VICTORIAN YEAR-BOOK, 1906-7.

INTRODUCTORY REMARKS.

Records of early discoveries show a lamentable ignorance of the History of geography of the Southern and Indian Oceans, since the venturesome discoverers sailors who first attempted to explore these seas were not skilled in settlers. cartography, and their maps, or the maps plotted from their verbal narratives, were of necessity crude and inaccurate. A map published with the account of Frobisher's voyages in 1578 encircles the whole Southern Pole with a vast stretch of land, separated from South America by the Strait of Magellan, and stretching further north in those regions which we now know as Australia, indicating a belief and an assurance in the existence of our continent. It is an interesting fact that in Burton's Anatomy of Melancholy, published in 1621, references are made to this land as Terra Australis Incognita.

Frobisher reports that the Portuguese and Spaniards in their Frobisher, voyages to the East Indies saw and touched on the north edge of the southern continent. In 1526 the trading vessels of the former nation reached New Guinea, though their masters were unaware of the existence of the Strait which separates it from Australia. After the discovery of the sea route to India by Vasco da Gama in 1497, the Portuguese began to trade with the East Indies, and were followed by the Spaniards and Dutch, the latter largely replacing the Portuguese traders in the East.

In 1606 the Dutch Governor of the Moluccas, De Houtman, De Houtman despatched an exploring party, who surveyed the east coast of the Gulf of Carpentaria, but the report of Captain Jansen, the leader of the expedition, was unfavorable, and it was many years before the Dutch again visited this territory, which at the time they believed formed part of New Guinea.

De Quiros.

De Quiros, a Portuguese in the service of Spain, made strenuous efforts to reach the Great South Land, as he was convinced that the rumours concerning its existence were true. In December, 1605, he set sail to discover it, with Torres as captain of the second vessel of his small fleet, but his efforts proved unsuccessful. De Quiros may be regarded as the last of the Southern European explorers, whose work was now taken up by the Dutch.

Dutch exploration. In 1595 the Dutch East India Company was formed, with headquarters at Batavia, whence ten years later Jansen was sent on a voyage of discovery, when he surveyed the south coast of New Guinea, and the east coast of Cape York Peninsula, without, however, discovering the passage between the two.

Carstens and Poole. In 1623 Carstens coasted part of the northern shores, and again, in 1636, Poole followed the coast line of the whole of the Gulf of Carpentaria.

Van Diemen and Tasman. In 1642 Anthony Van Diemen, Governor of the Dutch East India Colonies, selected Abel Jansen Tasman to make explorations in the South Seas. On 24th November, 1642, the west coast of Tasmania was discovered. Rounding this and the south coast, Tasman entered Storm Bay and Frederick Henry Bay, where he hoisted the Dutch flag. Naming the locality Van Diemen's Land, he sailed eastwards, and discovered New Zealand, returning afterwards to Batavia. In the following year Tasman surveyed portions of the north and west coasts of Australia, from the Gulf of Carpentaria to Sharks Bay.

Dampier.

In January, 1688, New Holland (so named by the Dutch) was visited near Roebuck Bay by Dampier, the first Englishman who sighted our shores. The description of his voyages includes his opinions respecting Australia and the people he found there, as well as of its flora and fauna. He was selected in 1699 to make further exploration of the place, to ascertain whether the land was a continent or a group of islands. He visited Sharks Bay, coasting northwards 9,000 miles, and then returned to England. His unfavorable report concerning the country suspended British exploration for many years.

Cook

That our continent ever became a portion of the British Empire is due to the enterprise, skill, and courage of Captain James Cook. In 1768 the British Government sent a scientific expedition, under his command, to Tahiti, with permission to undertake exploration in the South Seas. Cook first visited New Zealand, and, sailing westward, land was sighted on 19th April, 1770, by Lieutenant Hicks, at a point which has since borne his name, on the Victorian coast. Cook sailed northwards, and, after seven or eight days on the water,

landed at Botany Bay, and further north at other places on the east coast, passed through Torres Strait, and, having thus demonstrated the fact that Australia was an island (although believed to be joined to Van Diemen's Land), returned home.

Cook's description of Botany Bay was so favorable that in 1787 Phillip. the British Government despatched Captain Arthur Phillip, in charge of a squadron of eleven vessels, to found a penal colony in Australia. Finding Botany Bay, which he entered on the 20th January following, unsuitable for settlement, he sailed northward to Port Jackson, where he formally took possession of the country on 26th January, 1788, in the name of His Majesty King George III.

The first landing effected in Victoria was in 1797, from a vessel Clarke. wrecked on Furneux Island, in Bass Strait. Mr. Clarke, the supercargo, and two sailors, out of a total of seventeen, reached Sydney overland, and these were probably the first white men who landed on Victorian shores

Notable discoveries by sea were afterwards made by Flinders, Flinders, Flinders, Bass, Grant, Murray, and others, the former of whom sailed through Grant, the strait separating Australia from Van Diemen's Land, and circumnavigated the latter island, thus demonstrating it to be an island. In 1802 Port Phillip Bay was discovered by Lieutenant Murray, sent from Sydney in the Lady Nelson, to survey the south coast.

In 1803 an attempt was made to colonize Victoria, then known as Collins. the territory of Port Phillip, by means of a convict colony, which, luckily, proved abortive. A penal expedition, under Captain Collins, arrived in Port Phillip Bay on 7th October. It consisted of nearly 400 persons, of whom over 300 were convicts. A sandy site, chosen at Sorrento, proved to be unsuitable for the colony, chiefly because of the scarcity of fresh water, and Collins sent out an exploring party in search of a better place. The hostility of the blacks, preventing any satisfactory land exploration, and stormy weather in the bay, precluding efficient observation, combined to produce a gloomy report; and Collins applied to his chief at Sydney for permission to remove to Van Diemen's Land. Governor King readily assented, and after three months of wretchedness in Port Phillip, the colony crossed Bass Strait, and founded the settlement at the Derwent. Among the few children who had accompanied their parents in this expedition was John Pascoe Fawkner, who, 32 years later, led a party to the Yarra, and assisted in the foundation of Melbourne.

Hume and Hovell.

In 1824, a young Australian-born explorer, Hamilton Hume, of Lake George, in company with Hovell, a sea captain, six convicts as servants, set out overland to found a settlement on the southern After accidents by flood and field, swimming rivers, climbing mountains, and hewing their way with difficulty through rough forest country, they reached the river which now separates Victoria from New South Wales, and which they called the Hume. much toil and many disappointments, they reached Corio Bay, near the site of the present town of Geelong. The expedition, having accomplished the object of their task, returned to Sydney. Westernport years later an expedition, under Captain Wright, settled at Westernport, Hovell, under the impression that it was an inlet of Westernport he and Hume had reached, accompanying it as guide. place, after a year's struggle for existence, was abandoned, and the

settlement withdrawn, lack of energy and general discontent being

the apparent causes of failure.

Settlement.

Sturt and Macleay, on

In 1829, Sturt and Macleay, with eight convicts, rowed down the Murray the Murrumbidgee, and reached the river which Hume and Hovell had crossed some years previously, and which Sturt, in ignorance of the fact that it was the same as that to which the name Hume was given, called the Murray. The party then continued their journey past the mouth of the Darling, the upper waters of which Sturt had himself previously discovered, until they reached the broad waters Unable to cross the bar which blocked the of Lake Alexandrina. passage to the open, they turned back, and, after a laborious and perilous journey, reached headquarters, having explored a thousand miles of new country, and navigated the greatest of Australian rivers.

Mitchell.

In 1836, Major Mitchell, Surveyor-General of New South Wales. with 25 convicts, followed the Lachlan and Lower Murrumbidgee, and having crossed the Murray, beheld, from the summit of Mount Hope, a wide extent of good pasture land. Holding his course southward, with a declination slightly to the west, he crossed the verdant plains past the mountain-range, which he called the Grampians, and reached the southern coast of Discovery Bay. At Portland the party met the Henty family, who had, two years previously, established a sheep and cattle station there for the convenience of whalers, who made Portland Bay a place of resort. The expedition followed a north-east course home. The name applied by Mitchell to that part of our State which he traversed was Australia Felix.

ortland Settlement.

Whilst these overland expeditions were being conducted toilsomely and with difficulty and danger, anxious eyes looked from Tasmania Whale and seal hunting prevailed in the across the narrow straits. waters of the Victorian coast, or on the rocky islets that studded them. As early as 1828 sealers had erected temporary dwellings upon suitable spots on the southern coast of Victoria. The principal traders were William Dutton, John Griffiths, and John and Charles Mills. The first-named of these, William Dutton, established a whaling station at Portland in 1832, and was followed a year later

Dutton.

by Edward Henty, who crossed in the Thistle, and with the servants, Henty. horses, cattle, and sheep, which he brought with him, became the first of that class of people who are now, to such a large extent, the backbone of our State, the agriculturists.

But it was the Bay of Port Phillip, after all, that was destined Port Phillip, settlement. to become the principal channel of the new district's commerce. Thither John Batman came in 1835, entering the Heads on 29th Batman. May in the Rebecca. After landing near Geelong, and with charac- Geelong. teristic acumen, ingratiating himself with the natives, he proceeded up the bay, and anchored off what is now Williamstown. ceeded, with fourteen well-armed men, along the banks of the Lower The Yarra. Yarra and Saltwater as far as the site of Sunbury, and the natives, friendly because of Batman's favour in the eyes of the Geelong natives, were ready to treat with him. The famous barter, afterwards declared informal, by which the natives conveyed to him about 600,000 acres of rich grassy land for a quantity of knives, scissors, looking-glasses, blankets, and similar articles of native ambition, was drawn up by Batman near the site of Melbourne. Proceeding southwards, he came upon the main stream of the Yarra, and again boarded Next day he ascended the river in a boat, and on reaching the Yarra Falls, entered in his diary the famous legend, "This will be the place for a village." Leaving a small party at Melbourne. Indented Head, Batman and his associates returned to Tasmania to prepare for the transportation of their households and worldly possessions, which speedily followed.

But Batman was not to have things all his own way. Pascoe Fawkner, who was one of the children whose brightness had illumed for a time the gloomy Sorrento settlement of 1803, formed a small party, and sailed in the Enterprise from Launceston a few weeks after Batman's departure. After visiting Westernport, whose aspect was particularly discouraging to the settlers, the Enterprise entered Fort Phillip on 15th August, 1835. Batman's party at Indented Head, speedily and in due form intimated that their master was the owner of all the western side of the bay and the noble river Fawkner appears to have been prepared for such a at its head. claim, presumptuous as he declared it to be, for the Enterprise proceeded up the South Channel, and moved slowly northwards along the coast, in order that an exploring party might land from time to time to view the country. In this way Dromana, Frankston, Mordialloc, Brighton, and St. Kilda were tried and found wanting, and eventually the vessel anchored in Hobson's Bay, near the river mouth. The Yarra was entered in a boat, and the site of the present Custom-house selected for the settlement. Next day, the Enterprise was towed up, and the landing of the colonists, with their horses, provisions, ploughs, grain, fruit trees, building material, and other necessities of a new settlement, accomplished the foundation of Mel-The settlement at Indented Head was removed to "the place for a village," and encamped quietly on the site of St. James's Cathedral, close beside the Fawkner settlement.

The Capital.

Thus arose the present capital of the State, which, under the name of Greater Melbourne, now comprises the cities of Melbourne, South Melbourne, St. Kilda, Footscray, Fitzroy, Collingwood, Hawthorn, Richmond, and Prahran; the towns of Malvern, Brighton, Port Melbourne, Williamstown, Essendon, Brunswick, Northcote, Caulfield, Camberwell; the boroughs of Kew, Oakleigh, and Coburg; the shire of Preston; and parts of the shires of Moorabbin, Mulgrave, Nunawading, Doncaster, Templestowe, Heidelberg, Whittlesea, Epping, Broadmeadows, Keilor, Braybrook, Wyndham and Eltham. The total area of Greater Melbourne is 163,480 acres of which 5,405 acres are reserved as parks and gardens. At the census of 1901 there were 97,653 dwellings, containing 538,569 rooms, and housing 494,167 persons, which had increased to 114,000 dwellings, with a population of 526,400 at the end of 1906.

Port Phillip district. Rapid progress was made by the new settlement. In little more than a year Sir Richard Bourke, the Governor of New South Wales, sent Captain Lonsdale from Sydney as Magistrate. He himself visited the place in 1837, and planned out the towns of Melbourne, Williamstown, and Geelong, to the last of which places Captain Fyans was appointed police magistrate in September of the year named. Up to 1851, the district formed a part of New South Wales, under the name of Port Phillip. On the 1st July of that year it became a separate Colony, and was called Victoria, after Her late Most Gracious Majesty.

GOLD PRODUCTION.

Gold.

An important element in the development and prosperity of the new Colony was the discovery of gold, which took place in 1851. The precious metal was first discovered at Clunes, then at Anderson's Creek, and soon after at Buninyong and Ballarat, afterwards at Mount Alexander, and eventually at Bendigo. Large and important fields were subsequently opened up in the districts around Ararat, Stawell, Beechworth, and Maryborough, and in Gippsland. The discovery brought about a large immigration from many parts of the world. All persons were allowed to dig for gold on payment of a licence-fee of £,1 10s. per month, afterwards reduced to that amount per quarter. In the early days the diggers found no difficulty in paying this fee, as they were not very numerous, and were generally successful. As time went on, however, the gold-fields population increased largely, many men were unsuccessful, and the payment of the fee became burdensome. The mode of collecting it was objectionable. The outcome of the whole matter was dissatisfaction and discontent, which culminated in a riot at Ballarat towards the close of 1854, when the diggers erected a stockade at Eureka, and set the authorities at defiance. Troops were despatched to Ballarat, and the disturbance was speedily quelled. A Royal Commission was subsequently appointed, who made recommendations for the removal of the licencefee, and for other concessions, the carrying out of which ultimately restored peace and harmony.

