of that complaint. It moreover appears that in 1880 the mortality from scarlatina was lower than in any of the previous years except 1870, and the mortality from diarrhea than in any except 1864; also that the mortality from dysentery and from diphtheria was the least in the whole period of seventeen years :---

DEATHS FROM	Zymotic	DISEASES	CHIEFLY	AFFECTING CHILDREN,
an a		1864 то	1880.	· ·

		Number of Deaths from—												
Year.	Measles.	Scarlatina.	Diph- theria.	Croup.	Whooping- cough.	Dysentery.	Diarrhœa.	Total.						
1864	7	278	451	160	25	243	528	1,692						
1865	11	215	391	171	304	402	864	2,358						
1866	427	462	331	132	365	525	1,027	3,269						
1867	630	621	334	115	205	430	986	3,321						
1868	24	460	451	194	243	220	640	2,232						
1869	24	224	493	162	100	306	858	2,167						
1870	3	24	418	99	50	244	706	1,544						
1871	4	27	255	90	318	316	626	1,636						
1872	7	135	320	121	227	424	747	1,981						
1873	1	188	42 0	142	299	357	629	2,036						
1874	256	120	375	159	151	325	846	2,232						
1875	1,541	985	239	135	58	509	1,002	4,469						
1876	5	2,240	201	173	13	202	675	3,509						
1877	6	183	359	315	245	254	963	2,325						
1878	5	136	336	331	291	197	877	2,173						
1879	3	61	337	275	193	140	698	1,707						
1880	252	26	198	156	179	122	604	1,537						
otal in 17 years }	3,206	6,385	5,909	2,930	3,266	5,216	13,276	40,188						

zymotic

* See table following paragraph 565 ante.

Victorian Year-Book, 1880-81.

Typhoid fever.

• • • • • •

571. Deaths from typhoid fever in 1880 numbered only 297, which was about 100 below the average of the last 14 years, and was, with two exceptions, the smallest number recorded during that period. When compared with population, the mortality from this complaint is found to have been absolutely lower than in any previous year. The following table shows the number of deaths from typhoid fever, and their proportion to the population, during each of the past fourteen years :--

<u>.</u>		•	1.		Deaths from	n Typhoid Fever.
		Yea	r.		Total Number.	Number per 10,000 Persons Living.
	1867		· · · ·	· · · · · · · · · · · · · · · · · · ·	455	7.06
,	1868	•••	•••	•••	295	4.45
	1869	•••	•••	•••	360	5.24
	1809	•••	•••		416	5.83
1.	1870	•••	•••	•••	269	3.62
	1871	•••	•••	•••	323	4.29
	1873	•••	•••	•••	282	3.68
	1874	•••		***	470	6.04
	1874	•••	•••	***	455	5.78
	1876		•••	•••	375	4.71
	1877	•••	•••	•••	532	6.28
	1878	•••	•••	•••	532	6·48
	1879	•••	•••	•••	438	5.25
	1875	•••	•••		297	3.49
	1000	•••	•••	•••	401	
		Mean			393	5.18

DEATHS	FROM	Typhoid	FEVER,	1867	то	1880.
--------	------	---------	--------	------	----	-------

Typhoid fever in England and Wales, 572. In England and Wales the mortality from typhoid fever has been considerably reduced of late years. During the five years ended with 1874 the death rate therefrom was 5.58 per 10,000 persons living, which is slightly higher than in Victoria, whereas in the four years ended with 1878, it fell to 4.85, 3.96, 3.61, and 3.82 respectively per ten thousand,* or much lower than it was in the corresponding period in this colony.

Zymotic diseases in Australasian colonies. 573. As compared with population, zymotic diseases apparently cause greater mortality in Victoria than in any other Australian colony except Queensland. The following are the figures derived from observations extending over a series of years, the colonies being placed in order according to the rate prevailing in each. No information is at hand respecting Western Australia:—

* The English figures quoted are those of enteric, or typhoid, and simple continued fever, which probably correspond with fevers tabulated as typhoid in Victoria. These fevers in England were not separated from typhus until 1870, the latter being a disease which, it is said, does not exist in Victoria.

Colony.	Years over which the Observations extend.	Deaths from Zymotic Diseases per 10,000 Persons Living.
1. Queensland	1868 to 1878	53.8
2. Victoria	1000 ± 0.1070	40.1
3. South Australia	1869 to 1878	39.1
4. New South Wales	1868 to 1878	38.1
5. New Zealand	1872 to 1878	33.1
6. Tasmania	1868 to 1878	29.2

ORDER OF COLONIES IN REFERENCE TO MORTALITY FROM ZYMOTIC DISEASES

574. The following table shows the mortality from typhoid fever in the same colonies during the seven years ended with 1879. This complaint appears to be more fatal in Queensland than it is in Victoria or New South Wales, where the rates are about equal, but less so in South Australia, Tasmania, and New Zealand :---

DEATHS FROM TYPHOID FEVER IN AUSTRALASIAN COLONIES, 1873 то 1879.

	Number of Deaths from Typhoid Fever.												
Year.	Total. Per 10,000 Persons Living.		Total.	Per 10,000 Persons Living.	Total.	Per 10,000 Persons Living.							
VICTORIA.			NEW SOU	TH WALES.	QUEENSLAND.								
1873	282	3.68			67	4.78							
1874	470	6.02			78	5.03							
875	455	5.78	298	5.00	158	9.16							
876	375	4.71	401	6.49	72	3.91							
877	532	6.28	375	5.81	105	5.38							
878	532	6.48	441	6 ·50	197	9.53							
.879	438	5.25	265	3.71	132	6.16							
Total	3,084	5.52	1,780	5.48	809	6.38							
	South A	USTRALIA.	TAS	MANIA.	NEW ZEALAND.								
873	68	3.48	24	2.32	127	4.41							
.874	97	4.82	44	4.22	161	5.05							
.875	94	4.23	50	4.81	340	9.47							
876	92	4.32	26	2.49	195	5.03							
.877	84	3.63	41	3.86	133	3.26							
878	106	4.37	50	4.61	131	3.11							
879	101	3.97	38	3.42	208	4.64							
Total	642	4.14	273	3.68	1,295	4.92							

575. The death rate from Constitutional Diseases, Class II., was Deaths from above the average. In this class, cancer caused 383 deaths, which is the same number as in 1879, but a larger one than in any previous As this complaint stood eighth in 1880, and ninth in 1879, in year. the list of causes of death*---its usual place being the twentieth---and

cancer.

mortality therefrom has for years past been increasing both here and in England, I have considered it of sufficient importance to warrant my devoting to it the following table, now published for the first time, which shows the number of deaths from cancer, and the number per 10,000 persons living, in each of the last twenty years :—

			Deaths from Cancer.							
	Years.	-		Total Number.	· · · ·	Number per				
		Males.	Females.	Total.	10,000 Person Living.					
1861		•••	52	50	102	1.89				
1862	•••		30	50	80	1.46				
1863			58	45	103	1.83				
1864			55	72	127	2.17				
1865	•••		81	70	151	2.47				
1866			52	64	116	1.84				
1867	•••		63	57	120	1:87				
1868			95	88	183	2.76				
1869	•••		85	99	184	2.68				
1870			109	105	214	3.00				
1871			100	93	193	2.62				
187 2	•••		130	96	226	3.00				
1873	•••		122	128	250	3.27				
1874	•••		146	122	268	3•45				
1875	•••		168	140	308	3.91				
1876			150	153	303	3.80				
1877	•••	· • • •	169	160	329	4.02				
1878	• • •		182	132	314	3.82				
1879	•••		205	178	383	4.59				
1880	•••		202	181	383	4.20				
Tota	l in 20 ye	ears	2,254	2,083	4,337	3.02				

DEATHS FROM CANCER, 1861 TO 1880.

Proportions 576. of the sexes who died of males. cancer.

