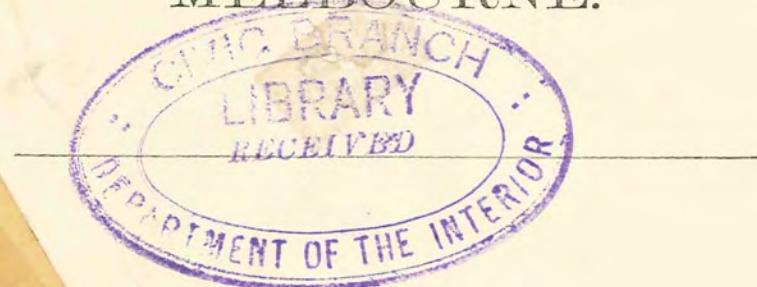




METEOROLOGY OF AUSTRALIA.

COMMONWEALTH BUREAU OF METEOROLOGY,  
MELBOURNE.



ON THE CLIMATE OF THE YASS-CANBERRA  
DISTRICT.

(ISSUED DECEMBER, 1910.)

*Published with the Authority of the Minister of Home Affairs under the direction of*

H. A. HUNT,

COMMONWEALTH METEOROLOGIST.

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## ON THE CLIMATE OF THE YASS-CANBERRA DISTRICT

(WITH CHART),

BY

H. A. HUNT,  
COMMONWEALTH METEOROLOGIST.

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The Rainfall and Temperature Map comprises the South-eastern area of New South Wales lying approximately to the South of latitude 34° 30' S and East of the 148th meridian, E.

It was found necessary to discuss the figures of the whole of this area in order to gauge the variability and distribution of rainfall and temperature over the proposed Federal Capital Territory, since, with the exception of the town of Queanbeyan, meteorological observations have not been taken on the proposed Capital Site itself over a sufficient number of years to enable a proper appreciation of climatic elements to be arrived at.

The isotherms and isohyets are drawn from all available records. Those forming a basis for the rainfall contours are generally sufficiently reliable and numerous to give a correct estimate of the annual distribution, excepting, perhaps, the upper catchment area of the Cotter River.

The Temperature data are, however, very few, and insufficient for an approximately accurate outline of this element for the year, particularly in a region where the physiography is so widely variable. I have therefore had the isotherms computed on the formula that the temperature varies 1 deg. Fah. for each 300 feet elevation, and 1 deg. Fah. for each degree of latitude.

The average rainfall for the proposed Federal Territory is 25·5 inches, or about that of Melbourne or London.

The highest recorded average in the Territory is 32·92 inches at Uriarra; and the lowest, 18·73 inches at Duntroon. Neither of these records can, however, be accepted as accurate, for in the surrounding districts for the majority of the years over which observations have extended, the seasonal rains have been low or normal; these remarks particularly apply to the average of 18·73 at Duntroon, and, further, the figures cover a short period of only thirteen years of dry or moderate seasons.

No official records have been taken on the Cotter catchment area, but it is confidently estimated that the average rainfall there cannot be less than from 40 to 60 inches per annum, because Kiandra, which is only a few miles distant, has an average of 64 inches per annum, and is exposed to the same rain-bearing winds, and has the additional disadvantage of being some 500 to 1,500 feet lower than many of the peaks which serve as condensing or precipitating agents for the Cotter River.

It is reassuring to note, if the records of Kiandra can be accepted as a guide, that the precipitation on these higher levels does not suffer the extreme annual variations to which the lower levels are susceptible, so that the flow of water in the Cotter River may reasonably and justifiably be regarded as both fairly uniform and constant.

At Queanbeyan, which is only 8 miles distant from the Capital site, rain records have been taken from September, 1870, or about 40 years, and, since the elevation above sea level and the surroundings of both places are somewhat similar, the figures from Queanbeyan should be nearer the truth than those obtained at Duntroon. A comparison of the rainfall at both these places for the same set of years confirms this view, for the average only shows a difference of .9 of an inch in favour of Queanbeyan.