Since its discovery, the quantity of gold recorded for Victoria up the end of 1906 is 69,202,178 ounces, valued at £276,516,978, this being about one-half the quantity recorded for the whole of Australia.

WOOL PRODUCTION.

Important as was the discovery of gold in aiding the early develop- wool ment of the Colony, wool production has been hardly less notable. It is to the Tasmanian flocks of sheep that the best Victorian stock owes its origin. The original Henty flock was formed at Sussex, England, towards the close of the eighteenth century, and brought by members of the family to Tasmania, whence it was transferred to Portland, at the time Edward Henty settled there. Good Merinoes were also overlanded from the Camden flock, established in New South Wales by Captain Macarthur in 1797, with Merinoes imported from Eng-This strain has been preserved pure in Victoria. The first official return of sheep in this State was in 1836, when the number was 41,332. At the end of 1842 the number recorded for the Port Phillip district was 1,404,333. The herds increased year by year, until at the census of 1891 the number was 12,692,843, which, owing to dry and unfavorable seasons between that year and 1901, decreased to 10,841,790. The number had increased in 1906 to 11,455,115.

Wool was first exported in 1837, the quantity being 175,081 lbs., valued at £11,639; in the following year 320,383 lbs., valued at £21.631, were exported; in 1839, 615,603 lbs., valued at £45,226; in 1840, 941,815 lbs., valued at £67,902; and in 1841, 1,714,711 lbs., valued at £85,735.

Soon after this time the figures of the export trade of wool from Victoria include small returns from New South Wales; but it was not until 1864 that wool to any considerable extent was exported from that Colony through Victoria. In 1862 and in 1863 the export from Victoria was about 25,000,000 lbs.; in 1864 it was nearly 40,000,000 lbs.; the increase being mainly derived from the Riverina district, which was placed in communication with Melbourne by means of the Echuca railway. In 1905-6, the wool production was 75,738,303 lbs. Prior to 1890 no returns were prepared to show the average weight of fleeces. Since that year, however, records have been kept, and the average (sheep and lambs) for the whole period may be put down at 5 lbs. $8\frac{1}{2}$ ozs. This may be taken as an indication of the suitability of Victoria in soil, climate, and natural pasturage for sheep-breeding.

GENERAL PROGRESS.

The following table has been prepared to illustrate the advance made by the Colony since 1842, the year of the introduction of representative government into New South Wales, which then included the Port Phillip district. The years 1850 and 1855 have been chosen—the former as being the year immediately preceding the separation of the Colony from New South Wales, and the latter the date of

the the introduction of responsible government for sequent years are census years, except the last: introduction responsible for Victoria.

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	1842.	1850.	1855.	1861.	1871.	1881.	1891.	1901.	1905-6.
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Population, 31st December	23,799	76,162	364,324	541,800	747,412	879,886	1,157,678	1,210,882	1,237,998
Revenue £	87,296	259,433	2,728,656	2,592,101	3,734,422	5,186,011	8,343,588	7,712,099	7,811,475
Expenditure from Revenue £	124,631	196,440	2,612,807	3,092,021	3,659,534	5,108,642	9,128,699	7,672,780	7,261,475
Public Funded Debt £	••		480,000	6,345,060	11,994,800	22,426,502	43,638,897	49,546,275	52,904,800
Gold produced oz.	a -:		2,793,065	1,967,453	1,355,477	858,850	576,400	789,562	834,775
Wool produced lbs.	2,752,330	16,345,468	22,470,443	22,640,745	37,177,646	45,970,560	76,503,635	73,235,138	75,738,303
Butter produced ,, Agriculture—	• •	••	••		••	••	16,703,786	46,857,572	57,606,821
Land in cultivation acres	8,124	52,341	115,060	427,241	793,918	1,582,998	2,512,593	3,647,459	4,269,877
Wheat bushels	55,360	556,167	1.148.011	3,607,727	4,500,795	8,714,377	13,679,268	12,127,382	23,417,670
Oats "	66,100	99,535	614.614	2,136,430	3,299,889	3,612,111	4,455,551	6,724,900	7,232,425
Wine gallons	00,100	4,621	9.372	47,568	713,589	539,191	1,554,130	1,981,475	1,726,444
Live Stock—Horses No.	4,065	21,219	33,430	84,057	181,643	278,195	440,696	392,237	385,513
" Cattle "	100,792	378,806	534,113	628,092	799,509	1,286,677	1,812,104	1,602,384	1,737,690
" Sheep "	1,404,333	6,032,783	4,577,872	6,239,258	10,002,381	10,267,265	12,928,148	10,841,790	11,455,115
", Pigs "		9,260	20,686	43,480	177,447	239,926	286,780	350,370	273,682
Imports—Value £ Exports—Value £	277,427	744,925.	12,007,939	13,532,452	12,341,995	16,718,521	21,711,608	18,927,340	25,234,301
	198,783	1,041,796	13,493,338	13,828,606	14,557,820	16,252,103	16,006,743	18,646,097	28,915,184
12 - 13	78,025	195,117	1,133,283	$1,090,002 \\ 214$	$1,355,025 \ 276$	2,411,902	$4,715,109 \\ 2,764$	6,715,491	8,136,991
Telegraph wing	••	::	••	2,586	3,472	$\begin{array}{c} 1,247 \\ 6,626 \end{array}$	13,989	3,238 $15,356$	3,398 16,082
Postal business—Letters No.	97,490	381,651	2,990,992	6,109,929	11,716,166	26,308,347	62,526,448	83,973,499	119,689,073
Noweneror	147,160	381,158	2,349,656	4,277,179	5,172,970	11,440,732	22,729,005	27,125,251	41,919,311
Savings Bank Deposits £	-11,100	52,697	173,090	582,796	1,117,761	2,569,438	5,715,687	9,662,006	11,764,179

Note.—In a few instances in the earlier years, where it is not possible to give figures for the exact date or period shown, those for the nearest dates or periods are given, Gold was discovered in 1851, in which year the return was 145,137 oz. Butter figures were not collected prior to 1891,

The sub-

The population of the State at the end of 1842 was 23,799; and at the end of 1906 it had increased to 1,237,998. Prior to 1851, the net immigration was 64,545; during the decennial period, ended 1861, it was 400,045; in that ended 1871 it was 41,789; in that ended 1881 there was a loss of 15,322 by emigration; between 1881 and 1891 there was an increase of 116,950; but during the period 1891-1901 there was a loss of 111,577, making a total gain by immigration up to the census of 1901 of 496,430.

During the period 1842-1906, the revenue steadily increased from £87,296 to over £7,800,000. There was no public debt until after separation. In 1855, the State indebtedness was £480,000, which steadily increased until, in 1906, the funded debt had reached £,52,904,800. The land in cultivation in 1842 was slightly over 8,000 acres; it now amounts to over 4,250,000; in the number of horses, cattle, and pigs increases are generally shown. The value of imports in 1842 was £277,427; in 1906 it was over £25,000,000. Exports amounted to £198,783 in 1842; and in 1906 to nearly No railways or telegraphs were in existence up to $f_{,29,000,000}$ the end of 1855; in 1861 there were 214 miles of railway open, and 3,398 miles in 1906; 2,586 miles of telegraph wires had been erected up to 1861, 16,082 miles up to the end of 1905. business in letters and newspapers shows a large increase, and the deposits in savings banks rose from £52,697 in 1850 to £,11,764,179 in 1906.

GEOGRAPHICAL POSITION, AREA, AND CLIMATE.

Victoria is situated at the south-east extremity of the Australian Area of continent, of which it occupies about a thirty-fourth part, and con-Victoria. tains about 87,884 square miles, or 56,245,760 acres. It is bounded on the north and north-east by New South Wales, from which it is separated by the River Murray, and by a right line running in a south-easterly direction from a place near the head-waters of that stream, called The Springs, on Forest Hill, to Cape Howe. On the west it is bounded by South Australia, the dividing line being about 242 geographical miles in length, approximating to the position of the 141st meridian of east longitude, and extending from the River Murray to the sea. On the south and south-east its shores are washed by the Southern Ocean, Bass Strait, and the Pacific It lies between the 34th and 39th parallels of south latitude, and the 141st and 150th meridians of east longitude. extreme length from east to west is about 420, its breadth about 250, and its extent of coast-line nearly 600 geographical Great Britain, exclusive of the islands in the British Seas, contains 88,309 square miles, and is therefore slightly larger than Victoria.

The southernmost point in Victoria, and in the whole of Australia, is Wilson's Promontory, which lies in latitude 39 deg. 8 min. S., longitude 145 deg. 26 min. E.; the northernmost point is the place where the western boundary of the State meets the Murray,

latitude 34 deg. 2 min. S., longitude 140 deg. 58 min. E.; the point furthest east is Cape Howe, situated in latitude 37 deg. 31 min. S., longitude 149 deg. 59 min. E.; the most westerly point is the line of the whole western frontier, which, according to the latest correction, lies upon the meridian 140 deg. 58 min. E., and extends from latitude 34 deg. 2 min. S. to latitude 38 deg. 4 min. S., or 242

geographical miles.

From its geographical position, Victoria enjoys a climate more suitable to the European constitution than any other State upon the Continent of Australia. In the forty-nine years ended with 1906, the maximum temperature in the shade recorded at the Melbourne Observatory was 111'2 deg. Fahr., viz., on the 14th January, 1862; the minimum was 27 deg., viz., on the 21st July, 1869; and the Upon the average, on four days during the mean was 57.3 deg. year, the thermometer rises above 100 deg. in the shade; and, generally, on about three nights during the year, it falls below The maximum temperature in the sun ever refreezing point. corded (i.e., since 1857) was 1785 deg., viz., on the 4th January, The mean atmospheric pressure, noted at an Observatory gr feet above the sea-level was, in the 49 years ended with 1906, 29.93 inches; the average number of days on which rain fell was 132, and the average yearly rainfall was 25.59 inches.

PHYSICAL GEOGRAPHY, GEOLOGY, AND FAUNA OF VICTORIA.

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PHYSICAL GEOGRAPHY.

In shape, Victoria is roughly triangular, its breadth from north to south along its western border being about one-half its length from east to west. The highlands also form a triangle, but in this case the greatest north and south measurement is in the east, while the base stretches nearly to the western boundary. This area of high land attains its greatest elevation in the east, and gradually sinks towards the west. The elevated region consists of palæozoic, and perhaps older rocks, of various ages, with, in a few cases, as at Dargo High Plains, and at Bogong High Plains, patches of older-tertiary basalts.

There are thus constituted two main drainage areas. A series of rivers flows northwards from the highlands, forming the Murray and its southern tributaries, while another series flows southwards to the sea. At the western end the Glenelg taps streams which arise both on the northern and the southern slopes. The waterparting between the north and the south flowing streams is spoken of as the Main Dividing Range, and along its course are some of the highest mountains of the State, as Mount Cobboras, 6,030 feet, Mount Hotham 6,100 feet, and several others nearly as high. The average elevation of the Divide is about 3,000 feet. The highest mountains in Victoria lie to the north of the water-parting, namely, Mount Bogong, 6,508 feet, and Mount Feathertop, 6,306

Climate.

feet. On the higher mountains snow occasionally lies in sheltered localities throughout the year, but we have no permanently snow-clad mountains in Australia. The Divide, which is of considerable geological age, forms a well-marked boundary between two distinct zoological areas. The animals to the north are allied to those of Central Australia, while those to the south are almost identical with the Tasmanian.

The strike of the palæozoic rocks is, roughly, north and south, so that the direction of the Dividing Range is not due to the primary rock-folding. The Divide, owing to stream capture and general denudation, has doubtless shifted its position from time to time, but the existence of the highlands is probably, in part, due to an east and west series of folds, of which the "pitch" in the anticlines of our older rocks affords evidence.

Highlands also occur to the north of Cape Otway, rising to a height of over 2,000 feet, and also in South Gippsland. These districts are densely clothed with forests, and rich in fern gullies, the rocks consisting of fresh-water jurassic strata. Geographically isolated from the rest of the State is the rugged granitic area of Wilson's Promontory, which rises in places to about 2,500 feet.

The north-west of Victoria is occupied by a large plain which borders the highlands on the north, and sweeps west, and especially north far beyond the boundaries of the State. It represents in the main the flood-plain of the Murray and its tributaries. This area is for the most part covered by a dense growth of several dwarf species of Eucalyptus, known collectively as Mallee.

The south-west is occupied by another plain, consisting chiefly of recent basalts and tuffs. It is typically treeless, owing to the small depth of soil, and to poor subsoil drainage, but it is richly grassed, and contains some of the best and most easily worked agricultural

land in the State.

As already indicated, the main river system consists of the Murray Rivers and and its tributaries, the Murray itself being our only stream that is lakes navigable for any distance, and forming an important highway. Owing to the building up of its flood plain by the river its western tributaries can no longer reach it, but spread out in times of flood

into broad, shallow lakes which disappear in dry seasons.