576. Cancer is a complaint which usually affects females more than males. In the twenty years of which mention is made in the table, 92 of the former have died of it to every 100 of the latter, whereas in the total population females during the same vicenniad have probably averaged no more than 80 to every 100 males.

Deaths from phthisis.

577. Also under the head of Constitutional Diseases is classified phthisis or consumption, which in 1880 caused 1,175 deaths, a larger number than had ever been previously set down to that disease in one year. Except during the prevalence of epidemics, phthisis is the occasion of more deaths than any other complaint; in the year under review it caused nearly twice as many deaths as atrophy and debility, those being the complaints which, in order of fatality, stand next to phthisis on the list.*

Death rate from phthisis. 578. In the following table, which shows the number of deaths from phthisis in each of the last twenty years, and their proportions to the

* See table following paragraph 565 ante.

Vital Statistics.

total population, the results differ, more especially since 1873, from those given in previous issues of the Victorian Year-Book, as the rates have been re-calculated in accordance with amended estimates of population based upon the returns of the recent census. By the present figures it appears that the death rate from this complaint has of late years been increasing, and in 1880 was higher than in any previous year since 1861; also that during the last 7 years the average rate has been over 13, whereas formerly it was only a little more than 12 per 10,000 persons living :--e e To este nes

	Deaths fr	om Phthisis.		Deaths from Phthisis.			
Year.	Total Number.	Number per 10,000 Persons Living.*	Year.	Total Number,	Number per 10,000 Persons Living.*		
1861	753	13.94	1872	876	11.63		
1862	707	12.90	1873	945	12.34		
1863	717	12.74	1874	1,011	13 [.] 00		
1864	686	11.70	1875	1,027	13.04		
1865	741	12.12	1876	1,010	12.68		
1866	782	12:43	1877	1,088	13 [.] 46		
1867	793	12.31	1878	1,124	13.68		
1868	-746	- 11.25	1879	1,058	12.69		
1869	893	12.99	1880	1,175	13.82		
1870 1871	888 841	12:45 11:41	Total in } 20 years }	17,861	12.65		

DEATHS FROM PHTHISIS IN VICTORIA, 1861 TO 1880. COMMAN

Note.-Deaths registered as occurring from hæmoptysis are included in this table.

579. The following table gives the number of deaths from phthisis Ages at at each age and their proportion to the deaths from all causes :-

death from phthisis.

DEATHS FROM PHTHISIS, 1880.-AGE AT DEATH.

		Numb	Percentage of Deaths from			
Ages.		Males.	Females.	ר	otal.	Phthisis to those from all Causes.†
Under 5 years		23	18	41	41‡	•90
5 to 10		7	8	12	15‡	3.74
10 15		5	7	10	12	4.84
15 95		104	149	181	253§	$32 \cdot 15$
95 95	•••	140	136	81	276	35.89
25: 45		116	109	17	225	22.57
AK KK		149	74		223	16.38
55 C5		76	21	•••	.97	8.22
85 75		19	7		26	3.16
75 years and upwards		2	3		5	•88
Ingnosified		•••	2	1	2, <u>;</u> ;	
Total		641	534	343	1,175	10.08

Note.-The small figures in the total column denote the Victorians included in each number.

* For figures of mean population used in making these calculations, see table "Breadstuffs available for Consumption" in Part IX., Production, post.

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† See table following paragraph 547 ante.
‡ Including 1 Aboriginal in each line.

§ Including 2 Aborigines. || Including 5 Aborigines.

Victorian Year-Book, 1880-81.

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Ages at which phthisis is most fatal. 580. It will be observed that the mortality from this complaint in 1880 was highest between the ages of 15 and 35, but that it was also high between 35 and 55. The value of these facts is, however, affected by the relative proportions of those living at the different ages, which is not at present accurately known.

Period of illness and residence. 581. The following table shows the numbers who died of phthisis in Victoria during 1880, also their ages and duration of illness contrasted with the length of time they had lived in the Australasian colonies *:—

DEATHS FROM PHTHISIS IN VICTORIA, 1880.—AGES AT DEATH AND DURATION OF ILLNESS, CONTRASTED WITH PERIOD OF RESIDENCE IN AUSTRALASIA.

				•]	Perio	ođ o	of R	esid	enc	e in	Aust	ralas	ian C	oloni	ie s.		a
		Trader 1 month	1 to 6 months.	6 to 12 months.	1 to 2 years.	2 to 3 years.	3 to 4 years.	4 to 5 years.	5 to 10 years.	10 to 15 years.	15 to 20 years.	20 to 25 years.	25 years and upwards.	Not known (not Australian).	Born there.†	Not known (no information <i>re</i> birthplace).	Total Deaths from Futhisis,
Ages at Death.			L 1 2 7 . 5	···· •··· •·· •··	 1 4 4 4 	 1 1 5 2 3 1 	 1 5 3 	 2 4 2 1 	 7 18 8 7 1 2 	 11 22 27 5 3 	 5 25 40 19 4 2	 8 22 49 64 28 5 1	 43 43 92 47 15 2 	 6 13 15 5 3	41 13 10 209 101 21 8 2 1 1	 1 3 8 7 9 6 1 	41 15 12 253 276 225 223 97 26 6 1
	Total		3 13	5	13	13	9	9	44	<u>68</u>	95	177	${242}$	42	407	35	1,175
ss.	Under 1 month 1 to 3 months 3 6 6		- 2	1 1 1 1	 2 1 1	1 1	 1	 1 2	2 7 5	4 1 7 11	4 1 10 14	10 12 20 25	13 14 25 32	2 1 4	21 27 62 81	1 2	58 61 135 180
Duration of Illness.	Some months 1 to 2 years 2 ,, 3 ,, 3 ,, 4 ,, 4 ,, 5 ,, 5 ,, 10 ,,	· · · · · · · · · · · · · · · · · · ·	. 2 . 2 . 1		3 2 	1 2 2 	2 1 1	 1 1 	8 6 5 1	 12 5 3 5	 16 13 7 6	 25 23 11 3 7	30 15 7 6	2 1 2	48 10 4 7	 4 1	2 192 144 55 18 35
Dur	10 years and over Some years, long standing, &c.	} } }	•		1	 1			•••	1 2	 4	3 2	4		2	1	11. 26
_	Unknown .	•	1 6		3	5	4	4	10	17	20	36	45	17	63	26	258

* Statistics of the duration of illness in connection with period of residence in Australia were first published in the well-known work by W. Thomson, F.R.C.S. Ed., entitled *Phthisis*, and the Supposed Influence of Climate. Melbourne: Stillwell and Knight, 1870.

† Including 343 natives (10 being Aborigines) of Victoria, 19 (1 being an Aboriginal) of New South Wales, 12 of South Australia, 30 of Tasmania, and 3 of New Zealand.

582. Examining this table, it is found, in regard to the persons of Period of whom full particulars are given,* that in all but 22 instances the period greater of residence in the Australasian colonies was greater than the duration illness. of illness, and therefore that the complaint must have been contracted there; also, that in no less than 407 cases, or $34\frac{1}{2}$ per cent. of the whole, the person dying was a native of the colonies. These facts, combined with similar results in previous years, unhappily completely destroy the theory that phthisis is a disease which cannot be generated in Australasia.

583. In 1880 the victims to phthisis respecting whom information Phthisis conwas given in the registers as to whether the disease was contracted in Australasia the colonies were more numerous in Melbourne and suburbs than in the extra-metropolitan districts of Victoria, the numbers being 503 and 426 respectively. Of those who died in Melbourne and suburbs, 488, or 97 per cent., and of those who died in other places, 419, or 98 per cent., are said to have been first attacked by the disease in Australasia. These facts are shown by the following table :---

DEATHS FROM PHTHISIS, 1880.-DISEASE CONTRACTED IN AUSTRALASIA AND ELSEWHERE.