Again, Queanbeyan's rainfall for 39 years is 22·63 inches, its average from 1896 to 1908 equals but 19·56, so that if the difference—3·07—is added to the mean derived at Duntroon for the latter period, viz., 18·73 + 3·07, the average on the city site itself would be 21·80 inches per annum, or slightly above that of Adelaide.

As much as 41·29 inches was registered in the year 1887 at Queanbeyan, and as little as 10·42 in 1902, a range of 30 inches, so that, as in many other parts of our interior, a storage or equalizing provision must be definitely contemplated over the catchment in the lower areas of the Territory.

As before mentioned, the sparse temperature data so far obtained over the area leaves this phase of weather inconclusive, but taking Queanbeyan as representative for the same reasons as those stated in regard to rainfall, we may assume the mean annual temperatures to be 55° Fah., the summer mean 68°, and the winter 42°.

Observations of wind, evaporation and other climatic elements are not available, and any attempt at an estimation of normals other than those of rain and temperature would be the vaguest speculation.

With regard to prevailing winds, in addition to cyclonic and anticyclonic circulations, which largely control the winds in the southern areas of Australia, the influence of valley and mountain effects on air currents is a strong factor that will have to be reckoned with in future studies of the climate of the district, but from the extremes of elevation existing in the Territory, it is obvious that suitable climatic conditions obtain for nearly all economic and hygienic requirements.

The lower levels will be suitable for industries requiring a dry air, while those requiring moister surroundings will find abundant areas in the higher regions,

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Sites for sanatoria will be found, approaching, if not equalling, the best in Australia, in the vicinity of the mountains—Bimberi, Tindery, Tidbinbilla, and Coree.

Tables showing particulars of rainfall and temperatures are appended, and a revised comparative statement of the various climatic elements of different cities of the world is also included.

It will be noted that the temperature variations of Canberra compare most favorably with cities of the world situated in similar latitudes, and being some distance from the sea can never be subject to the distressing, enervating, and, at times, deadly effects of a high wet bulb thermometer reading which occasionally afflict many of the world's big cities founded near the oceans.

With regard to rainfall also, it may be mentioned that the annual average of the city site equals or exceeds that recorded at the following places:—Berlin, Budapest, Christiana, Copenhagen, Madrid, Marseilles, Moscow, Naples, Paris, San Francisco, Stockholm, St. Petersburg, and Vladivostock.

TABLE SHEWING COMPARISON OF RAINFALLS AND TEMPERATURES OF CITIES OF THE WORLD WITH THOSE OF AUSTRALIA.