As regards the streams to the south of the Dividing Range, the south-westerly drift bars the mouths of all which debouch into the open sea, and long continued action has built up a ridge off the Gippsland coast behind which the rivers spread out to form large shallow lakes. The volcanic plains of the west are dotted with lakes and swamps owing to the imperfect drainage of the almost level expanse, the low barriers formed by the irregular flows of lava, and the distribution of the sheets of volcanic ash. Some of these lakes have been ascribed to sinking of the surface as a subsequent result of the volcanic outburst, while others, many of which are very deep, occupy the sites of volcanic vents. Many of the western lakes have no outlet, and are salt, while those with a permanent or occasional overflow are fresh.

Coastline.

From the Glenelg on the west as far eastward as Gellibrand river, the western plains abut on the sea. Sometimes it is the volcanic rocks which reach the coast, but in most places the underlying marine tertiaries border the shore, with or without an intervening belt of sand dunes. Where the plain, as at its eastern end, reaches the height of 200 or 300 feet it is deeply eroded. and, as is the case in the area occupied by the Heytesbury forest, its essential character is not at first apparent, and the coast itself is bordered by vertical cliffs. East of the Gellibrand, and sweeping past Cape Otway to near Split Point, the highlands of the Otway Ranges with their forests, streams, and waterfalls afford a coast of great beauty. From Split Point, as far as Wilson's Promontory, the land shows no great elevation, rarely rising more than 200 Sand dunes and cliffs of marine tertiaries, or of basalt, border it nearly all the way. At Cape Woolamai we have an isolated mass of granite, and about Cape Patterson the jurassic coal series forms the shore line. Near Cape Liptrap is a small, rugged outcrop of palæozoic rocks. Beyond Wilson's Promontory, with its beautiful scenery of small bays backed by lofty tree-clad ranges, and with its clusters of precipitous islets, comes the long, dune-fringed Ninety-mile-beach. Behind these dunes at their eastern end lie the Gippsland Lakes. Beyond Lakes' Entrance high ranges of palæozoic rocks and granite front the sea, and extend to Cape Howe, the most easterly point in the State.

The only good natural harbor is the land-locked basin of Port Phillip. Portland Bay, on the west, is formed under the lee of a projecting tongue of volcanic rocks. Lady Bay, Warrnambool Bay, Port Campbell, and it is said Apollo Bay and Loutit Bay, owe their main outlines to the fact that they are drowned valleys. Port Phillip has itself a similar origin, its eastern side being defined by a north and south fault. Western Port, Corner Inlet, and Mallacoota Inlet are also due to subsidence. The estuaries of the Curdie, Gellibrand, Aire, Barwon, and other smaller streams were formerly inlets of a similar nature, but are now more or less filled with river-

borne material.

As regards islands, we are poorly off. Lady Julia Percy Island, near Portland, is volcanic. East of this, where hard bands occur at sea-level, in the marine tertiaries, the coast is fringed by stacks and precipitous islets carved out by the waves. These are absent along the Otway coast, where the jurassic rocks reach the shore. Phillip and French Islands, like those off Wilson's Promontory, are due to subsidence, the old hill tops standing above the sea, which now fills the intervening valleys.

GEOLOGY.

The triangular shape of the area occupied by the palæozoic rocks has already been pointed out. The stratified rocks of this age have a general north and south strike, and the older ones are acutely folded. The mesozoic and tertiary strata show no great crumpling, though considerable faulting has occurred in places. Their strike is in the main parallel to the coast, or east and west.

For details as to the distribution of the rocks reference may be made to the beautiful geological map of the State published a few

years ago by the Department of Mines.

Scattered irregularly over the State are numerous outcrops of older quartz-mica-diorites and granitoid rocks of various types. They are rocks, post-silurian, and intrude the older rocks. They range from Cape Howe to beyond the Glenelg, and from Wilson's Promontory in the south to near Swan Hill in the north.

At Mounts Macedon and Dandenong occurs a series of dacites and various other associated rocks of uncertain age. Long regarded as palæozoic, they have of late years, on very slender evidence, been The results of more recent work on them spoken of as cretaceous. have not vet been published.

Another series of rocks, and possibly older, of basic composition,

is found to the north of Heathcote, and in a few other localities.

In the extreme north-east in Benambra, and in the south-west in Metamor-Dundas, are two large areas of crystalline schists. Their age is in dispute. By some they are regarded as archæan, and by others as altered ordovician. A few small patches occur elsewhere.

At Heathcote fossils have been found, which have been referred Cambrian. to middle cambrian age, but this reference has been disputed in favour At Dookie and at Waratah Bay certain other beds

have been thought to be cambrian, but fossils are wanting.

Slates and sandstones of ordovician age, all acutely folded, and ordovician. more or less cleaved, occur. Limestones are practically absent. One large area is situated in the east, and the same rocks re-appear in the centre of the State. From Ballarat westward is a large mass of rocks having similar characters, but as no fossils have been found we cannot be certain of the age of the old rocks of even Ballarat itself, though they are generally regarded as ordovician. Recently many places which were thought to be occupied by silurian rocks have yielded ordovician fossils, as will be seen on comparing the last two editions of the geological map. Since then ordovician, in the place of silurian,

has been proved on the Mornington Peninsula.

As regards fossils, the absence of calcareous beds greatly limits their variety. A few sponges and lower types of crustacea occur. No trilobites have been found, unless the Heathcote rocks be ordovician, and not cambrian. The dominant forms are graptolites, of which a large number are known. The series is divided into upper and lower. Of the former there is but little accurate information available. rocks of the eastern area, a prolongation of similar beds in New South Wales, are of this age, as also are certain rocks near Matlock, Sunbury, and some other places north of Melbourne. The lower ordovician has been divided into four. These, in descending order, are typically developed at Darriwell (north of Geelong), and at Castlemaine. Bendigo, and Lancefield. Most of our auriferous quartz veins occur in the ordovician, but some are in younger, and perhaps some in older, rocks. The best studied gold-field is that of Bendigo, where the veins fill lenticular spaces arching over the anticlines. They have considerable extension along the strike, and several usually occur on the same anticline, one below the other. These veins are known as "saddle-reefs." "Pitch" of the strata, or undulation of the axis

of the anticlines in a vertical direction, is a marked feature, and of considerable importance from its effect on mine working.

· Silurian.

The older rocks round Melbourne, and for some distance to the north and east, are of this age. Sandstones, mudstones, and, at a few places, as at Lilydale, near Mansfield, and on the Thomson River, limestones occur. The rocks have not been subjected to the same amount of disturbance as the ordovician, and fossils are fairly common, though, except in the limestones, rarely well preserved. A large number have been recorded. Monograptus, corals, polyzoa, brachiopoda, mollusca, trilobites, and crustacea have been found. An apparent approach to a devonian facies is shown at some localities. In the neighbourhood of Melbourne the strata are much disturbed. There is an upper and a lower series, formerly known by names borrowed from British geology, though the local names, Melbournian for the lower or graptolite bearing series, and Yeringian for the upper, are now more suitably employed. The rocks are frequently auriferous.

Devonian.

A long and narrow belt of quartz-porphyries, and allied rocks, running parallel to the Snowy River, and partly intersected by it, marks a volcanic axis. In places tuffs rest on the edges of the ordovician, and are in turn overlain by limestones rich in devonian fossils. The volcanic rocks have been referred to lower devonian, and the limestones to middle devonian. Several patches of these limestones occur widely scattered over the eastern parts of the State, the largest being at Buchan and at Bindi. Corals, brachiopods, and molluscs abound in them. A series of much-folded shales and quartzites of apparently the same age, judging by the fossils, is to be seen at Tabberabbera and Cobannah. In places overlying these highly-inclined, middle devonian beds are found nearly horizontal strata. These, as at Iguana Creek, vield plant remains, and are regarded as upper The Grampian sandstones, which form a bold range with an abrupt south-easterly fault-scarp over 2,000 feet in height, have vielded no fossils, but are provisionally regarded as upper palæozoic. The Cathedral Range, near Marysville, belongs probably to the same series.

Carboniferous. Certain sandstones on the Avon with Lepidodendron are, it is considered, of this age. From here northward, across the Divide, a belt of similar rocks extends, forming very rugged mountains. A series of fossil fish from near Mansfield, at the northern extremity, has lately been critically examined, and declared to be of carboniferous age, and not devonian, as was formerly held.

Permo-Carboniferous. At several localities occur beds of glacial origin, sometimes of considerable thickness. At Bacchus Marsh the boulder beds are associated with sandstones containing the fossil fern-like plant Gangamopteris, which affords a means of correlating them with beds elsewhere.

Jurassic.

About Coleraine and in the Otway district, and in South Gippsland, there are large areas of fresh-water shales and sandstones, in places conglomeratic. A few fish and fresh-water molluscs have been found; but the chief fossils are plants, of which a large number are now known, as Baiera, Taeniopteris, &c. Coal is worked in the beds in Gippsland, as at Jumbunna and Outtrim.

The rocks hitherto spoken of are confined in the main to the high—Tertiary-lands previously described. The lowlands are for the most part occupied by tertiary rocks of volcanic and marine origin, with, over large tracts, a cover of fluviatile, or wind-formed source. They form a belt between the Dividing Range and the sea, or the jurassic rocks, where these occur, from near the mouth of the Snowy River to beyond the western boundary of the State. They sweep round the western end of the Divide, and underlie the greater part of the Mallee district in the north-west. Where they, or the fluviatile or the aeolian deposits, overlie auriferous bedrock, the buried river channels usually contain gold. In other places lignite beds, sometimes of considerable extent and thickness, are formed, as at Deans Marsh, Altona Bay, Lal Lal, and several localities in South Gippsland. Both these types of deposit, the gold and lignite bearing, are of various ages, from oldest tertiary upwards.

The marine beds are extremely rich in fossils, and have been divided into three main groups. Owing to the difficulty, or perhaps the impossibility, of correlating them with the subdivisions of the

northern hemisphere, local names are now generally applied.

Barwonian (? Eocene).—Sands, clays, and limestones composing beds of this age are widely spread, occurring about the Gippsland Lakes, and along the southern coast from Flinders to the Glenelg. Inland they underlie the western plains from Geelong to beyond Hamilton, and have been proved in bores from Stawell to beyond the Murray northwards. East of this line they appear to be bounded by a ridge of palæozoic rocks, extending northwards from the Divide, and only thinly mantled by non-marine beds. The fauna of the marine beds is extremely rich and varied, all types being represented, and in number of species and excellence of preservation is scarcely anywhere surpassed. Associated with the marine beds is a series of basalts and tuffs, which are found more especially in the central and eastern parts of the State. Under certain climatic conditions these rocks have decomposed to form a valuable agricultural soil.

Kalimnan (? Miocene).—These rocks are widely spread, though not so extensively as the Barwonian. They are well represented near Bairnsdale, Shelford, Hamilton, and, though the age is in dispute, at Beaumaris. As a rule they are more arenaceous than the lower beds, and ferruginous sands are typical. The fauna is fairly rich.

Werrikooian (? Pliocene).—Marine beds of this age are not common, but are found in the lower Glenelg district, overlying Barwonian.

The fossils are almost all existing species.

After the deposit of these beds there occurred an extensive outpouring of basaltic lavas in the southern and south-western parts of the State, and large lava plains were formed, through which deep gorges have been cut by the creeks and rivers. Fine examples of volcanic cones in all stages of denudation are plentiful. In deposits, both immediately before and after this last volcanic outburst, there are found the bones of numerous extinct marsupials, such as Diprotodon, Nototherium, and gigantic kangaroos. Raised beaches point to an elevation of some twenty feet since the previous subsidence, which formed many of our harbors.

In conclusion, it may be stated that many of the writer's sins of omission are due to the small space allotted to him, and even that small space has been exceeded.

The peculiarity of the Australian mammalian fauna has often been remarked upon. Nowhere else in the world do we find representatives of the three great groups into which the class is divided, namely, the eutheria, the marsupials, and the monotremes. group, containing the spiny anteater (Echidna) and the platypus (Ornithorhynchus), is confined to the continent and neighbouring islands, while the marsupials exist, nowadays, only in the Australian region and America.

Of the eutheria, which comprises all mammals above the marsupials, we have but a few terrestrial forms—the dingo, a few bats, and rats and mice. The seas afford a few more, such as whales and

porpoises, seals, and in certain places the dugong (Halicore).

In Victoria itself we find the Australian fauna typically devel-The echidna ranges over the whole continent, while its ally, the platypus, is confined to the eastern side of Australia, from Tasmania to the tropics. Both are still common in certain parts of the

Among the marsupials the kangaroo family (Macropodida) is well represented, though the larger forms are rapidly disappearing. These comprise the red, grev, and the black-faced kangaroos. The smaller forms, such as wallabies and rat-kangaroos, are still plentiful in many of the more densely forested regions. The southern wallaby (Macro. pus billardieri) is identical with the Tasmanian one, and the other common one (M. ualabatus) ranges far to the north of our boundaries. A few other northern forms come down south as far as the Dividing Range. The small kangaroo-rats (Bettongia), dwelling in thick scrub,

are hard to catch sight of, and still harder to shoot.

The Australian opossum family (Phalangerida) comprises our socalled opossums, flying squirrels, and the native bear-unfortunate names, but the only local ones in common use. The silver opossum and the Tasmanian brown are the same species (Trichosurus vulpecula), the island form being a little larger and of a darker hue. This species ranges over practically the whole of Australia. form their nests in hollow trees, or, where these are absent, as on some of the islands in Bass Straits and in Central Australia, on the ground. The ring-tailed opossum (Pseudocheirus peregrinus) builds a hollow, ball-like nest of grass and bark in the dense scrub. The flying opossums, or, as they are sometimes called, flying foxes (Petaurus) and the flying squirrels (Acrobates) are represented by several species, ranging from the size of a cat to that of a mouse, and are very beautiful forms. They have not the power of true flight, but can glide for a considerable distance from a greater to a less height. The native bear (Phascolarctos cinereus) has a very restricted range. It does not occur in South Australia nor Tasmania, but passes north up the eastern coastal region. Despite its name, it is a harmless vegetable feeder, and its valuable skin dooms it to early extermination.