	Persons who Died of Phthisis.†									
Place where Disease was Contracted.		ourne and ourbs.		Metropolitan tricts.	Total in Victoria.					
	Number.	Percentage.	Number.	Percentage.	Number.	Percentage.				
Australasian colonies Elsewhere	488 15	97·02 2·98	419 7	$98.36 \\ 1.64$	907 22	97 · 63 2 · 37				
Total	503	100.00	426	100.00	929	100.00				

584. The period of residence in the Australasian colonies of most Time of of those who died of phthisis in Victoria is available for the five years Australasia. The information is complete respecting 5,096 ended with 1880. persons, and of these, 1,513, or 30 per cent., were born in Australasia; 3,221, or 63 per cent., had resided there for upwards of five years; 168, or a further 3 per cent., had resided there for upwards of two years; and only 194, or about 4 per cent., had lived there for less than two The following table shows the number of persons who died of vears. phthisis in each year in combination with their period of residence in Australasia, those being omitted of whom the term of residence was not stated :---

259

where.

residence

than time of

^{*}Although in 195 cases (exclusive of those born in the colonies), or a sixth of the whole, the duration of illness was unspecified, only 24 of these had resided in the colonies for less than five years, so that the great majority of them also acquired the complaint in Australasia. † Only the numbers respecting whom full particulars are stated in the death registers.

DEATHS FROM PHTHISIS,* 1876 TO 1880.—PERIOD OF RESIDENCE IN AUSTRALASIA.

•	Numbers who Died of Phthisis.								
Period of Residence in Australasian Colonies.	1876.	1877.	1878.	1879.	1880.	Total in five Years.	Proportion per Cent.		
Under 1 month	6	4	8	1	3	22	•43		
1 month to 1 year	25	20	23	18	18	104	2.04		
1 year to 2 years	18	11	11	15	13	68	1.33		
2 years to 5 years	33	39	40	25	31	168	3.30		
5 years and upwards	672	682	650	591	626	3,221	63.21		
Born there	193	252	316	345	407	1,513	29.69		
Total	947	1,008	1,048	995	1,098	5,096	100.00		

Phthisis in Melbourne and country.

585. In proportion to population, the deaths from phthisis have always been much more numerous in Melbourne and suburbs than in the remainder of the colony, as will be seen by the following figures, which give the results for twenty years :-

DEATHS FROM PHTHISIS PER 10,000 PERSONS LIVING IN MELBOURNE AND COUNTRY DISTRICTS, 1861 TO 1880.

Yea	ar.	Melbourne and Suburbs.	Extra- Metropolitan Districts.	Year.	Melbourne and Suburbs.	Extra- Metropolitan Districts.
1861		23.44	10.63	1872	18.69	8.62
1862	•••	24.64	8.71	1873	20.51	8.77
1863		23.71	8.79	1874	22.04	8.94
1864		20.08	8.70	1875	21.46	9.25
1865		$22 \cdot 11$	8.57	1876	22.46	8.28
1866		20.42	9.53	1877	22.74	9.29
1867		21.56	8.87	1878	22.62	9.63
1868		20.83	7.63	1879	21.77	8.45
1869		23.87	8.83	1880	$23 \cdot 95$	8.92
1870		22.49	8.56		·····	·
1871	•••	22.08	7.20	Means	22.07	8.80

Phthisis in

586. There is no doubt that for years past the death rate from and United phthisis in Melbourne and suburbs has been to a certain extent swelled Kingdom. by the presence of persons who started from Europe whilst suffering from the disease in an advanced stage, having been induced to take the voyage to this colony under the hope that benefit might be derived from the Australian climate, but have landed in Melbourne only Notwithstanding this disturbing element, however, to die there. the death rate from phthisis is not so high in Melbourne and suburbs as in London, but it approximates closely to that in the United

> * Exclusive of 63 in 1876, 80 in 1877, 76 in 1878, 63 in 1879, and 77 in 1880, of which the necessary particulars were not given in the registers. 1

Kingdom, which, in 1875, was 22.24, in 1876, 21.45, in 1877, 21.01, and in 1878, 21.34 per 10,000 persons living; but the death rate from phthisis in Ireland, which in 1878 was 19.45, and in the previous ten years averaged 18.77, per 10,000 persons living, is lower than that of Melbourne. The latter, however, is not nearly so high as that prevailing in Scotland, which in 1878 was 28 per 10,000 persons living.

587. Phthisis in Victoria, during the last five years, proved more Sex of those fatal to males than to females; for whereas in the population females existed in the proportion of about 90 to 100 males, they died of phthisis in 1880 in as low a proportion as 83, and in the previous four years in the proportion of only 74, to 100 males. It is possible, however, that males at the phthisical ages bore a higher proportion to the total number of males living in the colony than females at those ages bore to the total number of females.

588. Of the Chinese who died in Victoria in 1880, 25, or 19 per Phthisis cent., fell victims to phthisis. Of those of all nationalities who died, among Chinese. the proportion from this complaint was 10 per cent.; but it must be remembered that the Chinese in Victoria, with the exception of a very small number of children and old people, are all at the ages at which attacks of phthisis are most common.

589. Eleven deaths of Aborigines in 1880 were set down to phthisis, Phthisis among or 42 per cent. of the whole number recorded. Mr. Henry Jennings, ^{among} Aborigines. Vice-Chairman of the Board for the Protection of the Aborigines, in his report dated 1st July 1879,* says-"Lung disease" (with which he probably includes phthisis) "is the chief cause of the death of the Aborigines, who, when once affected, very seldom recover;" and Mr. Richard Bennet, in an article entitled Some Account of Central Australia, † says, with reference to the Australian Aborigines generally-"From my experience among the blacks, I believe nine-tenths of them die of consumption."

590. The rate of mortality from phthisis in Victoria would appear, Phthisis in by the calculations in the following table, to have been, over a series of years, slightly above that in Queensland, and much higher than in any other of the Australasian colonies. It will be observed that the figures of the other colonies in the several years exhibit more variation than those of Victoria, also that Queensland is the only colony besides Victoria in which the rate in any of the years exceeded 13 per 10,000 ‡ :---

Australasian colonies.

^{See Fifteenth Report of the Board, Parliamentary Paper No. 68, Session 1879.} *See Victorian Review* for April 1880, p. 934.
It is pointed out by the Registrar-General of Queensland, in his 19th Annual Report, that the death rate from phthisis in that colony is considerably swelled by the prevalence of the disease amongst the Polynesians.

			N	umber of Dear	ths from Phthisis	•	
Yea	ır.	Total.	Per 10,000 Persons Living.	Total.	Per 10,000 Persons Living.	Total.	Per 10,000 Persons Living.
	VICTORIA.		ORIA.	NEW SOL	TH WALES.	QUEE	NSLAND.
1873		945	12.34	•••		145	10.35
1874		1,011	13.00			163	10.21
1875	•••	1,027	13.04	614	10.31	228	13.22
1876	•••	1,010	12.68	616	9.96	260	14.12
1877	•••	1,088	13.46	597	9.24	225	11.53
1878		1,124	13.68	652	9.62	263	12.72
1879	•••	1,058	12.69	746	10.45	281	13.12
Tota	al	7,263	12.99	3,225	9.91	1,565	12.34
		South A	USTRALIA.	TASI	IANIA.	New Z	EALAND.
1873	•••	153	7.84	115	11.10	206	7.16
1874		179	8.89	101	9.69	270	8.47
1875	•••	209	10.07	114	10:97	339	9.45
1876		226	10.36	102	9.75	307	7.92
1877	•••	203	8.78	127	11.95	326	7.98
1878	•••	267	11.00	115	10.60	326	7.73
1879	•••	271	10.66	90	8.09	399	8.90
Tota	ul	1,508	9.72	764	10.29	2,173	8.26

DEATHS FROM PHTHISIS IN AUSTRALASIAN COLONIES, 1873 TO 1879.

Local diseases.