Place.	Height above M.S.L.	Annual Rainfall.			Temperature.					
		Average.	Highest.	Lowest.	Mean of 3 Hottest Months.	Mean of 3 Coldest Months.	Highest on Record.	Lowest on Record.	Average Hottest Month.	Average Coldest Month.
Amsterdam ..	..	26·40	..	..	62·9	37·1	93·9	5·8	63·6	35·0
Auckland ..	..	43·09	54·18	31·89	65·2	52·2	..	..	..	..
Athens ..	..	146	89·10	102·80	73·50	56·8	34·5	88·5	4·8	57·9
Berlin ..	..	115	22·88	30·04	14·25	64·7	32·2	98·6	-13·0	66·0
Berne ..	..	1,880	46·00	..	..	..	..	97·2	-22·0	63·0
Bombay ..	..	37	73·99	..	..	83·0	75·2	98·5	55·9	84·6
Breslau ..	..	482	22·00	28·01	16·45	63·4	29·0	100·0	-23·4	..
Brussels ..	..	..	28·66	41·27	17·77	..	..	..	..	..
Budapest ..	..	512	24·80	35·27	12·91	..	..	..	..	..
Buenos Ayres ..	..	72	36·82	80·73	21·53	73·2	51·5	103·1	25·9	74·2
Calcutta ..	..	18	63·30	..	..	85·1	66·9	108·2	44·2	85·7
Cape Town ..	..	40	25·50	36·72	17·71	68·1	54·7	102·0	34·0	68·8
Caracas ..	..	3,420	30·03	47·36	23·70	68·3	65·3	87·8	48·2	63·7
Chicago ..	..	836	33·28	45·80	24·40	70·0	26·1	103·0	23·0	72·4
Christchurch ..	..	..	25·24	35·30	13·54	59·7	43·1	..	..	..
Christiania ..	..	82	22·51	..	61·0	24·5	93·0	-21·1	62·6	23·9
Colombo ..	..	42	88·27	..	81·4	79·2	100·0	64·0	82·1	79·0
Constantinople ..	..	..	28·75	42·74	14·78	74·0	43·5	103·6	13·0	75·7
Copenhagen ..	..	43	22·06	28·78	14·02	60·5	31·9	90·5	-9·7	61·9
Dresden ..	..	115	26·80	34·49	17·72	56·3	8·3	94·6	-8·7	..
Dublin ..	..	47	27·86	35·57	20·47	58·9	42·0	87·2	13·3	63·5
Durban ..	..	262	..	..	..	..	..	..	..	..
Edinburgh ..	..	230	26·50	38·94	17·60	59·0	38·4	88·0	0·0	58·0
Geneva ..	1,328	33·48	46·89	21·14	..	..	..	..	..	..
Genoa ..	..	157	51·29	108·22	28·21	..	..	..	..	..
Glasgow ..	..	184	38·49	56·18	29·05	52·7	41·0	84·9	6·6	..
Greenwich ..	..	159	24·12	35·54	16·38	61·3	39·3	97·1	4·0	62·7
Hong Kong ..	..	110	84·43	119·71	45·83	81·3	60·3	88·8	50·5	81·8
Johannesburg ..	..	5,925	30·64	43·39	21·66	65·0	51·5	94·0	23·3	66·8
Leipzig ..	..	117	24·69	31·37	17·10	55·4	40·3	96·4	-11·2	..
Lisbon ..	..	312	29·18	52·79	17·32	69·6	51·3	94·1	32·5	..
London ..	..	18	23·13	..	..	..	89·4	10·8	..	..
Madras ..	..	22	49·02	88·66	18·45	87·6	75·9	112·4	57·3	88·7
Madrid ..	..	2,149	16·23	27·48	9·13	73·0	41·2	107·1	10·5	75·7
Marseilles ..	..	246	21·15	43·04	10·56	70·4	45·4	100·4	11·5	72·2
Moscow ..	..	587	21·50	29·56	13·74	63·5	..	..	68·0	12·0
Naples ..	..	489	33·60	50·43	16·02	76·1	49·3	104·0	23·0	77·2
New York ..	..	146	44·63	37·60	24·30	71·4	31·8	97·0	-28·0	73·5
Ottawa ..	..	294	33·19	38·05	25·25	66·7	15·0	98·3	-31·6	68·7
Paris ..	..	165	21·92	29·56	16·44	63·5	37·1	101·1	-14·1	65·8
Pekin ..	..	..	24·40	..	..	..	..	..	79·2	23·6
Quebec ..	..	296	..	..	63·0	14·0	..	..	66·0	9·4
Rome ..	..	164	33·58	57·95	20·71	74·0	46·6	100·4	19·6	76·5
San Francisco ..	..	189	22·77	38·82	9·31	58·6	50·6	100·0	29·0	61·0
Shanghai ..	..	..	..	..	77·4	39·4	79·7	37·4	82·7	37·7
Singapore ..	..	12	92·70	123·24	65·56	..	93·0	..	..	..
Stockholm ..	..	144	17·92	25·46	11·78	59·6	37·1	91·8	-22·0	63·0
St. Petersburg ..	..	33	19·87	29·33	12·13	61·0	19·0	87·4	-30·3	64·0
Tokio ..	..	69	58·00	..	..	74·1	38·6	98·0	15·0	77·4
Trieste ..	..	85	42·94	63·14	26·57	..	..	..	..	..
Vienna ..	..	663	24·50	33·90	16·50	65·7	30·4	97·7	-8·0	67·1
Vladivostock ..	..	100	12·60	..	..	..	..	..	69·5	5·0
Washington ..	..	132	43·50	61·30	30·60	74·7	34·5	104·0	-15·0	77·0
Wellington (N.Z.) ..	..	..	49·88	60·40	34·93	60·7	48·3	..	..	..