Of the wombat family we have but one representative (*Phascolomys mitchelli*), which is still common in the eastern parts of the State.

In the native cat family we have three of the spotted species, the large tiger cat (Dasyurus maculatus) and the common native cat (Dasyurus viverrinus), which occur south of the Dividing Range, and dwell also in Tasmania. The third species (Dasyurus geoffroyi) occurs only to the north of the Divide. The weasels (Phascologale) and the pouched mice (Sminthopsis) are numerous in species and fairly common. Some are arboreal, others terrestrial. The pouched mice are fierce little cannibals, and a few years ago about fifty were sent down alive in a case to the University. Two days after there were two living, while a few rags of fur represented the other four dozen. The survivors engaged in mortal combat in the glass jar in which they were put to be chloroformed. Examples of these small forms and of their skeletons are desiderata in the National Museum. The jumping pouched mouse (Antechinomys laniger), which hops like a diminutive kangaroo, comes south only into North-western Victoria, and is not well known with us.

The bandicoot family is a small one, though three species of bandicoot (*Perameles*) are found in the State. They live in grass land. The rabbit-bandicoot, or bilbie (*Peragale*) and the pig-footed bandicoot (*Choeropus castanotis*) occur in the north-west, the latter being a rare animal.

In eutheria, the higher mammals, we are, as already stated, poorly off. The dingo, apparently, got here before man arrived, and its remains are found fossil. Bass Straits was a barrier to it, and it did not reach Tasmania.

Among bats the large flying-fox (Pteropus poliocephalus) often does harm to the fruit in the northern parts of the State and in Gippsland. It is widely spread up the eastern sea-board of the continent. We have also several other small bats, but must pass them over.

Among rats, the golden water rat (Hydromys chrysogaster) is a large, handsome animal ranging all over Australia, and occurring also in Tasmania and New Guinea. There appears to be only the one species. The bush rats of the State (Mus gouldi and Mus greyi) are common, and probably others occur. They have not been satisfactorily worked out here, and specimens are needed in the Museum.

Only one species of seal, the Australian sea-bear (Euotaria cinerea) is now found in Bass Straits, and is protected. There are colonies on a few outlying islands and rocks. Other species occasionally stray up from the far south. The yellow-sided dolphin (Delphinus novae-zelandiae) is common in our waters, and whales of several species are occasional visitors.

As regards birds, we have only some two or three species practically confined to the State, the Victorian lyre-bird (Menura superba) being the best known. The emu is still common in the north-west. Wild fowl are plentiful, and occasionally great incursions are made from the north. Our most striking birds are the lories and honeveaters, which gather "the harvest of the honey-gums." Quail are

common at times, and pigeons of various kinds occur. The mound-building lowan, or mallee-hen (Leipoa ocellata), and the bower birds (Ptilonorhynchus violaceus and Chlamydodera maculata) are remarkable for their habits, so often described, while the mutton bird (Puffinus brevicaudus) is of great economic value for its eggs, which are gathered, together with its young, in countless numbers. Field naturalists have investigated our birds more thoroughly than any other group of our fauna, and are now busy collecting data for the study of their migrations, an almost untouched subject here.

Turning to the reptiles, we have two tortoises, the short-necked (*Emydura macquariae*), found north of the Divide, and the long-necked (*Chelodina longicollis*) occurring both there and in South

Gippsland.

As regards lizards, the most remarkable are the so-called legless forms of the family Pygopidae. They have no front legs, while the hind ones are represented by two scaly flaps usually fitting into grooves on the side of the body, and so escaping casual examination. They are the main source of the stories of snakes with legs which occasionally fill our newspapers. The large "goanna" (Varanus varius) derives its name from Iguana, a genus not found in Australia. It is common north of the Divide, and reaches a length of five or six feet. A smaller cousin (Varanus gouldi) ranges as far south as Gippsland, and as it frequents streams is dignified by the name of the Gippsland crocodile. Our other lizards are small and harmless, though some have such terrifying names as "bloodsucker" (Amphibolurus), and so on. Altogether we have some fifty species of lizards in the State.

Among snakes, we find the non-venomous blind-snakes (Typhlops), with bodies as smooth as glass, the green tree snakes (Dendrophis) and the carpet snake (Python spilotes). All these forms are commoner in the north of the State. We have about a dozen venomous species, though some from their small size are not dangerous to man. The tiger snake (Notechis scutatus), a handsomely marked species, is the most active and dangerous. Most of the others are timid, though quite as deadly when large. The deafadder of the drier parts of the State lies quite still till nearly or quite stepped on, and then strikes without warning. It is a short thick-set reptile, and to be dreaded on account of its habits.

We have about eighteen amphibians in Victoria, all of them being frogs and toads. The largest is the handsome green and gold "bull-frog" (Hyla aurea), very common in Southern Victoria. The sand frogs (Limnodynastes) are widely distributed, even far from water. All the frogs are great insect-eaters, and in their turn are

a favorite food of the snakes.

In fresh-water fish we are not rich, owing mainly to our poor river development. There is a marked distinction between the forms found to the north of the Divide, and those to the south. In the Murray basin we have the Murray cod (Oligorus macquariensis), which occasionally reaches the weight of roo lbs. This fish, together with the cat-fish (Copidoglanis tandanus), the bony bream (Chaetoessus richardsoni), and a few others are absent from the southern waters. The southern forms are nearly all found also in

Tasmania as well, and include the blackfish (Gadopsis marmoratus), and the eel (Anguilla australis). The voracious little mountain trout (Galaxias truttaceus), which rarely reaches a quarter of a pound in weight, has a similar southern distribution, while the minnow (Galaxias attenuatus), common in the south, is said to range into the Murray waters as well, though we need specimens in the Museum to settle the point. Most of our other southern river-fish occur in the sea as well, and only pass up into the rivers for a longer or a shorter distance. Lampreys are found in most of our streams, but are not often caught.

Want of space prevents any discussion of the marine fish, which are of considerable economic value, though fish-preserving is a very

small industry with us.

The treatment of our invertebrate fauna must be brief, and confined to land and fresh water forms, though of some of the marine groups, as for instance the mollusca, we now know a good deal. In shell-fish we are poorly off. There is black-shelled snail (Paryphanta atramentaria), about \(^3\) inch in diameter in our southern fern-gullies, and another snail (Panda atomata) about the same size in Eastern Gippsland. Most of the other species are small, and attract the eye of the naturalist only. One water-dwelling form (Bulinus tenuistriata), which has its shell coiled in the opposite way to the ordinary—a left-handed screw—is the temporary host of the liver-fluke of the sheep, and this is the reason why wet ground is "fluky country."

Scorpions are very common in the warmer parts, but none are very large. Amongst the spiders, we have only one harmful species, the katipo (Latrodectes scelio), which is identical with the New Zealand form. It is black with a scarlet, or deep orange spot on the hinder end of its back. The so-called "tarantula," though hideous and terrifying to most people, is quite harmless, and could not bite a human being, if it wanted to. A spider with a much larger body is found in the northern districts, and spins a very strong web from

bush to bush.

Among insects, the beetles, butterflies, and moths alone have been examined with anything like thoroughness. Many of our striking beetles, while in the larval stage, are injurious to vegetation, such as the buprestids, longicorns, cetonids, and cockchafers. The ladvbirds (Coccinellidae), are carnivorous in the larval stage, and great foes of the scale insects. We have no large butterflies such as occur in Queensland, but possess some very fine moths, some of which, in their larval stage, are plant-eaters, and work considerable damage. We have a few fine stick-insects which mimic dead twigs, and are therefore not often detected, though when seen they always attract Locusts and grasshoppers at times do considerable harm. Dragon-flies, white ants, and ant lions are common enough in certain districts. Our native bee is stingless, but is being starved out by the imported bee, which is now widely spread. The shrill deafening song of the cicada (Cicada mærens) in its countless thousands must be heard on a hot day to be appreciated. Hosts of other forms must be passed unnoticed, though it may be said that our bull-dog ant is the largest ant known.

Of crustacea, we can mention only the fresh-water crayfish, of which we have several kinds. The Murray crayfish (Astacopsis serratus) is a spiny form growing to the length of a foot, and occasionally seen in the Melbourne market. The yabbie, or pond crayfish (Astacopsis bicarinatus) is found in all suitable situations, and ranges widely over Australia. It is a small species, but is eaten. The so-called land-crab (Engaeus) is really a crayfish, and is found in the damper parts of the State. It also occurs in Tasmania.

Centipedes are common, especially in the warmer parts, but do not seem to do much harm to human beings.

We are rich in earthworms, though our native species are disappearing before the imported European ones, which are now found everywhere in the State. In the Gippsland giant earthworm we have by far the largest species known. A living specimen recently measured at the University was seven feet two inches long. Gorgeously coloured planarian worms, a few inches in length, abound in the moister parts of the State, being generally found under logs.

The same localities are the home of two or three species of land-leech, which are blood-thirsty, though small. A fresh-water leech (*Limnobdella quinquestriata*), used surgically, is common enough in ponds.

Pond life generally is actively studied by our field naturalists, but an attempt to deal with it would require a volume in itself, and appeal to professed naturalists alone. Suffice it to say that it is rich and varied, and presents us with many interesting problems.

As to the origin of our fauna, much has been said and written. Briefly, the marsupials, and, perhaps, some birds, the tortoises, certain frogs, fresh-water fish, many insects, earthworms, and other animals point definitely to a former land connexion with South America, where they find their nearest living relatives. The eutheria are of Malaysian origin, as also are most of our birds, some of our land mollusca, and the fresh-water crayfishes. This incursion is of later date than the Antarctic one. It may almost be said that the fauna and flora of the Queensland and New South Wales scrubs represent an invasion in force from the north.

In conclusion, one point may be noticed, and that is the popular names given to our animals and plants. The early settlers found themselves in a new world where nearly every thing alive differed from what they had been accustomed to. In their difficulties about names they adopted a few-far too few-from the aborigines, but in the main applied the names they knew to the fresh forms they Some of the names came from Britain, others from America, and a small number from other countries. So we have oaks and gum trees, box trees, and so on among plants. animals, we have bears, badgers, cats, bandicoots, opossums, squirrels, weasels, magpies, larks, wagtails, robins, turkeys, trout, cod, and a host of others, which are in no way related to their namesakes else-The result is often very confusing, but not nearly as much so as when scientific names, such as iguana, are wrongly applied to animals of a very different character from the rightful owners of the names.

MOUNTAINS AND HILLS.

The highest mountain in Victoria is the Bogong Range,* situated Mountains in the county of the same name, 6,508 feet above the sea-level; the next highest peaks are—Mount Feathertop, 6,306 feet; Mount Hotham, 6,100 feet; and Mount Cope, 6,015 feet; all situated in the same county; also the Cobboras, 6,030 feet, situated in the county of Tambo. These, so far as is known, are the only peaks which exceed 6,000 feet in height; but, according to the following list, which has recently been corrected for this work by Mr. J. M. Reed, the Surveyor-General, there are 20 peaks between 5,000 and 6,000 feet high, and 25 peaks between 4,000 and 5,000 feet high; it is known, moreover, that there are many peaks rising to upwards of 4,000 feet above the level of the sea whose actual heights have not vet been determined:-

*Mountains and Hills in Victoria.

Name of Mountain.	County.	Approximate Height above Level of Sea.	Name of Mountain.	County.	Approximate Height above Level of Sea.
Abrupt	Dundas, Ripon and Vil-	feet. 2,721	Barker	Talbot and Bendigo	feet.
_	liers		Bass Range	Mornington	
Acland	Polwarth		Battery	Delatite	
Aitken's Hill	Bourke	1,608	Baw Baw	Evelyn	5,062
Alexander	Talbot	2,435	Bealiba	Gladstone	
Alexander's	Bourke and		Bear's Hill	${f Bendigo}$	
\mathbf{Head}	Dalhousie		Beckwith	Talbot	2,087
A lexander's	Bourke and		Bellarine	$\operatorname{Grant} \dots$	463
Crown	Dalhousie		Benambra	Benambra	4,843
Alexina	Anglesey		Ben Cruachan	Tanjil	2,765
Almond Peak	Ripon		Bindi	Tambo	-
Anakie, Mount	Grant	1,327	Bendock	Croajingolong	}
Angus	Tanjil	'	Ben Nevis	Kara Kara	2,875
Arapiles	Lowan	1,176	Big Hill	Bourke	
Ararat	Ripon	2,020	Big Hill	Evelyn	·
Ararat	Mornington		Birch Hill	Talbot	
${ m Arnold}$	Anglesey, Eve-		Black Mount	Rodney	
	lyn and		Black Hill	Grant	2,310
	Wonnangatta		Black Hill	Grenville	
Arthur's Seat	Mornington	1,031	Black Range	Anglesey	
Atkinson	Bourke	_	Black Range	Polwarth	
Avoca	Kara Kara	2,461	Black Range	Lowan	'
Bald Head	Dargo	4,502	Blackwood, or	Bourke	2,432
Bald	Dargo and	5,541	Myrniong		
	Bogong		Bland	Bourke	
Bald Hill	Ripon	1,117	Blowhard	Ripon	ļ. —
Balmattum	Delatite		Blue Mountain	Bourke	
\mathbf{Range}			Blue Range	Delatite	-
Bainbridge	Dundas		Bogong Mt	Bogong	6,508
Baranhet	Delatite	l — .	Bolangum	Kara Kara	1,225
Baringhup	Talbot	١	Bolga	Benambra	$^{1}2,860$

^{*} The highest mountain on the Australian Continent is Mount Kosciusko in New South Wales; one peak of which is 7,328 feet high.