591. The death rate under Class III., local diseases, was somewhat below the average. The decrease occurred in deaths from diseases of the nervous, digestive, generative, locomotive, and integumentary systems, but, on the other hand, as in the two previous years, a more than average mortality resulted from diseases of the circulatory, respiratory, and urinary systems. Most deaths in this class have usually been caused by complaints of the brain and nerves, but in the year under review these were exceeded by those from affections of the organs of respiration, in which are included bronchitis, pneumonia, and congestion of the lungs, which together caused 1,321 deaths, and stood sixth, seventh, and seventeenth respectively in the list of causes of death.* In 1880, as in 1879, the death rate from urinary diseases was half as high again as the average, and even exceeded the rate in England and The most fatal complaint under this head is nephria (Bright's Wales. disease), which, in the past year, caused 107 deaths.

Developmental diseases. 592. Under Class IV., developmental diseases, the death rate from those peculiar to children, Order 1, and from diseases of nutrition, which are also those of children chiefly, Order 4, was much below the average. Vital Statistics.

The death rate from those peculiar to adults, Order 2, was slightly below the average, but the death rate from old age, Order 3, which has for some years past been increasing, was considerably above the average. The increased death rate from old age is easily accounted for by the circumstance that those remaining in the colony of the large number of immigrants who arrived at or about the times of the early gold discoveries are gradually reaching the age when they may be expected to die off. Premature birth-the principal cause of death under Order 1-caused 326 deaths in 1880, which number gives a proportion of over 10 per cent. of the total deaths under 1 year, and amounts to nearly $1_{\frac{1}{4}}$ per cent. of the total births recorded. The principal diseases under Orders 2 and 4-childbirth and atrophy-will be referred to shortly.*

593. Deaths under the head of atrophy and debility, although always Atrophy and numerous, were in 1880, as in the four previous years, below the average. The mortality under this head is almost entirely confined to young children and infants-thus, of the 693 set down thereto in 1880, 618 were under 5 years, 564 were under 1 year, and 281 were under 1 month of age. It is probable, however, that the causes of deathamongst children are too often loosely given, and that sufficient pains are not taken to ascertain the primary disease. As a knowledge of the causes of death in childhood is a matter of extreme importance, it is to be desired that medical men would, where possible, define these deaths more accurately. The following are the numbers of both sexes recorded as having died from atrophy and debility in each of the fourteen years ended with 1880 :---

Year	•	Males.	Females.	Total.	Year.	Males.	Females.	Total.
1867		399	347	746	1876	344	305	649
1868		337	328	665	1877	• 344	304	648
1869		386	337	723	1878	389	311	700
1870		422	368	790	1879	407	304	711
1871		368	311	679	1880	369	324	693
1872		354	338	692				1
1873		378	336	714			·	
1874		402	337	739	Total in four-	5,312	4,599	9,911
1875	•••	413	349	762	teen years		-	

DEATHS FROM ATROPHY AND DEBILITY, 1867 TO 1880.

594. Notwithstanding the proportions of the sexes of persons at sex of those ages to be affected by atrophy and debility were about equal, it will be who died of atrophy, observed that in every one of the years more males died than females. During the whole period of fourteen years, 90 females died of these complaints to every 100 males.

* See next paragraph, and paragraph 612 post.

debility.

åtc.

Violent deaths. 595. Deaths from external causes, Class V., although still much higher in proportion to the population than in England and Wales, were in 1880 much below the average. Of the 818 violent deaths recorded in Victoria during that year, 680, or 83 per cent., were ascribed to accident; 19, or 2 per cent., to homicide; 118, or 15 per cent., to suicide; and 1 to execution. Deaths from accidents were formerly more numerous than those from any single disease, but in 1880 they were less than the deaths caused by either phthisis or atrophy; 39 per cent. of these deaths were due to fractures, and 28 per cent. to drowning. Homicides were below, but suicides were above, the average; only thrice in the last fourteen years did the number of the latter exceed 100, viz., in 1876, 1879, and in the year under review.

Violent deaths in detail. 596. The following table shows the number of deaths and the exact modes of death under the heads of accident and suicide, also the number of deaths from homicide and execution, during 1880 and the previous decenniad, the sexes of those who died being distinguished :---

Contra of Death		Year 1880.		Ten Y	ears: 1870 to	1879.
Causes of Death.	Males.	Females.	Total.	Males.	Females.	Total.
Accidents :						
Fractures and contusions	247	22	269	2,942	241	3,183
Gunshot wounds	12	1	13	221	36	257
Cuts, stabs, &c	11	2	13	()	50	201
Burns and scalds	37	47	84	367	506	873
Sunstroke	8	3	11	154	59	213
Lightning	3		3	22	3	25
Poison	9	10	19	116	62	178
Snake, insect—bite	2		2	25	13	38
Drowning	147	45	192	1,624	386	2,010
Suffocation	39	18	57	437	219	656
Others	13	4	17	93	28	121
Total	528	152	680	6,001	1,553	7,554
Homicide	13*	6	19	125	75	200
Suicide :	·					,
Gunshot wounds	10		. 10	64		64
Cuts, stabs, &c.	23	1	24	155	21	176
Poison	15	1	16	146	47	193
Drowning	21	6	27	142	69	211
Hanging	36	4	40	209	19	228
Otherwise	•••	1	1	31	4	35
Total	105	13	118	747	160	90
Execution	. 1			23	•••	23
Grand Total	647	171	818	6,896	1,788	8,684

VIOLENT DEATHS, 1870 TO 1880.

* Including three outlaws who were killed by the police.

597. During the eleven years ended with 1880, 76,006 males and violent 56,623 females died of specified causes; and it results from these figures, proportion and those in the foregoing table, that, of the males, 1 in every 10 died a deaths. violent death; 1 in every 12 died of an accident; 1 in every 551 was a victim to homicide; 1 in every 89 committed suicide; and 1 in every 3,167 was executed. Of the females, 1 in every 29 died a violent death; 1 in every 33 died of an accident; 1 in every 699 died by the hand of another; 1 in every 327 committed suicide; but, happily, not one was executed.

598. Males are much more subject to violent deaths than females. Violent Of those who so died in 1880, 647, or 79 per cent., belonged to the males and male, and 171, or 21 per cent., to the female sex.

599. Omitting fractions, it may be roughly stated that, where 1 female Violent dies a violent death in Victoria, 4 males die violent deaths; where 1 proportion female dies of an accident, 4 males die of accidents; where 1 female is females. murdered, about 2 males are murdered; where 1 female commits suicide, 4 males do so. Only 1 woman has been executed in the colony since its first settlement; but in the eleven years to which reference is made in the table 24 males were executed.

600. The only violent deaths which habitually affect females more Burns and scalds. than males are those resulting from burns and scalds. All other circumstances which occasion sudden deaths bear more hardly upon males than upon females.

601. One hundred and eighteen persons took their own lives in 1880, Suicidal deaths. and 108 in the previous year. During the ten years ended with 1879 the mean annual number of deaths by suicide was 91.

602. Hanging is the most common mode by which men commit Modes of committing suicide, cutting or stabbing the next, drowning and taking poison with suicide. almost equal frequency the next, shooting the next. Females most frequently take their lives by drowning, next so by taking poison, next by stabbing or hanging, and not once in the 173 cases named in the table by shooting.

603. Suicide frequently occurs amongst the Chinese. Five men of Suicides of Chinese. this race committed that act in 1880, viz., 1 by drowning and the The total number of Chinese males in the remainder by hanging. colony was ascertained at the recent census to be 11,871; so that those who committed suicide during the year were in the proportion of about 4 to every 10,000.

604. According to the results in the following table it would appear suicides in Australthat, in proportion to population, suicide is more common in Victoria asian colonies.