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## ERRATA AND ADDENDA IN CONNEXION WITH TABLE SHOWING COMPARISON OF RAINFALLS AND TEMPERATURES OF CITIES OF THE WORLD WITH THOSE OF AUSTRALIA.

Cities.	Height above Sea Level.	Rainfall.			Temperature.					
		Average.	Highest.	Lowest.	Mean Summer.	Mean Winter.	Highest on Record.	Lowest on Record.	Average Hottest Month.	Average Coldest Month.
	feet									
Amsterdam ..	6	27.29	40.59	17.60	63.2	36.8	90.0	4.1	64.4	35.4
Athens ..	351	15.48	33.32	4.55	69.7	59.5	106.5	19.6	90.4	42.0
Bombay ..	..	71.15	114.89	33.41	..	..	100.0	..	84.8	74.2
Brussels ..	328	28.35	41.18	17.73	62.6	36.0	95.5	-4.4	63.7	34.5
Budapest ..	500	25.20	35.28	16.79	68.6	30.2	98.6	-5.1	70.4	28.2
Calcutta ..	21	61.98	89.32	39.38	..	..	..	..	85.4	65.5
Chicago ..	823	33.54	..	24.52	..	26.3	..	-23.0	72.3	24.0
Christania ..	82	22.52	31.73	16.26	54.5	29.5	95.0	..	..	..
Colombo ..	40	83.83	139.70	51.60	81.5	79.9	95.8	65.0	82.6	79.1
Edinburgh ..	441	25.21	32.05	16.44	55.9	38.8	85.3	16.6	57.2	38.3
Hong Kong ..	110	84.10	119.72	..	..	..	97.0	32.0	..	58.1
Johannesburg ..	5,750	31.63	50.00	21.66	65.4	54.4	..	..	68.2	48.9
Madras ..	22	49.06	88.41	..	..	..	113.0	57.5	87.6	75.3
Marseilles ..	..	21.88	..	12.28	70.3	45.3	..	..	83.1	56.3
Moscow ..	526	18.94	29.28	12.07	63.4	14.7	99.5	-44.5	66.1	11.9
New York ..	314	42.47	59.68	28.78	72.1	31.7	100.0	-6.0	74.5	30.3
San Francisco ..	155	22.83	..	..	59.0	51.0	101.0	..	..	..
Singapore ..	8	91.99	158.68	32.71	..	..	94.2	63.4	..	..
Stockholm ..	146	18.31	..	..	59.7	27.0	..	..	62.1	25.7
St. Petersburg ..	16	21.30	29.52	13.75	61.1	17.4	97.0	-38.2	63.7	15.2
Tokio ..	70	59.17	..	..	73.9	38.9	97.9	15.4	77.7	37.1
Vladivostock ..	55	19.54	33.60	9.39	63.9	11.0	95.7	-21.8	69.4	6.1
Washington ..	75	43.80	61.33	18.79	..	..	..	..	76.8	32.9

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The above information has been obtained from the following sources:—