MOUNTAINS AND HILLS—continued.

Name of Mountain.	County.	Approximate Height above Level of Sea.	Name of Mountain.	County.	Approximate Height above Level of Sea.
Bolton	Talbot	feet.	Cole	Ripon	feet.
Boon	Croajingolong	4,500	Colite	Grant	
Boswell	Ripon	1,748	Concongella	Borung	1,376
Boulder	Buln Buln	1,725	Concord	Anglesey	1,500
Boundary Hill	Anglesey		Conical Hill	Evelyn	
Bowen	Croajingolong		Consultation	Talbot	
Brenanah	Gladstone		Coopragambra	Croajingolong	
Brigg's Bluff	Borung	_	Cooyatong	Benambra	3,270
Brock's Hill	Bourke		Cope	Bogeng	6,015
Brown's Hill Bryarty's Hill	Heytesbury	-	Corranwarrabul	Mornington	l —
Buangor	Evelyn Kara Kara	3,247	Cotterill	Bourke	l —
Buckle	Croajingolong	1,465	Crinoline	Wonnangatta	4,500
Buckrabanyule	Gladstone		Cunningham	Anglesey	1,920
Budgee Budgee	Tanjil and	_	Dandenong	Evelyn and Mornington	2,077
	Wonnangatta		Dargo Hill	Dargo	
Buffalo	Delatite	5,645	Darriwil	Grant	_
Bulla Bulla	Croajingelong		Dawson	Tambo	
Bullancrook Bullarook	Bourke	2,306	Deddick	Croajingolong	
TD 11	Talbot	2,400 5,934	Deboobetic	Kara Kara	
D112.1	Wonnangatta Benambra	2,360	Delegete Hill	Croajingolong	4,307
Buninyong	Grant	2,443	Despair	Anglesey	
Burramboot	Rodney		Difficult	Borung	2,657
Burrowa	Benambra	4,181	Dingle Range Diogenes	Bogong Dalhousie	
Burrumbeep	Ripon	-	Direction	Kara Kara	
Hill	_		Disappointment		2,631
Byron Callender	Lowan		Djoandah	Wonnangatta	2,000
Ca1	Ripon Rodney		Drummond	Borung	_
Camel's Hump	Rodney Bourke and	3,295	Dryden	Borung	
22444	Dalhousie	0,200	Dundas	Dundas	1,535
Cameron	Talbot		Duneed	Grant	<u>-</u>
Cannibal Hill	Mornington	_	Eccles Eckersley	Normanby Normanby	590 529
Carlyle	Croajingolong	1,189		Gladstone	923
Cardinal, The	Ripon	-	Egerton	Grant	
Castle Hill	Borung Wonnangatta	4,860	Elephant	Hampden	1,294
Castle Hill	Anglesey	2,120	Eliza	Mornington	530
Cavendish	Dundas	2,120	Ellery	Croajingolong	4,251
Cavern	Talbot and	_	Ellery E. Bump	Croajingolong	3,908
	Ripon	·	Emu	Ripon	1,687
Chalamber	Ripon	1,549	Emu	Hampden	-
Chalicum	Ripon	1,594	Enterprise	Wonnangatta	
Charlton Hill	Dargo	2,090	Erica	Tanjil	$\frac{4,800}{1,539}$
Chaucer	Normanby	_	Erip Everard	Grenville Croajingolong	1,200
Christmas Hills Clay	Evelyn Normanby	622	Everard Fainter	Bogong	
Cobbler	Delatite	5,349	Fainting Range	Tambo	_
Cobboras	Tambo	6,030	Fatigue	Buln Buln	2,110
Coghill's Creek		_	Feathertop	Bogong	6,306

MOUNTAINS AND HILLS—continued.

					r
Name of Mountain.	County.	Approximate Height above Level of Sea.	Name of Mountain.	County.	Approximate Height above Level of Sea.
		e			feet.
		feet	T 1: 4 35	T71	3,631
Feguson's Hill	Polwarth	708	Juliet, Mount Kangaroo	Evelyn Normanby	3,031
Forest Hill	Tambo on the N.S.W.	5,000	Range	Mornianoy	
	frontier		Kav	Croajingolong	3,284
Forest Hill	Talbot	_	Keilawarra	Moira	
Franklin	Talbot	2,092	Kent	Wonnangatta	5,129
Franklin Range	Bogong	·	Kerang	Gladstone	_
Friday	Dargo	2,700	Kerang	Gunbower	
Fyans	Hampden	957	Kerange Moor-	Polwarth	_
Gap	Talbot	_	ah	m::1	4,800
Gaspard	Talbot		Kernot	Tanjil Buln Buln	740
Gellibrand	Grenville	871	Kersop Peak Kincaid	Normanby	655
Genoa Peak	Croajingolong	1,611	Kincaid	Hampden	908
George Gibbo	Polwarth Benambra	5,764	Kirk's Hill	Ripon	
Gibbo Glasgow	Talbot	0,104	Koala	Dalhousie	
Glenrowen	Moira	1.680	Koang	Hampden	891
Good Morning	Ripon	1,716	Kooroongh	Talbot	
Bill	Terposi	1,	Kooyoora	Gladstone	_
Gowar	Gladstone		Korong	Gladstone	1,408
Graham	Evelyn		Kororoit	Bourke	_
Granyah	Benambra	3,620	Kurtweeton	Hampden	
Green Hill	Dalhousie	_	Lady Franklin	Bogong	1,789
Green Hill	Grenville		Lady Mount	Ripon	_
Greenock	Talbot		Langdale Pike	Polwarth	1 002
Gregory	Evelyn, Won-	4,000	Landsborough	Kara Kara	1,903
	nangatta,		Hill Langi Ghiran	Ripon	3,123
TT 214	and Tanjil	1.050	La Trobe	Buln Buln	2,366
Hamilton Hardie's Hill	Hampden Grenville	1,050	La Trobe's	Polwarth	2,000
Hat Hill	Delatite	2,544	Range	1 OTWALEN	
Heath Point	Normanby	627	Lawaluk	Grenville	_
Hermit	Bogong		Leading Hill	Mornington	
Hesse	Grenville		Leinster	Dargo and	-
Hoad	Dargo	2,160		Benambra	
Hoddle Range	Buln Buln	i	Leura	Hampden	1,030
Hollowback	Talbot	- ·	Lianiduk	Karkarooc	4 00=
Hill			Livingstone	Bogong	4,007
$\underline{\mathrm{Hooghly}}$	Gladstone		Liptrap	Buln Buln	551
Hope	Gunbower	1	Loek	Bogong	5,900
Hope	Benambra	4,505	Lookout (2)	Karkarooe Tanjil	3,500
Hore's Hill	Benambra Villiers		Lyall	Mornington	3,500
Hotspur	***	6,100	Macedon	Bourke	3,324
Hotham Howe Hill	Bogong Croajingolong	1,292	Mackenzie	Anglesey	
Howett	Delatite	5,718	Mackersey	Dundas	
Hume's Range	Bourke	","	Magdala	Wonnangatta	
Hunter	Buln Buln	1,136	Maindample	Delatite	
Ida	Rodney	1,537	Major	Moira	1,251
Jeffcott	Kara Kara	<u> </u>	Mannibadar	Grenville	<u> </u>
Jenkins	Weeah	339	Maramingo	Croajingolong	1,274
				•	

MOUNTAINS AND HILLS-continued.

	1		11		
Name of Mountain.	County.	Approximate Height above Level of Sea.	Name of Mountain.	County.	Approximate Height above Level of Sea.
		feet.			feet.
Martha	Mornington	544	Prospect	Anglesey	
Martin	Bogong	-	Puckapanyal	Anglesey Dalhousie	1,025
Matlock	Wonnangatta	4,544	Hill	Damousic	
Maxwell	Anglesey	740	Puzzle Range	Anglesey	
Melbourne Hill	Bourke	-	Pyramid Hill	Gunbower	-
Meningorot	Hampden	766	Quoin Hill	Talbot and	
Mercer Misery	Grenville		To , 77711	Ripon	
Misery Mitchell	Ripon	_	Raven's Hill	Kara Kara	
Moliagul	Gladstone	_	Ravenscroft Hill	Ripon and	_
Mournot	Ripon		Raymond	Talbot Croajingolong	980
Monda	Evelyn and	2,974	Red Hill	Buln Buln	700
	Anglesey	, , ,	Red Hill (Mount		1,211
Monk, The	Talbot	-	Weejort)	I	,
Moolort	Talbot		Richmond Hill	Normanby	727
Moorokyle Moornambool	Talbot		Riddell	Evelyn	-
Moorul	$egin{array}{cccc} { m Ripon} & \dots & \ { m Talbot} & \dots & \ \end{array}$	_	Ross	Ripon	-
Moriac	Grant	839	Rouse	Villiers Polwarth	1,220
Mormbool	Dalhousie		Sabine	Polwarth Delatite	$1,912 \\ 3,138$
Mueller	Tanjil	5,400	Sargent	Talbot	3,136
Murindal	Tambo	_	Scobie	Rodney	_
Murramurrang-	Bogong		Selwyn	Wonnangatta	-
bong Myrtoon	TT 1			and Dela-	
Myrtoon Nanimia	Hampden Ripon	713	g	tite	
Napier	Normanby	1,453	Separation Shadwell	Delatite	000
Navarre Hill	Kara Kara	1,455 $1,355$	Shadwell	Hampden Evelyn	962
Nibo	Anglesey	1,555	Range	Evelyn	
Noorat	Hampden	1,024	Shillinglaw	Wonnangatta	
Norgate	Buln Buln	1,390	Serra Range	Dundas and	
Notch Hill	Dargo	4,507		Ripon	
Nowa Nowa Oberon	Tambo		Singapore	Buln Buln	451
Ochtertyre	Buln Buln	1,968	Singleton	Wonnangatta	
One-Mile Hill	Bogong Talbot		Sister Rises Sisters	Hampden	
One-tree Hill	Evelyn		Sisters Skene	Anglesey Wonnangatta	_
One-tree Hill	Normanby		Smeaton	Talbot	_
Paradox	Anglesey		Snake's Ridge	Buln Buln	
Peter's Hill	Polwarth	1,280	Snodgrass	Anglesey	
Pierrepoint	Normanby	936	Spring Hill	Gladstone	
Pilot Range	Bogong	_	Spring Hill	Ripon	
Pine Mount Pininbar	Benambra Benambra	4,100	Spring Hill	Talbot	4,900
Pisgar	Ripon and Tal-	4,100	Square Mount Stanley	Dargo Bogong	3,444
	bot		Station Peak	Grant	1,154
Pleasant	Rodney .:		Stavely Range	Villiers	1,070
Pollock	Grant	<u>-</u>	Steel's Hill	Evelyn	·—
Porndon	Heytesbury	947	Steiglitz	Bourke	
Powlett's Hill	Talbot	· . —	St. Bernard	Bogong	5,060

MOUNTAINS AND HILLS-continued.

Name of Mountain,	County.	Approximate Height above Level of Sea.	Name of Mountain.	County.	Approximate Height above Level of Sea.
		feet.			feet.
St. George	Polwarth		Tower Hill	Villiers	322
St. Gwinear	Tanjil	5,000	Traawool	Anglesey	
St. Leonard's	Evelyn and		Twins, The	Delatite and	5,582
	Anglesey			Wonnangatta	· ′
St. Mary's Hill	Ripon		Tyers	Tanjil	4,900
St. Phillack	Tanjil	5,210	Upton Hill	Delatite	
Strathbogie	Delatite		Useful	Wonnangatta	4,720
Ranges				and Tanjil	
Sturgeon	Dundas	1,946	Valentia	Wonnangatta	
Sugarloaf	Evelyn		Vandyke	Normanby	
(Bear's)	75.11		Vereker	Baln Baln	2,092
Sugarloaf	Dalhousie	_	Victoria Range	Dundas	-
(Mt. Piper)			Vite Vite	Hampden	
Suggan Buggan	Tambo		Wagra	Benambra	2,638
Survey Peak Table Top	Anglesey Delatite		Wallace	Grant	
701 11 · ·	-	-	Wallerson	Tambo	
m 11 1		2,652	Warrambal	Wonnangatta	
Tallarook Talgarna	Anglesey Benambra	$\frac{2,032}{2,101}$	Warrenheip	Grant	2,463
Tambo	Benambra	4,707	Warrion Hill, Gt.	Grenville	921
Tamboritha	Wonnangatta	5,381	Warrnambool	TT J	710
Tara	Tambo	2,009	Watershed Hill	Hampden Ripon	712
Tarrangower	Talbot	1,861	Weejort	(See Red Hill)	_
Taylor	Dargo	1,571	Wellington	Mornington	314
Telegraph Hill	Ripon	1,854	Wellington	Wonnangatta	5.355
Templar	Tatchera		(Trig)	and Tanjil	0,000
Tennyson	Croajingolong	3,422	Wellington	Tanjil	5,269
Terrick Terrick	Gunbower		(Nap-Nap-		.0,200
Thackeray	Dundas	_	Marra)		
The Brothers	Benambra	4,667	Wermatong	Benambra	_
The Sisters	Benambra and	4,038	Whittaker's	Croajingolong	
	Dargo		Widderin	Hampden	1,132
Timbertop, or	Wonnangatta	_	William	Ripon and	3,827
Warrambat				$\mathbf{\tilde{B}orung}$	
Tingaringy	Croajingolong	4,771	Wills	Bogong	5,758
Tikatory Hill	Delatite	2,002	Wilson	Buln Buln	2,350
Tom's Čap	Buln Buln	1,258	Wilson	Bourke	
Tongio Tooborac Hills-	Tambo		Wiridgil	Hampden	
m , ,	Dalhousie Anglesey and	5 001	Wombat	Delatite	2,659
Torbreck	Anglesey and Wonnangatta	5,001	Wombat Hill	Talbot	
	vv onnangatta		Yandoit Hill	Talbot	_
Towanga	Bogong	4,151	Zero, Mount	Borung	

Rivers.