265

deaths of females.

deaths : of males and

than in any other Australasian colony except Queensland. It should, however, be stated that the death records frequently do not upon the surface show that the death has been suicidal, and close examination, with sometimes further enquiry, is therefore necessary to determine that fact. It is hence likely that the full extent to which suicide prevails in some of the colonies is not ascertained. The following are the suicides and their proportion to every 10,000 of the population during the seven years ended with 1879 recorded in all the Australasian colonies except Western Australia :---

			נ	Number of Dea	ths from Suicide	•	* * * * * * *	
Yea	ar.	Total.	Per 10,000 Persons Living.	Total.	Per 10,000 Persons Living.	Total.	Per 10,000 Persons Living.	
	7		ORIA.	NEW SOUTH WALES.		QUEE	NSLAND.	
1873		97	1.27	41	•75	22	1.57	
1874		97	$1 \cdot 25$	64	1.12	10	•64	
1875		91	$1 \cdot 16$	55	•92	23	1.33	
1876		100	1.26	61	•99	24	1.30	
1877		92	1.14	66	1.02	27	1.38	
1878		87	1.06	48	•71	29	1.40	
1879		108	1.30	62	•86	40	1.87	
Tota	al	672	1.20	397	•91	175	1.38	
		South A	USTRALIA.	TASI	MANIA.	NEW ZEALAND.		
1873		10	•51	6	•58	20	•70	
1874	•••	22	1.09	6	•58	20	•63	
1875		24	1.15	6	•58	29	•81	
1876	•••	15	•69	6	•57	42	1.08	
1877		. 17	•73	10	•94	32	•78	
1878		18	•74	8	•74	37	•88	
1879	•••	18	•71	5	•45	42	•94	
Tota	al	124	•80	47	•63	222	•84	

DEATHS FROM	SUICIDE IN AUSTRALASIA	IN COLONIES,
	1873 то 1879.	

Proportion of suicides in different colonies.

605. It will be observed that, according to the records, the suicides which take place annually in Victoria and Queensland are almost invariably above 1 per 10,000 persons living, but those which take place in the other colonies are generally below that proportion, which indeed was not once reached in Tasmania, only once in New Zealand, and only twice in New South Wales and South Australia during the seven years named in the table.

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Vital Statistics.

606. It will be readily believed that violent deaths are not so frequent violent in Victoria now as in the early days of the gold discoveries. By the following figures, however, which, with the exception of those in the first line, have been extracted from the appendix to the 40th Report of the Registrar-General of England, such deaths appear still to be more common there than in any European country. Fatal accidents in Victoria seem to occur with more frequency than in any of the countries, and suicides than in any except Switzerland. Homicide, relatively to population, appears to be about equal to the same circumstance in Sweden and Prussia, but to be less rife than in Switzerland, Finland, Bavaria, or Italy. It must be remembered, however, that the proportions in the table have been calculated in relation to the events occurring in one year only, and might not hold good if those in a series of years were taken into account :---

DEATH RATE FROM VIOLENCE IN VICTORIA AND IN CERTAIN **EUROPEAN COUNTRIES.***

	Propor	Proportion to 100,000 Living of Deaths from-						
Countries.	Violence of all	Accident and						
	kinds.	Negligence.	Homicide.	Suicide.				
		•	· · · /	• • • • • • • • • • • • • • • • • • •				
Victoria	96.2	80.0	2•2	13.9				
tana ana ana ana ana ana ana ana ana ana	• • •	.	ć	2 A 1				
Switzerland	92 • 4	68·9	3.9	19.6				
United Kingdom	77.5	69·7	1•6	6.3				
England and Wales	75.7	66 · 7	1.7	7.3				
Scotland	72.0	68.2	•1	3.7				
Ireland	39•1	35.3	1.7	2.1				
Norway	72.4	64.1	1.3	7.0				
Finland	62.6	55.7	3.2	3.4				
Sweden	61.9	50.7	2:0	$9 \cdot 2$				
Prussia	61.6	46.1	2•1	13.4				
Bavaria	51.9	37.7	3.9	10.3				
Belgium	48.3	38.5	1.6	$8 \cdot 2$				
Austria	47.1			11.3				
Italy	24.0	14.9	5.4	3.7				

607. The following table gives a statement of the number of cases of Railway death and injury from accidents on the Government lines of railway during the twenty-two years ended with 1880, embracing the whole period of the existence of railways in Victoria :----

accidents.

* The proportions have been calculated upon the occurrences in Norway during 1873, in Scotland during 1875, in Finland during 1874, in Prussia during 1875, in Victoria during 1880, and in other countries during 1876.

death<mark>s in</mark>

European countries.

			Passengers	5.	De	ts of the R partment of Contractors	rof		Others.	
Year.	Total Number.	From causes beyond their own control.	From their own miscon- duct or want of caution.	Total.	From causes beyond their own control.	From their own miscon- duct or want of caution.	Total.	At crossings.	Trespassers.	Miscellane- ous.
	•	•	PERS	ons Ki	LLED.	•				
1859 to 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1878 1878 1879 1870 1871 1875 1876 1878 1879 1870 1871 1872 1873 1874 1875 1878 1880 Total killed	37 4 2 6 3 10 11 23 22 16 21 18 	···· ···· ···· ···· ···· ····	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	3 4 3 3 1 14	$ \begin{array}{c} 19\\2\\1\\\\6\\10\\10\\7\\8\\7\\-72\end{array} $	22 2 1 2 4 6 13 13 7 9 7 7	$ \begin{array}{c c} 1 \\ \\ \\ \\ 1 \\ \\ 2 \\ \\ 2 \\ 3 \\ \hline 11 \end{array} $	$ \begin{array}{c} 14\\ 1\\ 2\\ 3\\\\ 4\\ 6\\ 8\\ 6\\ 9\\ 6\\ 6\\ 64\\ \end{array} $	1 2 1 1 2 1 2 1 1 2 1 1
			Per	sons In	JURED.]				·
1859 to 1868 1869 1870 1871 1872 1873 1874	84 4 3 32 1 1	22 28 	2 2 	24 30 	5 4 1 	45 1 1 1 1 1	50 4 1 2 1 1	1	7 1 	2
1875 1876 1877 1878 1879 1880	8 27 49 40 45 20	 1 36 22 7 5	 1 3 2 	 2 36 25 9 5	6 4 3 6 11 1	$egin{array}{cccc} 1 \\ 15 \\ 5 \\ 5 \\ 20 \\ 7 \end{array}$	7 19 8 11 31 8	 1 3 2	1 5 2 1 1 3	 1 2 3 1 2
Total injured	314	121	10	131	41	102	143	7	21	12

DEATHS AND INJURIES FROM RAILWAY ACCIDENTS, 1859 TO 1880.*

Railway passengers and servants killed

608. It will be observed that, in the whole period of twenty-two years, exclusive of accidents at crossings or to trespassers, 173 persons and injured. were killed and 314 were injured on the State lines of railway, and that 73 of the former and 112 of the latter met their death or injury in consequence of their own misconduct or want of caution. Only 1 passenger was killed throughout the period, but as many as 86 railway or con-

^{*} As this table does not extend beyond 1880, the particulars of the casualties resulting from the railway accident of the 30th August 1881 are not included. On that occasion, portion of the Brighton express train got off the line near Jolimont, when three carriages were precipitated over a low embankment, causing the loss of four lives, and injuries of a more or less serious character to about thirty other passengers.

Vital Statistics.

tractors' servants were killed; the former, and all but 14 of the latter, having been so in consequence of their own carelessness. The passengers injured numbered 131, and the railway servants 22 more; as many as 102 of the latter, but only 10 of the former, suffered from their own At crossings only 11 persons were killed and 7 injured, which action. must be considered very small numbers, taking into account the many level crossings on the lines. As many as 64 trespassers were killed; these no doubt included persons who committed suicide by placing themselves in the way of trains. The trespassers injured numbered less than a third of those killed.