- From Climatological Tables, as supplied by Observatories *re* circular—Madras, Paris, Vienna, Breslau, Greenwich, Caracas, Glasgow, Bergen, Leipzig, Dresden, Stockholm.
- Year-book, Buenos Ayres.
- United States Department of Agriculture Publication (Nos. 829 and 766). Bulletins from Weather Bureau—Chicago, New York, San Francisco (Temperature), Washington.
- Königlich Preußischen Meteorological Institute (Hellmann).
- Rainfalls for—Lisbon, Madrid, Paris, Edinburgh, Berlin, Geneva, Genoa, Rome, Naples, Trieste, Vienna, Copenhagen, St. Petersburg, Moscow.
- Marseilles (Bulletin Annual) 1907 année.
- San Francisco Rainfall, U.S. Weather Bureau Monthly for April, 1908 (page 99).
- Reduction of Observations, Shang-Hai (No. 216).
- Quebec (Height), Canada Report.
- Dublin and London (Kew) 2nd Order Stations, 1906 (and 1905 as over).
- Madras (part), Bombay, Calcutta, and Colombo, from Indian Meteorological Memoirs, Average 30 years. Calcutta Rainfall (Gilbert's Change of Climate in India).
- Die Jährliche periode der Niederschläge in Ungarn—Brussels, Genoa, Mean Rainfall for 50 years, Highest and Lowest Rainfall.
- Hong Kong Observations, 1909, Average Rainfall. Temperature from 1908 Observations.
- Kew Meteorological Observations at Stations, 2nd Order, 1905, Average Rainfall, Highest and Lowest. Berlin Temperatures. "Nature," 22nd September, 1910.

TABLE SHEWING COMPARISON OF RAINFALLS AND TEMPERATURES OF CITIES OF THE WORLD WITH THOSE OF AUSTRALIA—*continued*.

Place.	Height above M.S.L.	Annual Rainfall.			Temperature.					
		Average.	Highest.	Lowest.	Mean of 3 Hottest Months.	Mean of 3 Coldest Months.	Highest on Record.	Lowest on Record.	Average Hottest Month.	Average Coldest Month.
FEDERAL CAPITAL SITE.										
Canberra (District) (Queanbeyan)	..   {2,000 to 2,900}   ..	22.63	41.29	10.42	67.5	41.8	104.0	11.1	68.4	39.7
THE STATE CAPITALS.										
Perth ..	..	197	33.44	46.73	20.48	72.7	55.7	107.9	35.3	73.8
Adelaide ..	..	140	20.54	30.87	13.43	73.1	52.9	116.3	32.0	74.2
Brisbane ..	..	137	48.06	88.26	16.17	76.6	59.4	108.9	36.1	77.2
Sydney ..	..	146	47.97	82.81	23.01	70.9	53.8	108.5	35.9	71.6
Melbourne ..	..	91	25.42	36.42	15.61	66.4	49.9	111.2	27.0	67.4
Hobart ..	..	160	23.36	40.67	13.43	61.3	46.9	105.2	27.7	62.0

RAINFALLS OF STATIONS NEAR FEDERAL CAPITAL SITE, NEW SOUTH WALES.

Station.	No. of Years.	Average.	Greatest.	Year.	Lowest.	Year.
Adaminaby .. .. .. ..	21	Inches. 28.27	Inches. 42.95	1887	Inches. 15.46	1902
Adelong .. .. .. ..	24	30.03	41.73	1906	16.36	1902
Araluen .. .. .. ..	18	30.83	50.98	1898	17.48	1907
Argalong .. .. .. ..	9	39.54	60.45	1906	24.16	1902
Batlow .. .. .. ..	23	49.82	72.61	1906	26.72	1902
Bega .. .. .. ..	27	31.35	59.78	1891	15.79	1885
Bemboka .. .. .. ..	19	31.35	59.13	1893	16.12	1895
Berebangalo .. .. .. ..	18	21.72	34.08	1894	12.79	1895
Bevendale .. .. .. ..	16	20.78	40.49	1894	13.24	1902
Bobundarra .. .. .. ..	27	19.52	31.15	1887	10.49	1895
Bodalla .. .. .. ..	34	36.14	62.79	1879	19.50	1885
Boloco .. .. .. ..	22	23.92	38.04	1897	13.43	1895
Bombala .. .. .. ..	25	23.00	38.18	1891	11.88	1885
Bowning .. .. .. ..	18	27.63	46.90	1894	14.71	1902
Braidwood .. .. .. ..	21	24.23	37.98	1892	15.47	1895

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RAINFALLS OF STATIONS NEAR FEDERAL CAPITAL SITE, NEW SOUTH WALES—continued.