With the exception of the Yarra, on the banks of which the metropolis is situated; the Goulburn, which empties itself into the Murray about eight miles to the eastward of Echuca; the La Trobe and the Mitchell, with, perhaps, a few other of the Gippsland streams; and the Murray itself, the rivers of Victoria are not navigable except by boats. They, however, drain the watershed of large areas of country, and many of the streams are used as feeders to permanent reservoirs for irrigation and water supply purposes and manufactures. The Murray, which forms the northern boundary of the State, is the largest river in Australia. Its total length is 1,300 miles, for 980 of which it flows along the Victorian border.* Several of the rivers in the north-western portion of the State have no outlet, but are gradually lost in the absorbent tertiary flat country through which they pass. The names and lengths of the principal Victorian rivers, with their positions and approximate lengths, recently corrected by the Surveyor-General, Mr. J. M. Reed, according to the latest information, are as follow:—

RIVERS IN VICTORIA.

Name of River.		Position.			
Aberfeldy		Tanjil. Falls into Thomson	Miles.		
Acheron		Anglesey. Falls into Goulburn, 4 miles S. of Alexandra	35		
Aire		Polwarth. Falls into sea, 6 miles W. of Cape Otway	25		
Arthur's Creek		Evelyn. Falls into Yarra Yarra	30		
Avoca		Tatchera, and western boundary of Gladstone	163		
Avon, or Dunlop		Taniil. Flows into Lake Wellington	60		
Avon		Kara Kara. Source about a mile N. of Navarre	55		
Back Creek		Moira. Falls into Broken Creek	60		
Back Creek		Villiers. Falls into Moyne	25		
Baillie's Creek		Ripon. Falls into Mount Emu Creek	20		
Barkly		Wonnangatta. West of Macallister	20		
Barr Creek		Bendigo. Falls into Murrabit	20		
Barwon	••	Grant. Runs into Lake Connewarre. Part of W. boundary of county	95		
Bass		Mornington. Falls into Western Port near East Head	35		
Bemm		Croajingolong. Falls into sea at Sydenham Inlet	60		
Benambra Creek		Benambra. Near Lake Omeo	45		
Bet Bet Creek		Between Talbot and Gladstone. Falls into Loddon	70		
Big		Wonnangatta. Joins Goulburn, 16 miles S.W. of Mansfield	32		
Birregurra Creek		Polwarth and Grenville. Falls into Barwon	20		
Black		Wonnangatta. Falls into Goulburn	24		
Boggy Creek		Tambo. Falls into Lake Tyers	20		
Boort Creek		Gladstone. Overflow from Loddon into Lake Boort	25		
Bream Creek		Grant. Falls into the sea W. of Barwon	30		
Broadbent Creek		Croajingolong. Falls into Snowy River	25		

^{*} From the source of its longest tributary, the Darling, to the Murray mouth, the total length of this river is 2,345 miles.

Name of River.	Position.	Approxi- mate Length.
		Miles.
Brodribb		80
Broken		120
Broken Creek	S. of Shepparton Moira, effluent of Broken River. Falls into Murray near Lake Moira	120
Broken Creek	D: THE STATE OF THE CONTRACTOR	20
Bruthen Creek	The Dr. Thurs Cl. 1T1.	25
Buchan	m 1 m 1 Co - Dimen from west	75
Buckland	70 1 111 40 11 6 77 - 6 377	35
Buffalo		50
Bullabul Creek .	OLIV THE TITE	30
Bullarook Creek .	Ripon. Falls into Tullaroop Creek	35
Bundarrah .		25
Buneep ,	Part of eastern boundary of Mornington	20
Burnt Creek	Borung. Falls into Wimmera	30
Burrumbeet Creek .		35
Campaspe .	TO 13	150
Cann	G: I The He into Manches Tolot 5	55
Castle Creek	D 1 424 B 11. 2 4 C 11	50
Chetwynd	TS 1	30
Cherry-tree Creek		25
Cobungra Creek	TO TO 11 1 4 . NT: 4	26
Cochrane's Creek .	Gladstone. Falls into Avoca	20
Coliban		60
	bot and Dalhousie. Flows into Campaspe	30
Concongella Creek	Borung. Falls into Wimmera	35
Cornella Creek	1 T CI I I C	45
Crawford		25
Cudgee Creek Cudgewa Creek		45
0 11 1 D:	Towong Towns for Tales Downson between	50
Curdie's River	Falls into sea, 28 miles S.E. from Warrnam- bool	90
Corryong Creek	D 1 77 11 1 1 35 9 11 N of	55
Dabyminga Creek		35
Dandenong Creek		30
Dargo	Dargo. Joins Mitchell River	85
Darlot's Creek	N	25
Dart	Benambra. Falls into Mitta Mitta	25
Delatite, or Devil's	Boundary between Delatite and Wonnangatta.	60
River	Joins the Goulburn, 10 miles below Darlingford	
Deegay Ponds	Dalhousie. Falls into Goulburn	20

Name of River.	Position.	Approxi- mate Length.
•		Miles.
Delegete	Croajingolong. Joins Snowy River in New South Wales	30*
Doma Mungi	Bogong. Falls into Murray	45
Drysdale Creek		25
Dundas	Villiers. Falls into Merri	20
Dunmunkle Creek	Borung. Effluent of Wimmera	60
Dwyer's Main Creek	Normanby. Falls into Wannon	25
Emu Creek	Bourke. Falls into Saltwater	30
Eumerella Ferrer's Creek	Normanby. Falls into Lake Yambuk	80
Ferrer's Creek	Grenville. Falls into Woady Yaloak	35
Fiery Creek	Ripon. Falls into Lake Bolac	90
Fifteen-Mile Creek	Delatite. Joins Three-Mile Creek	50
Fitzroy	Normanby. Falls into Portland Bay	35
Ford's Creek	Delatite. Falls into Delatite	20
Franklin	Buln Buln, at Corner Inlet, W. of Welshpool	25
Fitzroy	Borung. Falls into Lake Lonsdale	30
	Polwarth. Falls into sea, 23 miles W. of Cape Otway	75
Genoa	Croajingolong. Falls into sea, 12 miles S.W. of Cape Howe	45†
Gibbo	Benambra. Falls into Mitta Mitta	25
Glenelg	Normanby. Part of western boundary of county; a bend at the mouth enters South	281
Gnarkeet Ponds	Australia Hampden, on eastern boundary. Falls into Lake Corangamite	30
Goulburn	Anglesey, part of western boundary of county.	345
Gray's Creek	Villiers. Falls into Hopkins	25
Gunbower Creek	Villiers. Falls into Hopkins	75
Happy Valley Creek	Bogong. Falls into Ovens	20
Henty's Creek	Normanby. Falls into Wannon	25
Hodgson's Creek		20
Holland	Delatite. Source at Wombat Hill and Tabletop. Joins Broken River at Benalla	45
Hopkins	Villiers. Falls into sea at Warrnambool	155
Howqua	Wonnangatta. Rises at Mount Howitt. Falls into Goulburn	45
Hughes' Creek	Anglesey, part of northern boundary of county. Falls into Goulburn	50
Indigo Creek	Bogong. Falls into Murray	20
Jackson's Creek	Bourke. Falls into Saltwater	55
Jamieson	Wonnangatta. Falls into Goulburn	60
Jim Crow Creek	Ripon, part of southern boundary of county. Falls into Loddon	35
Jingallala or Deddick	Croajingolong. Joins Snowy from eastward	37
Joyce's Creek	Ripon. Falls into Middle Creek	· 35
Kiewa	Ripon. Falls into Middle Creek Bogong. Falls into Murray, 8 miles below confluence of Mitta Mitta with Murray	95
King	Delatite. Joins Ovens at Wangaratta	90
King Parrot Creek	Anglesey. Falls into Narrangeanong	20

^{*} Length in Victoria only.

[†] Length in Victoria only; total length, 60 miles.

Name of River.	Position.	Approxi- mate Length.
		Miles.
Koetong Creek .	. Benambra. Falls into Murray	25
Koroit Creek .	Nonnegative Tellaria XX	35
Kororoit Creek .	Pourles Falls into Wannon	1
		40
- - , -	, , , , , , , , , , , , , , , , , , , ,	30
La Trobe		140
T ' 1 / TT	Boundary between Tanjil and Buln Buln	
Leigh (see Yarrowee		
Lerderderg .		35
Lindsay		35
Little	. Grant. Falls into Port Phillip Bay	40
Little	. Tambo. Falls into Tambo	15
Little Woady Yaloa	Grenville. Falls into the Woady Yaloak	20
	. Talbot, and western boundary of Bendigo and	$2\overline{25}$
	Gunbower. Joins Murray at Swan Hill	220
Macallister .	Tanjil and Wonnangatta. Falls into Thomson	115
Marraboor .		
35 13 3 0 1		35
35	·	20
Merri		40
Merri Merri Creek .		50
	Buln Buln. Falls into sea at Ninety-mile Beach	60
	Ripon. Falls into Loddon	40
Mitchell	Boundary between Dargo and Tanjil. Falls into Lake King	80
Mitta Mitta .	Boundary between Benambra and Bogong. Joins Murray about 8 miles east from Wodonga	175
McKenzie	Borung. Falls into Wimmera, 5 miles W. of Horsham	55
Moorarbool .	Grant. Joins Barwon at Fyansford, near Gee-	80
Moroka	long Wenner mette Jeine Wenner mette 19 miles	
	N. of Mount Wellington Wonnangatta, 12 miles	30
Morwell	Buln Buln. Tributary of La Trobe	35
Mountain Creek .	. Croajingolong. Falls into Snowy	25
Moyne	. Villiers. Falls into sea at Belfast	45
Mount Cole Creek .		25
Mount Emu Creek .		150
Mount Greenock Cre		35
Mount Hope Creek	Bendigo and Gunbower. Falls into Kow Swamp	120
Mount Pleasant Cree		25
Mount William Cree	Borung. Falls into Lake Lonsdale, thence into	80
Muckleford Creek .	Wimmera, 12 miles E. of Horsham Talbot. Falls into Loddon	000
Muddy or Pranji		$\begin{vmatrix} 20 \\ 35 \end{vmatrix}$
Creek	37 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Northern boundary line of State of Victoria	980*
	Bendigo. Falls into Loddon	35
	. Tambo. Falls into Buchan	35
	. Villiers. Falls into Hopkins	50
	. Bendigo	30
3.5 (1 (V 1	Ripon, part of north boundary. Falls into Coliban	20
Naringhil Creek .	. Grenville. Falls into Woady Yaloak	30

^{*} Length in Victoria only; total length, 1,300 miles.

Itt v Ergs Communacu.				
Name of River		Position	Approxi- mate Length.	
			Miles.	
Nicholson		Dargo. Falls into Lake King	50	
Norton Creek	. • •. • •	Lowan, part of eastern boundary. Falls into	35	
Notion Cleek	• •	Wimmera	30	
Outlet Creek		Weeah. Flows from Lake Hindmarsh into Lake	80	
Ovens		Albacutya; thence north to Pine Plains Boundary between Bogong, Delatite, and Moira. Joins Murray, 23 miles below Wangaratta	140	
Perry		Tanjil. Falls into Lake Wellington	38	
Plenty		Bourke. East boundary of county	35	
Pyramid Creek		Bendigo and Gunbower. Falls into Loddon at	160	
1 yrainia croom	• •	Kerang		
Reedy Creek		Bogong. Falls into Ovens	45	
Richardson	••`	Kara Kara. Joins Avon about 26 miles N.W. from Navarre	35	
Rose		Delatite. Falls into Buffalo	50	
Salt Creek		Hampden, outlet of Lake Bolac. Falls into	35	
Saltwater		Hopkins Bourke. Joins the Yarra at Footscray	170	
Serpentine Creek	• •	Bendigo. Falls into Loddon	35	
Seven Creeks		Delatite. Falls into Goulburn	35	
Shaw		Villiers. Falls into Lake Yambuk	20	
Snowy		Tambo and Croajingolong. Falls into sea near	120*	
Snowy Creek		Point Ricardo Bogong. Falls into Mitta Mitta	26	
Spring Creek		Villiers. Falls into Merri Merri	30	
Stokes, or Emu		Normanby. Joins the Glenelg, 5 miles N. of	30	
C4 C1		Dartmoor	32	
Stony Creek	• •	Delatite. Falls into Violet Ponds	30	
Sugarloaf Creek	• •	Dalhousie. Falls into Goulburn	35	
Sunday Creek Surrey	• •	Dalhousie. Falls into Sugarloaf Creek	28	
Surrey	• •	Normanby. Falls into Portland Bay	28	
Sutherland Creek		Grant. Falls into Moorarbool	20	
Tallangatta Creek		Benambra. Falls into Mitta Mitta	40	
Tambo, or Thomso	on	Boundary between Tambo and Dargo. Falls into Lake King	120	
Tanjil		Buln Buln and Tanjil. Falls into La Trobe	- 50	
Tarra Tarra	• •	Buln Buln. Falls into Shoal Inlet, near Tarra-	25	
Tarwin		Buln Buln. Falls into sea at Anderson's Inlet	60	
Thomson		Tanjil. Falls into La Trobe	100	
Thowgla Creek		Benambra. Falls into Corryong Creek	30	
Thurra		Croajingolong. Falls into sea at Cape Everard	55	
Toonginbooka		Tambo. Joins Snowy River	30	
Tom's Creek		Tanjil. Falls into Lake Victoria	20	
Trawalla Creek		Ripon. Falls into Mount Emu Creek	20	
Tsheea Creek		Rodney. Falls into Murray	25	
Tullaroop Creek		Talbot. Falls into Loddon near Eddington,	120	
	.	with Creswick's and Adekate Creeks		
Tyers		Tanjil. Tributary of La Trobe	35	
Tyrrell Creek		Kara Kara and Tatchera. Effluent of Avoca.	95	
		Falls into Lake Tyrrell	I	

^{*} Length in Victoria only; total length, 300 miles.