609. In the seven years ended with 1880, embracing the whole Mining period the Regulation of Mines Statute 1873 (37 Vict. No. 480) has been in operation, 430 persons lost their lives, and 1,093 persons were injured from accidents connected with mining operations. The following were the numbers in each year and their proportion to the number of miners at work :----

T 7 a		Average number of	Number of Persons-			Numbers per 1,000 Miners at work—			
Year.	•	Miners at work.	Killed.	Injured.	Total.	Killed.	Injured.	Total.	
		• ·			······			, ·	
1874		46,512	90	245	335	1.93	5.26	7 · 2 0	
1875		42,058	···83	217	300	1.97	5.15	7.13	
1876	•••	41,531	55	··170	225	1.32	4.10	5.42	
1877		38,860	64	154	218	1.65	3.96	5.61	
1878	•••	37,212	40	106	146	1.07	2.85	3.95	
1879	•••	37,195	48	112	160	1.29	3.01	4.30	
1880	••• ,	38,076	50	89	139	1.32	2.34	3.62	
Means	•••	40,206	61	156	217	1.51	3.88	5.40	

DEATHS AND INJURIES FROM MINING ACCIDENTS, 1874 TO 1880.

610. On comparing the numbers in the early with those in the later Diminution in mining years, it is satisfactory to note a considerable diminution in the cases accidents. of death and injury from mining accidents. Not only have the actual numbers decreased, but their proportion to the miners at work is much In the seven years to which reference is made, 1 miner in smaller. every 659 lost his life, whilst in 1880 this proportion had fallen to 1 in Both proportions contrast favorably with the deaths from mining 762. accidents in Great Britain and Ireland, where, according to the report of Her Majesty's Inspectors of Mines for 1879, 1 person in every 490 employed in and about mines lost his life by accident during the year. This is exclusive of accidents in coal mines, in respect to which the proportion of fatal accidents is much higher.

accidents.

Victorian Year-Book, 1880-81.

Causes of mining accidents. 611. The immediate causes of the mining accidents from which death or injury resulted in Victoria during the same seven years were as follow :—

Notion of Assidant	T ¥1		Nur	nber of Perso	ons
Nature of Accident.	•	х - х-	Killed.	Injured.	Total
Fall of earth or rock underground			181	331	512
", ", on surface			66	61	127
" materials down shafts			20	78	98
", ", " passes or ju	mp-1105			16	16
Falling down shafts			70	93	163
", ", winzes or shoots	•••		8	35	43
" and slipping underground				18	18
ot surface	•••			14	$\tilde{14}$
Cage accidents	•••	•••	19	53	$\overline{72}$
Timber accidents	•••		9	18	27
Fruck accidents	•••	•••	•	22	$\frac{-1}{22}$
Machinery in motion	•••	•••	10	49	
Explosion of blasts—gunpowder	•••	•••	10	82	93
annaotton		••••	1	10	11
<i>d</i> unamita	•••	•••	- 1	4	5
", ", dynamite … " " lithofracteur	•••	•••	5	11	16
" " " nockburster…	•••	•••	J J	2	10
		•••	•••		2 20
" " other explosiv	es, or not na	amea	3		
" explosives not blasts	•••	•••	3	20	23
" boilers	•••	•••	•••	5	5
", fire damp	•••	•••	1	19	20
Foul air	***	•••	3	•••	3
Jndescribed	•••	•••	19	135	154
Total	•••		430	1,093	1,523

CAUSES OF MINING ACCIDENTS, 1874 TO 1880.

Deaths in childbed.

612. The death rate from a given complaint is usually ascertained by comparing the number of deaths from it with the number of persons living, but the death rate of women in childbed is better realized by comparing the number of deaths of parturient women with the total number of births. Such deaths are classified in two ways. If the death is supposed to occur merely from the consequences of childbearing without specific disease, it is set down as of Childbirth, Class IV., Order 2; but, if it should arise from puerperal fever, it is placed under the head of Metria, Class I., Order 1. The deaths from. child-bearing were unusually numerous in proportion to the births during the seven years ended with 1878; but, in 1879, they were only slightly above, and, in 1880, were below the average. The following are the deaths and death rate from these complaints during the last seventeen years :---

	V		Number of	Mothers who	died of—	Deaths of Mothers
	Year.		Childbirth.	Metria.	Total.	to every 10,000 Children Born Alive
1864	•• `		100	21	121	47.12
1865			99	24	123	47.46
1866	•••		112	26	138	55.18
1867		••	117	20	137	53.51
1868			110	23	133	48.82
1869	•••	•••	105	18	123	47.23
1870	•••		115	9	124	45.67
1871	•••	•••	90	12	102	37.25
1872	•••		123	16	139	50.80
1873	•••		127	44	171	60.85
1874	•••		142	109	251	93.66
1875	•••		154	83	237	88.70
1876	•••	•••	117	48	165	61.64
1877	•••	•••	131	42	173	66.21
1878		•••	149	49	198	74.49
1879	•••	•••	123	38	161	59.99
1880	•••	•••	111	20	131	50.09
Total in s	eventeen	years	2,025	602	2,627	58.20

DEATHS OF WOMEN IN CHILDBIRTH, 1864 TO 1880.

613. The proportion of women dying in childbed during the whole Deaths in period of seventeen years was 1 to 172 births, but in 1880 the proportion was 1 to every 200 births. In 1879, the proportion was 1 to every 166 Kingdom. births; in 1878, 1 to every 134 births; in 1877, 1 to every 150 births; and in 1876, 1 to every 162 births; in 1875, 1 to every 113 births; and in 1874, 1 to every 107 births. All these proportions, except those for 1880, are higher than those in England and Wales, where, in the twentyeight years ended with 1874, 200 births occurred to each death of a mother.* In Scotland 1 woman is stated to have died in childbirth to every 207 births during 1873, and to every 149 in 1874; and in Ireland, during the ten years, 1869-78, 1 to every 151 births.

614. In the Melbourne Lying-in Hospital, during 1880, 586 women Deaths of were confined, and 532 infants were born alive. Six deaths of mothers occurred during or shortly after parturition. Thus 1 death of a mother occurred to every 98 deliveries, or to every 89 births. It should be mentioned, however, that maternity hospitals all over the world are subject to receive a worse class of cases than the average of those dealt with outside, women not unfrequently being brought in such a state as to render their recovery from the first almost hopeless; therefore, in all such institutions, the death rate of the inmates is higher than that which prevails amongst child-bearing women in the general population[†].

childbed in³ Victoria and

women in Lying-in Hospital.

^{*} For an exhaustive enquiry into the causes of death in childbirth, see Dr. Farr's letter published as an appendix to the 39th Annual Report of the Registrar-General, England, pages 241 to 251. † According to the report of the Lying-in Hospital for 1880, child-bearing was, in most cases where death occurred, complicated with some other disease. One patient is stated to have died of acute bronchitis, 1 of acute tuberculosis, and 1 of septicæmia; 1 was admitted in a dying condition suffering from rupture of the bladder, 1 who was convalescent died suddenly of heart disease, and 1 who was admitted whilst-suffering from typhoid fever died of cerebral effusion.

Deaths in childbed in Australasian colonies.

615. Deaths of lying-in women appear to be more common in Victoria than in any other Australasian colony. It should, however, be mentioned that the fact of a woman dying in childbed is not always at once discoverable from the death registers. Some medical men appear to endeavor to conceal the fact of their losing patients in this manner, and enter the cause of death as debility, exhaustion, blood-poisoning, phlebitis, peritonitis, &c., omitting to state that these circumstances were consequent upon child-bearing until specially asked whether this The causes of death of females at child-bearing ages was the case. should be carefully scrutinized, and enquiries made respecting all entries It is questionable whether in some of the other which appear doubtful. colonies this scrutiny is as complete as it is in Victoria, and hence it is probable that the full extent of the mortality in childbirth occurring in The following table contains a statement such colonies is not known. of the deaths recorded as having occurred from childbirth and metria in all the Australasian colonies except Western Australia during the seven years ended with 1879, and the proportion of such deaths to every 10,000 children born alive in each colony :---

DEATHS FROM CHILDBIRTH AND METRIA IN AUSTRALASIAN COLONIES, 1873 TO 1879.