Station.	No. of Years.	Average.	Greatest.	Year.	Lowest.	Year.
Breadalbane ..	.. 7	Inches. 22·56	Inches. 32·56	1900	Inches. 19·37	1907
Bukalong ..	.. 53	26·11	50·75	1870	12·25	1865
Bungendore ..	.. 18	22·41	36·39	1894	11·95	1902
Bungonia ..	.. 27	25·55	42·80	1891	15·73	1895
Burrowa ..	.. 26	21·74	38·20	1887	11·60	1895
Candelo ..	.. 22	28·62	56·43	1891	14·01	1904
Carlaminda ..	.. 19	19·05	33·79	1891	10·59	1895
Carwoola ..	.. 19	24·97	40·14	1891	14·76	1895
Cathcart ..	.. 10	26·30	37·80	1900	19·47	1903
Cavan ..	.. 27	25·85	50·69	1887	13·80	1902
Chatsbury ..	.. 19	31·34	52·84	1900	20·43	1902
Collector ..	.. 17	26·38	41·37	1894	16·79	1902
Coolamatong ..	.. 24	22·23	35·34	1887	14·58	1904
Cooma ..	.. 44	18·85	33·35	1891	11·19	1895
Cootamundra ..	.. 21	23·02	32·28	1891	15·38	1894
Crookwell ..	.. 26	31·81	46·81	1887	20·84	1897
Cunningham Plains ..	.. 24	22·86	42·18	1887	12·26	1902
Currandooley ..	.. 26	22·24	37·90	1887	12·38	1902
Dalgety ..	.. 13	17·25	23·20	1900	13·12	1909
Dalton ..	.. 11	22·09	32·11	1906	14·88	1902
Douglas ..	.. 25	25·59	42·37	1887	13·81	1902
Duntroon ..	.. 13	18·73	28·94	1900	11·09	1902
Eden ..	.. 38	34·34	67·57	1870	16·63	1888
Fairlight (late Woodstock) ..	.. 23	28·27	49·76	1887	15·56	1902
Fern Hill ..	.. 17	33·92	50·88	1894	19·54	1902
Gidleigh ..	.. 24	24·07	40·33	1891	12·54	1902
Gobarralong ..	.. 22	22·94	32·19	1894	14·29	1895
Goulburn ..	.. 46	25·07	49·71	1870	11·71	1865
Gudgenby ..	.. 19	29·49	45·11	1891	15·71	1895
Gundagai ..	.. 17	22·89	35·37	1894	16·00	1904
Gundaroo ..	.. 32	24·06	39·91	1891	11·38	1907
Gunning ..	.. 24	25·28	40·59	1894	14·19	1902
Harden ..	.. 23	22·51	39·96	1887	11·50	1902
Hardwick ..	.. 18	22·03	35·92	1894	13·64	1902
Jervis Bay ..	.. 43	56·53	107·92	1895	17·53	1888
Jimenbuen ..	.. 21	22·53	36·24	1891	15·13	1904-1905
Jindabyne West ..	.. 18	25·82	37·06	1891	16·86	1885