Name of River.	Position.	Approxi mate Length.
		Miles,
Victoria	Bogong. Falls into Mitta Mitta, 8 miles W. of Lake Omeo	30
Violet Ponds	Moira. Falls into Goulburn	35
Wabba Creek	Benambra. Falls into Cudgewa Creek	20
Wallpolla Creek	Millewa. Falls into Murray	30
Wando	Dundas. Falls into Wannon	25
Wannon	Dundas. Part of south boundary of county	150
Watts	Evelyn. Falls into Yarra Yarra	25
Warrambine Creek	Grenville. Falls into Barwon	45
Wellington	Wonnangatta	24
Wentworth	Dargo. Falls into Mitchell	55
Western Moorarbool	Grant. Falls into Moorarbool	30
Werribee	Bourke, West boundary of county	70
Whorouly	Delatite. Joins Ovens about 15 miles S.E. of Wangaratta	20
Wimmera	Wimmera district. Falls into Lake Hindmarsh	228
Wingan	Croaingolong. Falls into sea at Ram Head	30 *
Woady Yaloak	Grenville. Flows from north into Lake Corangamite	60
Wongungarra	Falls into Wonnangatta, 43 miles N.W. of Lake Wellington	50
Wonnangatta	Falls into Mitchell	75
Woori Yaloak	Evelyn. Joins Yarra Yarra about 4 miles west from Warrandyte	25
Yackandandah Creek	Bogong. Falls into Kiewa	30
Yarra Yarra	Bourke. Falls into Hobson's Bay	150
Yarriambiack Creek	Borung. Effluent of Wimmera. Falls into Lake Coorong	95
Yarrowee, or Leigh	Grant. Joins Barwon at Inverleigh	80
Yea	Anglesey. Falls into Goulburn	35

LAKES.

Victoria contains numerous salt and fresh water lakes and Lakes. lagoons; but many of these are nothing more than swamps during dry seasons. Some of them are craters of extinct volcanoes. Lake Corangamite, the largest inland lake in Victoria, covers 90 square miles, and is quite salt, notwithstanding it receives the flood waters of several fresh-water streams. It has no visible outlet. Lake Colac, only a few miles distant from Lake Corangamite, is a beautiful sheet of water, 10½ square miles in extent, and quite fresh. Lake Burrumbeet is also a fine sheet of fresh water, embracing 8 square miles. The Gippsland lakes—Victoria, King, and Reeve—are situated close to the coast, and are separated from the sea only by a narrow belt of sand. Lake Wellington, the largest of all the Gippsland lakes, lies to the westward of Lakes Victoria and King, and is united to the first-named by a narrow channel. South-east

of Geelong is Lake Connewarre, connected with the sea at Point Flinders. The following is a list of the lakes in Victoria, with their localities and areas, supplied by Mr. Surveyor-General Reed:—

LAKES IN VICTORIA.

(Those lakes which contain fresh water are distinguished by the letter f, and those which consist of salt or brackish water are indicated by the letters s and b respectively.)

Name of Lake.		Position	Approxi- mate Area.
			Acres.
Albacutya		Weeah, 10 miles N. of Lake Hindmarsh (/)	14,430
Albert Park		South Melbourne (f)	105
Bael Bael		Tatchera, 9 miles W. of Kerang (f)	1,075
Baker		Tatchera, 7 miles S.E. of Castle Donnington (f)	700
Barracootta		Croajingolong, 6 miles W. of Cape Howe (f)	600
Beeac		Grenville, 10 miles N. of Colac (s)	1,500
Birdebush		Hampden, 8 miles N.W. of Camperdown (b)	64
Bitterang		Karkarooc, 45 miles N.W. of Lake Tyrrell (f)	180
Boga		Tatchera, 8 miles S.E. of Castle Donnington (f)	2,120
Bolac		Ripon, 6 miles E. of Wickliffe (f)	3,500
Bookaar		Hampden, 6 miles N.W. of Camperdown (b)	1,075
Booroopki		Lowan 14 miles E. of South Australian boundary	1,030
*		line (f)	
Boort		Gladstone, fed by overflow of Loddon (f)	1,127
Bringalbert	• •	Lowan, 10 miles N.E. of Apsley (f)	250
Bullen Merri		Hampden, 1 mile S.W. of Camperdown (b)	1,330
Buloke		Borung, 4 miles N. of Donald (occasionally dry	600
	• •	for a series of years) (f)	
Bunga		Tambo, 3 miles S.W. of Lake Tyers (f)	300
Bungaa		Tanjil, 90-mile beach (b)	1,000
Buninjon	• • •	Ripon, 6 miles S.W. of Ararat (f)	430
Burn		Grenville, 10 miles N.E. of Colac (s)	130
Burrumbeet	• • •	Ripon, 10 miles W. of Ballarat (f)	5,200
Calvert	• • • • • • • • • • • • • • • • • • • •	Grenville, 5 miles N. of Colac (s)	5,200
Cantala		Karkarooc, 44 miles N.W. of Lake Tyrrell (f)	250
Carchap		Lowan, 20 miles N. of Mostyn (f)	220
Catcarrong		Villiers, near township of Winslow (t)	80
Catherine	•••	Polwarth, W. boundary of county, 13 miles from sea (f)	130
Centre		Lowan, 10 miles N.W. of Mostyn (t)	660
Charm		Tatchera, 10 miles N. of Kerang (j)	1,390
Clear		Lowan, 17 miles N. of Mostyn (j)	300
Colae	٠.	Polwarth, at Colac (f)	6,650
Colongulac		Hampden, 3 miles N. of Camperdown (b)	3,500
Connewarre	·	Grant, 5 miles S.E. of Geelong (tidal)	3,880
Cooper		Rodney, 9 miles E. of Runnymede (t)	2,400
Coorong		Karkarooc, fed by Yarriambiak Creek (f)	2,000
Cope Cope		Kara Kara, 16 miles N.W. of St. Arnaud (f)	400
Coragulae	• •	Grenville, 7 miles N.W. of Colac (b)	90
Corangamite		Grenville (s)	57,700
Corringle		Tambo, 2 miles from coast (f)	400
Craver		Polwarth, 5 miles N.W. of Cape Otway (tidal)	200
Cullens		Tatchera, 8 miles N.W. of Kerang (t)	1,660
Cundare		Grenville, 12 miles N. of Colac (s)	350
Curlip		Croajingolong, fed by overflow of Snowy River (f)	400
Denison	• • •	Buln Buln, 28 miles N.E. of Alberton (t)	350
Dock		Borung, 6 miles S.E. of Horsham ((f)	370
Doling Doling		Dundas, 3 miles N.E. of Hamilton (f)	50

LAKES—continued.

(Those lakes which contain fresh water are distinguished by the letter f, and those which consist of salt or brackish water are indicated by the letters s and b respectively.)

Name of Lak	æ.	Position.	Approxi- mate Area.
TO TO			Acres.
Drung Drung or lor's	Tay-	Borung, 11 miles S.E. of Horsham (/)	750
Duck		Tatchera, 6 miles N.W. of Kerang (f)	870
Durdidwarrah	٠.	Grant, reservoir for town of Geelong, 25 miles N.W. (f)	-
Elingamite		Heytesbury, 11 miles S.W. of Camperdown (f)	800
Elizabeth		Tatchera, 5 miles W. of Kerang (f)	200
Eyang		Hampden, 9 miles E. of Chatsworth (f)	180
Furnell		Croajingolong, 8 miles N.W. of Cape Everard (f)	800
Garnouk		Tatchera, 10 miles S.E. of Castle Donnington (t)	500
Garry		Moira, 10 miles N.W. of Shepparton (/)	1,700
Ghentghen		Ripon, 5 miles E. of Wickliffe (s)	40
Gherang Gherang Gnarpurt		Grant, 3 miles E. of Winchelsea (f)	250
Gharpart	• •	Hampden, at Northern extremity of Lake Corangamite (s)	5,800
Gnotuk		Hammdon O IL - W. CO I ()	000
Goldsmith	• • •		600
Goulburn Weir		Moins and Dad(1)	2,130
Green		Borung, 7 miles S.E. of Horsham (f)	4,500 250
Hattah		Karkarooc, 42 miles N.W. of Lake Tyrrell (f)	150
Hindmarsh		Lowan, fed by Wimmera River (f)	30,000
Jollicum		Hampden, 4 miles S.W. of Streatham (f)	130
Kakydra	• •	Tanjii, 7 miles E. of Sale (b)	452
Kanaguik	• •	Lowan, 6 miles N.E. of Mostyn	870
Kangaroo Kariah	• •	Tatchera, 11 miles N.W. of Kerang (f)	2,250
Tr 1	• •	Hampden, 5 miles N.E. of Camperdown (b)	3 50
Karnak Keilambete	• •	Lowan, 18 miles N.E. of Edenhope (b)	300
Kemi Kemi		Hampden, 15 miles W. of Camperdown (b) Lowan, 2 miles S. of Edenhope (f)	770
Kennedy		Villiana 9 miles WW - CD 1 (7)	130
Kerferd		Roger Posstanist W. (C 1 //)	690 100
King		Tanjil, near Bairnsdale, 23 miles N.E. of Sea-	22,500
-		combe (tital)	22,500
Konardin	• •	Karkarcoc, 44 miles N.W. of north shore of Lake Tyrrell (f)	300
Koreetnung		Hampden, 6 miles N.E. of Camperdown (s)	560
Kow	٠.	Gunbower (f)	6,800
Laanecoorie Weir	٠.	Bendigo and Gladstone (f)	1,620
Lalbert Leaghur	• •	Tatchera, 31 miles W. of Kerang (f)	1,250
Leagnur Learmonth	• •	Tatchera, 18 miles S.W. of Kerang (f)	130
Linlithgow	• •	Ripon, 11 miles N.W. of Ballarat (f)	1,200
Little	• •	Villiers, 8 miles N.W. of Penshurst (b) Tatchera, 10 miles S.W. of Kerang (f)	2,450
Lockie		Karkarooc, 42 miles N.W. of Lake Tyrrell (f).	80
Long		Tatchera, 8 miles S.E. of Castle Donnington (f)	350 500
Lonsdale		Borung, 7 miles S.W. of Glenorchy (f)	$\begin{array}{c} 500 \\ -6.000 \end{array}$
Lookout		Tatchera, 14 miles W. of Kerang	130
Mallacoota		Croajingolong, 12 miles W. of Cape Howe (tidal)	1,700
Malmsbury		Daihousie and Talbot, reservoir for northern	640
		gold-fields' population, borough of Malms-	
Mannaor		bury (f) Tatchera, fed by overflow of Murray (f)	40
3633.	•		40
5000,		C	

Lakes—continued.

(Those lakes which contain fresh water are distinguished by the letter f, and those which consist of salt or brackish water are indicated by the letters s and b respectively.)