Year.	Total.	Per 10,000 Children Born Alive.	Total.	Per 10,000 Children Born Alive.	Total.	Per 10,000 Children Born Alive			
, 14, 1 , 1 , 1	VICTORIA.		NEW SOUTH WALES.		QUEENSLAND.				
1873	171	60.85		· · · ·	23	40.21			
1874	251	93.66			33	51.70			
1875	237	88.70	149	66·14	37	55.17			
1876	165	61.64	186	79.84	43	62 29			
1877	173	66.51	113	47.38	53	73.93			
1878	198	74.49	103	40.67	46	62.19			
1879	161	59.99	90	33.42	38	48.28			
Total	1,356	72.20	641	52.57	273	56.70			
	South Australia.		TASMANIA.		NEW ZEALAND.				
873	22	30.96	26	85.30	52	46.34			
874	- 38	49.38	20	64.58	74	57.61			
	54	72.89	32	103.06	93	64.41			
	49	59.58	20	63 [.] 51	74	45.77			
877	45	52.08	25	77.86	74	43·90			
	41	44.17	16	45.69	85	47.83			
.879	50	50.49	11	30:86	81	44.83			
Total	299	51.32	150	66.15	533	49.64			

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616. There are 34 general hospitals in Victoria, 8 of which are also Sickness and benevolent asylums. The total number of cases of sickness treated in general these institutions during 1880 was 15,120, and the number of deaths In 1879, the cases of sickness treated numbered 14,984, was 1,413. and the deaths 1,452. There was thus 1 death to every 10.7 cases of sickness treated in hospitals during 1880, as against 1 death to every 10.3 cases of sickness treated therein during the previous year.

617. The following table gives a list of the various hospitals through- Death rate out the colony, also a statement of the number of cases treated, the hospital. number of deaths which occurred in 1880, and the proportion of deaths to cases in each hospital during that and the previous year :---

Year 1880. Percentage of Mortality to Name of Hospital. Percentage of Number of Number of Cases treated. Mortality to Cases treated. 1879. Deaths. Cases treated. Alexandra 18 7.10 11.42Amherst 219 25 4.93 5.54 Ararat 28414 ... 11.16 10.12 878 **Ballarat** 98 •••• 7.10 498 7.43 Beechworth 37 Belfast 531 1.89 8.89 • • • ... 1,277 119 9.32 10.95Bendigo ... Castlemaine 741 47 6·34 9.20 • • • ... 9.75 Clunes 195 19 8.71 2276·17 8.71 Creswick 14 Daylesford 194 2.58 8.67 5 6·04 10.68Dunolly 26516 • • • 963 6.85 10.22Geelong 66 Hamilton 564 5.14 29 5.67... • • • 12.64 12.36 Heathcote 87 11 219 7.76 8.97 Horsham 17 ••• ... Inglewood 325 $\mathbf{23}$ 7:084.64 ... ••• 10.8714.38138 Kilmore 15 ••• . . . 525 27 5.146.80 Kyneton ... Maldon 51 8 .15.69 10.91 ... Mansfield 113 3 2.65 5.56••• 356 8.99 6.21 Maryborough 32 ••• ... 573 13.99 11.99 4,096 Melbourne ••• Melbourne (Alfred) 1,090 756.889.452.76 6.01 Melbourne (Homcopathic) 145 4 6.86 6.45 20414 Mooroopna ... 7.49 10.63**Pleasant Creek** 307 $\mathbf{23}$... 4.60 11.11 Portland 87 4 ... 218 22 10.09 10.38Sale • • • 9.90 20220 11.17 St. Arnaud ... 5.22Swan Hill 115 6 6.50 Wangaratta 240 30 12.506.97 ... Warrnambool ... 134 11 8.21 6.35 ... 92 5 5.434.07 Wood's Point 15,120 1,413 9.35 9.69 Total

SICKNESS AND MORTALITY IN GENERAL HOSPITALS.

deaths in hospitals.

 $\mathbf{273}$

in each

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Highest and lowest

618. In proportion to the cases treated, the greatest mortality occurred death rates. in the Maldon and Melbourne Hospitals; and, with the exception of the Alexandra Hospital, where no deaths took place, either in 1879 or 1880, the least in the Belfast, Daylesford, Mansfield, and Melbourne Homeopathic Hospitals. In 1879 the rate of mortality was highest in the Kilmore, Heathcote, and Melbourne Hospitals; and, with the exception of the Alexandra Hospital, lowest in the Wood's Point and Inglewood Hospitals.

Sickness and deaths in hospital for women.

619. The patients treated in the Hospital for Diseases of Women and Children attached to the Lying-in Hospital numbered 348 in 1879, and 275 in 1880. The deaths in the same institution numbered 13 in the former, and 15 in the latter year. Therefore, 1 patient in 27 died in 1879, and 1 in 18 in 1880.

Deaths of mothers in Lying-in Hospital.

Deaths of infants in Lying-in Hospital

Sickness and deaths in children's hospital.

Sickness and deaths in benevolent asylums.

Sickness and deaths in Home.

Sickness and deaths in orphan asylums.

620. In the Melbourne Lying-in Hospital 638 women were confined in 1879, and 586 in 1880. Nine died in the former year, and 6 in the Thus, 1 woman in 71 died in 1879, and 1 woman in 98 in 1880. latter. From the founding of the institution to the end of 1880, 9,188 women were accouched therein, of whom 119 died, or 1 death to every 77 confinements.*

621. The infants born alive in the Lying-in Hospital numbered 602 in 1879 and 532 in 1880, and of these, 47 in the former and 30 in the latter year died before leaving the institution; thus 1 infant in 13 died in 1879 and 1 infant in 18 in 1880.†

622. In the Melbourne Hospital for Sick Children 389 cases were treated, and 25 deaths occurred, in 1879; 438 cases were treated, and These numbers furnish proportions of 1 36 deaths occurred, in 1880. death to every 16 patients in the former, and 1 death to every 12 patients in the latter year.

623. Cases of sickness in benevolent asylums numbered 2,688 in 1879, and 1,178 in 1880; deaths numbered 176 and 141. The deaths were thus to the cases treated in the proportion of 1 to 15 in 1879, and of 1 to 8 in 1880.

624. In the Melbourne Immigrants' Home the cases of sickness in deaths in Immigrants' 1879 amounted to 959, and the deaths to 76, or 1 death to every 13 cases In 1880 the cases of sickness in this institution numbered of sickness. 623, and the deaths 84, or 1 death to every 7 cases of sickness.

> 625. In 1879 the cases of sickness in orphan asylums numbered 204, In 1880 these numbers were 293 and 5 respecand the deaths 3. Thus, in 1879, 1 death occurred to every 68 cases of sickness, tively. and, in 1880, 1 death to every 59 cases of sickness.

626. In hospitals for the insane during 1879 the cases of sickness Sickness and deaths in numbered 2,011, and during 1880 they numbered 2,298. The deaths lunatic asylums. amounted to 225 at the former period, and 221 at the latter, or an average of 1 death to every 9 cases of sickness in 1879, and 1 to every 10 cases in 1880.

627. In gaols and penal establishments 5,473 cases of sickness Sickness and deaths in occurred in 1879, and 5,485 in 1880. The deaths in these two years gaols. respectively were 38 and 43. Thus, 1 death occurred to every 144 cases in 1879, and 1 death to every 128 cases in 1880. The proportions of deaths to cases of sickness are smaller in these than in any other public institutions; but it is also probable that the cases of sickness dealt with are, on the average, of a lighter character than those treated in the other institutions.