Jugiong ..	.. 11	19·63	28·55	1906	13·10	1902
Kiandra ..	.. 35	64·04	90·06	1889	42·18	1908
Kimo ..	.. 28	23·07	38·29	1887	13·99	1902
Kingswood ..	.. 19	28·28	48·23	1891	16·36	1904
Kippilaw ..	.. 24	22·83	38·40	1891	14·19	1895
Lake Bathurst ..	.. 19	24·77	43·14	1891	12·33	1895
Lake George ..	.. 25	27·00	42·11	1887	15·90	1908
Lambrigg ..	.. 15	21·07	31·92	1900	13·41	1895
Landgrove ..	.. 19	23·56	35·61	1894	14·25	1902
Lands End ..	.. 23	25·52	45·94	1887	12·45	1902
Laurel Hill ..	.. 20	53·65	83·85	1906	25·81	1902
Majura ..	.. 24	24·51	41·93	1887	11·64	1902
Michelago ..	.. 24	20·78	38·10	1887	8·69	1895
Milton ..	.. 25	44·26	74·90	1890	28·00	1888
Moruya ..	.. 33	35·27	63·79	1879	19·67	1885
Mount Campbell ..	.. 18	24·19	36·60	1894	14·39	1902
Murrumbumba ..	.. 22	21·69	36·77	1887	13·22	1895
Murrumburrah ..	.. 25	23·71	37·88	1887	12·11	1902
Muttama ..	.. 6	21·14	27·97	1906	12·48	1902
Mylora ..	.. 15	26·36	42·05	1894	15·95	1902
Nimitybelle ..	.. 15	24·73	32·14	1899	14·34	1895
Nowra ..	.. 25	36·75	58·25	1890	19·51	1888
Panpong ..	.. 8	24·03	30·37	1899	20·96	1904
Queanbeyan ..	.. 39	22·63	41·29	1887	10·42	1902
Red Hill Station ..	.. 23	33·93	49·66	1887	18·24	1902
Rosedale ..	.. 15	23·29	29·45	1887	14·80	1895
Rosemount ..	.. 20	31·18	45·74	1894	18·49	1902
Samares ..	.. 20	25·51	38·52	1891	11·69	1895
Snowball ..	.. 13	33·32	46·50	1900	24·73	1901
Springvale ..	.. 19	43·25	62·94	1894	21·84	1902
Sutton ..	.. 22	24·23	43·62	1887	9·21	1902
Tarago ..	.. 18	23·36	44·20	1887	15·19	1902
Tooma ..	.. 25	30·36	43·33	1887	15·10	1902
Tumbarumba ..	.. 25	29·66	55·05	1906	20·97	1902
Tumut ..	.. 23	31·60	47·86	1887	16·82	1902
Uriarra ..	.. 15	32·92	54·11	1887	20·00	1899
Woodhouselee ..	.. 20	26·09	40·15	1879	16·79	1888
Wyndham ..	.. 19	34·20	63·93	1891	20·20	1907
Yallowin ..	.. 24	39·55	61·48	1906	18·52	1902
Yass ..	.. 30	23·62	43·32	1887	13·39	1902