Name of Lake.	Position.	Approxi- mate Area.
		Acres.
Marmal	Gladstone, 12 miles N.E. of Charlton (f)	250
Marsh, The	Tatchera, 10 miles N.W. of Kerang (f)	1,700
Meering	Tatchera, 11 miles S.W. of Kerang (f)	500
Melanydra	Tanjil, 6 miles E. of Sale (b)	153
Middle	Tatchera, 4 miles N. of Kerang (f)	560
	Lowan, 20 miles N.W. of Mostyn (f)	230
·	Lowan, 20 miles W. of Horsham (s)	1,280
Mitre Modewarre	Grant, 6 miles E. of Winchelsea (s)	1,025
	Bogong, 3 miles W. of Rutherglen (f)	850
Moodemere	Lowan, 13 miles N. of Edenhope (f)	180
Morea	Tree 1 44 '1 NT TOT of Tales (Permol) (1)	600
Mournpall Mundi	Follett, 1 mile E. of South Australian boundary line (f)	1,280
M J. darles	Grenville, 25 miles W. of Geelong (s)	2,800
Murdeduke	FF . 1 (f)	560
Murphy's Natimuk	Tatelleta (f)	922
		1,966
Omeo	C 21 F 21 N of Colon (a)	250
Ondit	TT 1 F 11 C W of Otmosthom (1)	180
Oundell		160
Paragalmir .	Tetahara 2 miles W. of Kerang (f)	9
Pelican	Tabellera, Z miles W. of Reland	50
Pertobe	Rorung 8 miles S.E. of Horsham (t)	36
Pine		200
Pine Hut		329
Powell		6
Punpundhal .	Hampden, W. of Lake Corangamite (s)	3
Purgagoolah .	Croajingolong, 18 miles W. of Cape Howe (tidal)	1.45
Purumbete .	Heytesbury, 4 miles S.E. of Camperdown (f)	19
Racecourse .	. I stenera. III lilles IV. VI. of iterate ()	55
Reedy ·	Tatchera, 3 miles N. of Kerang (f)	9,00
Reeve	(tidal)	
Repose	. Villiers, 7 miles S.E. of Dunkeld (f)	28
_ *.	. Grenville, 3 miles W. of Cressy (s)	38
Round	. Tatchera, 10 miles S.W. of Kerang (f)	1
Salt Lakes .	. Weeah, 46 miles N.W. of Lake Albacutya (s)	4,48
G 1:	. Grenville, 9 miles N.E. of Colac (s)	87
70	Ripon, 6 miles N.E. of Streatham (8)	50
	Rinon, 9 miles S. of Beautort (8) · · ·	18
	Lowan, 12 miles N.W. of Mostyn (8)	50
	Lowen 5 miles N.W. of Natimuk (8)	60
	Tatchera, 13 miles N.W. of Kerang (8)	70
,,	Tatchera, 8 miles W. of Kerang (s)	10
***	. Tatchera, 13 miles W. of Kerang (s)	16
	Karkarooc (t)	\int
	Tatchera, 10 miles S.W. of Kerang (f)	12
- (Tittle	Tatchera, 10 miles S.W. of Kerang (f)	4
	Lowan, 4 miles W. of Mount Arapues (1)	23
	Mornington in Phillip Island (t)	1 200
	Crossing clong 8 miles E. of Cape Conran (tidat)	2,30
	Crossingolong, 8 miles W. of Cape Everard (mad)	1,1
	Hampden, W. of Lake Corangamite (s)	{

Lakes—continued.

(Those lakes which contain fresh water are distinguished by the letter f, and those which consist of salt or brackish water are indicated by the letters s and b respectively.)

Name of Lake.	Position,	Approxi- mate Area.
		Acres.
Tcham	Tatchera, near Birchip (f)	260
Terang	Hampden, 12 miles W. of Camperdown (t)	300
Terang Pom	Hampden, 11 miles N.E. of Camperdown (s)	500
Timboon	(See Colongulae.)	000
Tobacco	Tatchera, 10 miles S.W. of Kerang (f)	25
Tooliorook	Hampden, 4 miles S.E. of Lismore (b)	850
Tower Hill	Villiers, 7 miles N.E. of Belfast (f)	850
Turang-moroke	Ripon, 9 miles E. of Wickliffe (s)	250
Tyers	Tambo, 22 miles west of mouth of Snowy River	3,950
	(tidal)	3,350
Tyrrell	Karkarooc, fed by overflow of Avoca River (s)	42,600
Upper Coliban Reservoir	Talbot and Dalhousie (f)	574
Victoria	Tanjil, 21 miles E. of Sale (tidal)	28,500
Walwalla		1
Transmitter	Millewa, 13 miles S.E. of intersection of South	600
Wallace	Australian boundary line by Murray River (f)	-
Wangoom	Lowan, at Edenhope (f)	450
Waranga Basin	Villiers, 6 miles N.E. of Warrnambool (f) Rodney (f)	200
Wartook Reservoir	Domes a (4)	11,009
War Wart	Borung (f)	2,556
Woomanaamaal	Croajingolong, near Cape Howe (f)	600
Wooming	Hampden, 7 miles N.E. of Camperdown (s)	1,280
Wallington	Grenville, 17 miles N. of Colac (s)	921
Wondownso	Tanjil, 8 miles E. of Sale (f)	34,500
White	Grenville, at Ballarat (f)	500
Wirman	Lowan, 8 miles N.W. of Mostyn (s)	1,400
Woonencel	Hampden, 9 miles N. of Camperdown (s)	60
Wandsa Dalaa	Kara Kara, 10 miles W. of Charlton (t)	250
wurdee Boing	Grant, 5 miles S.E. of Winchelsea (f)	440
Yallakar	Lowan, 7 miles N.E. of Edenhope (f)	
Yambuk	Villiers 10 miles W of Delf of 177	870
Yando	Villiers, 10 miles W. of Belfast (tidal) Tatchera, 22 miles S.W. of Kerang (f)	200
Yan Yean	Evelyn reservoir for small of	200
	Evelyn, reservoir for supply of metropolis, 22	1,360
Yeeangmaria	miles N.E of Melbourne (an artificial lake) (f)	
Yellwell	Ripon, 10 miles E. of Wickliffe (s)	$_{2}75$
Yerang	Karkarooc, 44 miles N.W. of Lake Tyrrell (f)	200
	Karkarooc, 44 miles N.W. of Lake Tyrrell (f)	160

THE FLORA OF VICTORIA.

In the last issue of the Year-Book will be found an interesting and instructive article upon the flora of Victoria, from the pen of Gustav Weindorfer, Esq. (late Chancellor Austro-Hungarian Consulate, Melbourne). That gentleman divides the flora into three main divisions, and describes each in detail in his article.

PRINCIPAL EVENTS.

Principal events. The following are the dates of some of the principal events connected with the history of Victoria since the establishment of the Commonwealth on 1st January, 1901. For principal events prior to that year the reader is referred to previous issues of this work:—

- 1901. January

 1st—Proclamation and inauguration of the Commonwealth at Sydney, and swearing in of the Rt. Hon. E. Barton, first Prime Minister, and other members of the Ministry. State departments of Customs and Excise transferred, whilst those of the Post and Telegraph and Defence followed on 1st March.

 1anuary 22nd—Death of Queen Victoria. Accession of King Edward
 - ,, January 22nd—Death of Queen Victoria. Accession of King Edward VII. His Majesty's Coronation took place on 9th August, 1902.
 - ,, March 31st—Eleventh census of Victoria, and third simultaneous census of Australia and New Zealand.
 - of Australia, in Melbourne, by His Royal Highness
 the Duke of Cornwall and York, Heir-Apparent to
 the Throne, under commission from His Majesty
 King Edward VII.
 - ,, October

 8th—Inter-State free-trade established by the introduction of
 a provisional tariff by resolution of the Commonwealth House of Representatives.
- 1902. September 16th—The Commonwealth Tariff finally passed.
- 1903. April 15th-22nd—Conference of Premiers, held at Sydney. Temporary settlement, pending appointment of the Inter-State Commission, of the rival claims to the waters of the River Murray. The question of taking over of States' debts by the Commonwealth and several other matters were also considered.
 - october

 6th—Inauguration of the Federal High Court, and the swearing-in of Sir Samuel Griffith, late Chief Justice of Queensland, as Chief Justice, and of the Right Hon. Sir Edmund Barton, K.C., late Prime Minister of the Commonwealth, and the Hon. R. E. O'Connor, K.C., as judges.
 - " December 16th—Commonwealth elections. Female franchise exercised for the first time in Victoria.
- 1904. February

 1st—The British Government decided on important changes in the British Army, including the establishment of an Army Council, on the lines of the Board of Admiralty.
 - "February 5th-12th—Conference of States and Federal Treasurers at Melbourne to consider the question of the taking over by the Commonwealth of the States' debts.
 - , March 17th—Death of H.R.H. the Duke of Cambridge. The deceased peer was a grandson of King George III., and first cousin of the late Queen Victoria.
 - , April 8th—Signing of Convention adjusting foreign and colonial questions at issue between Great Britain and France.
 - ,, August oth—House of Representatives chose Dalgety as site for Federal Capital.
 - .. August 10th-Senate agreed to Dalgety site.

1904. December 12th—Appointment of Tariff Commission, in Federal House of Representatives, to inquire into the effect of the operation of Customs Tariff of the Commonwealth of Australia upon Australian industries, and into the working of the Tariff generally.

1905. February 1st—Beginning of the poundage system in English mail contracts.

- ,, February 6th—Conference of Premiers and other Ministers (State and Commonwealth) at Hobart opened.
- ,, February 15th-Tariff Commission opened at Melbourne.
- ,, February 15th—Opening of the Continuation School, Melbourne. The purpose is to give an advanced education to those who wish to qualify as teachers. Details are furnished in part "Social Condition" of this work.
- April 25th—Royal Letters Patent for the Constitution of the Transvaal colony issued. There is to be a Legislative Assembly, to be re-elected every four years, the franchise being extended to every burgher of the late Boer Republic who was entitled to vote for its first Volksraad; and all white Britishers éarning £100 per annum, or occupying a house with a rental of £10 per annum. Power of initiating taxation bills is withheld from the chamber. Members are to receive £2 per day during the session, but not more than £200 per annum. The House comprises the Lieutenant-Governor of the Transvaal, between six and nine official members, and between thirty and thirty-five elected members. The debates will be conducted in English, but, with the President's consent, the Dutch language may be used by members. The Orange River Colony has not yet been given a new Constitution.
- , May

 16th.—Agreement signed between the Butter Export Committee and the White Star, Lund, and Aberdeen lines of steamers, for the carriage of butter. The freight reduction effected by the contract is 50 per cent. on former rates, and the temperature of the butter in transit is not to exceed 20 deg.
- ,, May 24th—Empire Day—first observation in Melbourne.
- ", August 12th—Treaty signed between Great Britain and Japan, renewing, for ten years, the old treaty, and adding thereto.
- ,, August 20th—Peace arranged between Japan and Russia.
- spetember 26th—Text of the English-Japanese treaty made public. The preamble states that the Governments have agreed upon articles having for their object:—First, the consolidation, maintenance, and general peace of the regions of Eastern Asia and India; second, the preservation of the common interests of all the powers in China, by ensuring the independence and integrity of the Chinese Empire, and the principle of equal opportunities in commerce and industry to all nations in China; third, the maintenance of the territorial rights of the high contracting parties, and the defence of their special interests, in the said regions.
- ,, October 30th—Annexation under an Order-in-Council, of Town of North Melbourne and Borough of Flemington and Kensington, with City of Melbourne.

1905. December 5th—Balfour Ministry (Imperial) having resigned, Sir Henry Campbell-Bannerman undertook to form: a Cabinet. Five days later the new Ministry was submitted to the King, and on 11th December the seals of office were transferred. 1906. January 18t—Importation of opium into Australia prohibited (other than for medical purposes). 1910. January 19th—Second annual conference of the Federal Council of the Chambers of Manufactures of the Commonwealth commenced. 1910. January 29th—Opening of the A.N.A. Exhibition of Australian Manufactures. 29th—Death of King Christian IX. of Denmark, father of the reigning Queen of England. 29th—Government loan of £1,600,000, for the purpose of redeeming in part a loan falling due in London, floated with decided success in Melbourne. 19th—Opening of the Imperial Parliament by His Majesty the King. 19th—Opening of the Imperial Parliament by His Majesty the King. 22nd—Loss of the sailing vessel \$\$fpeke\$, wrecked on Phillip Island. 31rd—Tobacco Commission's report (a majority report) to Prime Minister. Nationalization of the tobacco industry favoured. 41th—Death of Mr. G. S. Coppin, veteran actor, at the age of 86 years. March 19th—Mr. L. F. B. Cussen appointed to the Supreme Court Bench. 5th—Conference of Premiers and other Ministers opened at Sydney. The principal subjects discussed were the taking over by the Commonwealth of State debts, the liability for transferred properties, and the disputed territory between Victoria and South Australia. 23rd—Melbourne University jubilee celebrations commenced. 24th—Conference of Federal and State electoral officers opened in Melbourne. 29th—Census of New Zealand. 31uly 12th—Wireless telegraphy installed—Queenseliff (Victoria) to Devonport (Tasmania). 12th—Wireless telegraphy installed—Queenseliff (Victoria) to Devonport (Tasmania). 13th—Wireless telegraphy installed—Queenseliff (Victoria) to Devonport (Tasmania). 13th—Conference of Federal and State public works officers with reference to transferred propert			•
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- 1906. October

 12th—Hon. I. A. Isaacs, K.C., Attorney-General, and Hon.
 H. B. Higgins, K.C., appointed to the High Court
 Bench. In the consequent re-arrangement of Ministerial portfolios, upon the appointment of Mr.
 Isaacs, Hon. L. E. Groom became Attorney-General,
 Hon. T. T. Ewing, Minister of Home Affairs,
 Senator Keating, Vice-President of the Executive
 Council, and the Hon. S. Mauger joined the Cabinet
 as Honorary Minister.
 - " October 12th-Prorogation of the Federal Parliament.
 - ,, November 1st—Strike in the building trade in Melbourne. About 1,000 men directly affected. The demand of the strikers was that 44 hours, instead of 48 hours, constitute a week's work at the current rate of wages. After being on strike for ten weeks, both sides agreed that the dispute should be submitted to Judge Cussen for arbitration, and he decided that the men should continue to work 48 hours per week, but receive an increase of wages.
 - "November 21st—Celebration of the first 50 years of Responsible Government in Victoria.
 - "November 30th—Conference of the Statists of the Australian States and New Zealand (with Mr. G. H. Knibbs, Commonwealth Statistician, president), convened for the purpose of securing uniformity in the compilation of statistical information, and of preventing overlapping between the Commonwealth and States.
 - Outtrim, affirming the liability of members of the Commonwealth Public Service to pay State income tax.
- " December 12th—Elections for the third Commonwealth Parliament held , December 12th—New constitution of the Transvaal Colony proclaimed.
- " December 28th-Prorogation of the State Parliament.