628. Altogether the number of deaths in penal or charitable institu- Deaths in tions in 1880 was 2,047, or 1 to every 6 deaths which took place in institutions. Victoria during the year. The deaths in such institutions were in the three previous years in the same proportion as in 1880, in 1876 in that of 1 to every $6\frac{1}{2}$, in 1875 in that of 1 to every $7\frac{1}{3}$, and in 1874 and 1873 in that of 1 to every 6 deaths which took place in the whole The following are the names of the institutions and the colony. number of deaths which occurred in each during 1880 :----

DEATHS IN PUBLIC INSTITUTIONS, 1880.

Number of De	eaths.	Number of Deaths.				
General hospitals 1,41	3 Hospitals for the insane	221				
Hospital for Diseases of	Female refuges					
Women and Children 1	5 Industrial and reform	natory				
	6* schools	25				
Hospital for Sick Children 3	6 Gaols	40				
Benevolent asylums 14	1 Penal establishments	3				
Melbourne Immigrants' Home 84	4					
Orphan asylums	5 Total	2,047				
Blind asylum	3	<u> </u>				
Eye and Ear Hospital	1					
•	1					

Note.-In 1880 no death occurred in the Deaf and Dumb Asylum.

629. In England and Wales during 1880, 1 out of every 10 deaths Deaths in registered occurred in a work-house, hospital, or lunatic asylum. Of institutions in England. such deaths, 65 per cent. occurred in the first of these institutions, 26 per cent. in the second, and 9 per cent. in the third.

630. The number of cases of successful vaccination in 1880 was vaccinations. 19,132; and, as the number of births was 26,148, it appears that 73 per cent. of the children born were vaccinated. Part of the remainder are accounted for by death-1,589, or 6 per cent. of those born, having died before they were 3 months old, and 2,193, or 8 per cent., before they were 6 months old. The vaccinations amounted in 1880 to 73 per

^{*} This includes the deaths of 30 infants born in the institution.

[†] This includes the deaths of 21 children of inmates of the Female Refuge, Madeline street.

cent. of the births, in 1879 and 1878 to 82 per cent., in 1877 to 87 per cent., in 1876 to 80 per cent., in 1875 to 82 per cent., in 1874 to 83 per cent., and in 1873 to something less than 80 per cent.

631. The question as to the efficacy of vaccination in affording provaccination. tection against small-pox; as to the danger of conveyance of other diseases by vaccination; and as to the desirability of obtaining the lymph direct from the cow, was discussed in the Legislative Assembly of Victoria on the 17th June 1880, and in consequence the Central Board of Health published a memorandum* in which they showed that the evidence as to the protective efficacy of vaccination was simply overwhelming; that vaccination when properly performed cannot convey any disease except vaccinia; and that the vaccine lymph now in use has not deteriorated or become contaminated by its repeated transmission through the human body, therefore it is unnecessary to resort to the cow for a fresh supply.

Meteorological observa-

Memorandum on

632. The following are the results of meteorological observations tions, 1880. taken at different stations throughout the colony during 1880. These places are arranged in the table in the order of their altitude above the The last two are situated in the interior, but the level of the sea. The times at which the observations for others are on the sea-board. mean temperature and mean atmospheric pressure are obtained differ at the various stations; but a correction is applied in order to make the results equivalent to those which would be derived from hourly observations taken throughout the day and night :----

Stations.	Height above		Temperature in the Shade.					
Stations.	Sea-level.	Max	. 1	Min.	Mean.			
Portland Melbourne Cape Otway Wilson's Promontory	feet. 37 [.] 0 91 [.] 3 270 [.] 0 300 [.] 0	0 108*0 106*3 104*0 96*0	5	o 32 29 38 40	o 57·4 57·8 55·7 56·3 58·3 56·3			
Sandhurst Ballarat	758·0 1,438·0	106·! 108·!	5 -	32 28				
Stations.	Mean Atmospheric Pressure.	Days on which Rain fell.	Amount of Rainfall.	Mean Relative Humidity.	Amount of Cloud.			
Portland Melbourne Cape Otway Wilson's Promontory	inches. 29·976 29·920 29·724 29·587	No. 194 147 160 201	inches. 34·20 28·48 36·64 56·60	0-1. ·737 ·717 ·883 ·761	$ \begin{array}{c c} 0 - 10. \\ 4 \cdot 0 \\ 6 \cdot 0 \\ 8 \cdot 0 \\ 5 \cdot 8 \end{array} $			
Sandhurst Ballarat	29·208 28·501	100 132	22·39 29·34	·744 ·641	4·2 5·9			

2 2

METEOROLOGICAL OBSERVATIONS AT VARIOUS STATIONS, 1880.

* Parliamentary Paper No. 96, Session-1880-81.

633. The following are the results for Melbourne in each of the Meteorology in Melseventeen years ended with 1880:-----

METEOROLOGICAL OBSERVATIONS AT MELBOURNE.--RETURN FOR SEVENTEEN YEARS.

Veen	Temperature in the Shade.			Mean	Days	Amount	Mean	Mean
Year.	Max.	Min.	Mean.	Atmospheric Pressure.	on which Rain fell.	of Rainfall.	Relative Humidity.	Amount ofCloud.
	i o	0	0	inches.	No.	inches.	0-1.	0-10.
1864	96.6	30.2	57.1	29.94	144	27.40	•72	6.1
1865	103.4	3 0·9	56 [.] 5	29.94	119	15.94	•68	5.6
1866	108.2	28.0	57.8	29.95	107	22.41	•70	5.5
1867 🗌	108.4	29:7	57.7	. 29.92	133	25.79	•72	5.7
1868		27.4	57.1	29.98	120	18.27	•70	5.7
1869	108.4	27.0	57.2	29.94	129	24.59	.71	6.0
1870	109.0	29.6	57.4	29.93	129	33.76	•74	5.8
1871	106.0	32.1	57.7	29.93	125	30.17	.74	5.9
1872	103.3	32.2	57.6	29.92	136	32.52	•74	6.4
1873	102.4	30.2	58.0	29.94	134	25.61	•72	6.0
1874	102.7	29.3	56.6	29.93	134	28.10	•72	6.1
1875	110.4	31.1	56.6	29.89	158	32.87	•72	6·2
1876	110.7	29.0	57.0	29.93	134	24.04	•70	5.8
1877	100.7	31.0	56.2	29.99	124	24· 10	•70	5.8
1878	103.4	31.1	57.4	29.90	116	25.36	-71	6.0
1879	106.0	30.2	56.8	29.92	127	19.28	•71	5.8
1880	106.5	29 ·0	57.8	29.92	147	28.48	•72	6.0
Means	105.65	29.93	57.23	29.933	130	25.805	•715	5.9

(Observatory 91.3 feet above the Sea-level.)

634. It will be noticed that in 1880, according to observations taken Observations at the Melbourne Observatory, the maximum temperature was about a degree above, and the minimum temperature about a degree below, the mean of the maxima and minima in 17 years; that the mean temperature, the mean atmospheric pressure, the mean relative humidity, and the mean amount of cloud were all a fraction above the average of the same period; also that rain fell on 17 more days and $2\frac{2}{3}$ more inches of rain fell than the average annual number during the period.

635. During the period of 17 years a higher temperature than the Observations maximum of 1880 was experienced in seven, and a lower one than the minimum in three, different years; the mean temperature was equalled in one and exceeded in one year; in two previous years the mean atmospheric pressure was lower than in 1880; the number of days' rain was exceeded in one year, and the amount of rainfall in four years; the mean relative humidity was equalled in five and exceeded in three years; and the mean amount of cloud was equalled in three and exceeded in three years.

636. An extended account of the meteorology and climate of Victoria Meteorology elsewhere will be found in the Victorian Year-Book, 1874, paragraphs 54 to 95. treated on.

in 1880compared with 17-year means.

in 1880a nd

former years com-

pared.

bourne,1864 to 1880.