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## COMMONWEALTH METEOROLOGY.

### ELEMENTS—TEMPERATURE, RAINFALL, EVAPORATION AT STATIONS NEAR FEDERAL CAPITAL SITE.

Year.	Janu- ary.	Febr- uary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Nov- ember.	De- cember.	Year.
<i>Bombala.</i>													
Mean Maximum, 25 years ..	80·7	78·6	74·0	67·3	59·1	53·2	51·8	55·8	61·8	68·8	74·0	78·2	66·9
Mean Minimum ..	49·7	48·9	46·8	41·1	35·0	33·2	30·5	33·0	37·3	41·2	45·3	48·5	40·9
Mean Temperature ..	65·2	63·8	60·4	54·2	47·0	43·2	41·2	44·4	49·5	55·0	59·7	63·3	53·9
Absolute Maximum ..	104·1	99·7	98·7	91·1	76·1	66·6	70·7	76·1	82·5	96·8	101·6	101·7	104·1
Absolute Minimum ..	31·2	25·5	30·0	28·0	17·6	16·1	15·5	19·6	22·2	25·0	30·0	30·2	15·5
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 25 years ..	242	171	201	152	142	276	181	164	162	196	177	236	23·00
<i>Cavan.</i>													
Mean Maximum, 27 years ..	85·3	84·2	78·6	69·9	60·9	54·8	54·3	58·3	64·7	70·9	77·6	83·0	70·2
Mean Minimum ..	60·9	60·8	55·4	47·7	39·6	36·9	33·5	35·8	39·7	45·1	52·7	57·8	47·2
Mean Temperature ..	73·1	72·5	67·0	58·8	50·3	45·8	43·9	47·1	52·2	58·0	65·2	70·4	58·7
Absolute Maximum ..	105·1	107·9	100·1	89·2	81·1	76·1	70·1	82·1	84·1	98·1	98·1	107·1	107·9
Absolute Minimum ..	39·7	34·0	27·0	23·0	18·7	18·0	18·0	20·0	24·0	27·7	31·7	34·7	18·0
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 29 years ..	277	164	207	193	193	302	207	216	211	247	169	199	25·85
<i>Cooma.</i>													
Mean Maximum, 44 years ..	83·8	81·2	77·6	68·4	60·8	53·4	42·9	57·0	63·1	70·2	76·0	81·1	68·0
Mean Minimum ..	51·5	51·3	47·6	40·8	33·4	30·8	27·4	29·7	34·4	39·1	44·9	48·5	39·9
Mean Temperature ..	67·7	66·2	62·6	54·6	47·1	42·1	35·2	43·3	48·8	54·6	60·5	64·8	54·0
Absolute Maximum ..	112·0	107·0	104·6	92·7	77·7	69·2	72·9	75·7	86·9	95·7	102·1	110·0	112·0
Absolute Minimum ..	29·8	33·4	28·2	22·8	16·6	13·4	11·0	12·7	14·3	24·0	25·8	28·8	11·0
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 44 years ..	202	228	174	131	126	145	91	92	161	179	193	161	18·83
<i>Cootamundra.</i>													
Mean Maximum, 16 years ..	88·5	86·5	79·3	71·1	61·0	54·5	52·0	56·1	62·9	69·6	78·6	86·7	70·6
Mean Minimum ..	64·0	61·5	56·0	47·3	39·6	38·8	35·2	36·4	39·7	45·8	52·8	59·2	48·0
Mean Temperature ..	76·3	74·0	67·6	59·2	50·3	46·7	43·6	46·2	51·3	57·7	65·7	73·0	59·3
Absolute Maximum ..	111·0	107·5	98·5	87·4	76·0	72·0	70·5	71·0	85·4	96·5	99·0	112·0	112·0
Absolute Minimum ..	42·9	43·9	37·1	30·9	25·9	19·9	20·9	20·9	21·9	28·9	28·9	39·9	19·9
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 25 years ..	236	135	175	193	160	268	201	202	184	218	146	179	23·02
<i>Douglas, Lake George.</i>													
Mean Maximum, 19 years ..	83·3	81·9	77·2	68·9	61·2	54·9	54·4	57·3	64·0	70·1	76·6	82·0	69·3
Mean Minimum ..	59·0	57·6	53·6	46·7	39·1	36·7	34·4	36·6	40·9	46·3	52·8	58·0	46·8
Mean Temperature ..	71·2	69·7	65·4	57·8	50·2	45·8	44·4	46·9	52·5	58·2	64·7	70·0	58·1
Absolute Maximum ..	107·0	103·0	101·0	86·0	81·0	79·0	76·0	79·0	82·0	90·0	98·0	108·0	108·0
Absolute Minimum ..	41·8	39·8	36·8	32·8	23·8	18·8	21·8	23·8	26·8	29·8	34·8	41·8	18·8
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 24 years ..	289	174	188	184	179	278	189	226	207	235	192	218	25·59
Mean Evaporation, 8 years ..	3·305	2·603	2·571	1·776	1·184	1·038	0·899	1·011	1·328	1·582	2·261	2·486	22·044
<i>Goulburn.</i>													
Mean Maximum, 46 years ..	83·6	80·2	76·8	69·0	59·8	53·4	52·2	56·1	62·1	69·7	75·6	81·0	68·3
Mean Minimum ..	55·0	54·4	51·2	44·1	37·7	35·4	32·9	34·5	38·6	43·4	47·8	51·0	43·9
Mean Temperature ..	69·3	67·3	64·0	56·6	48·7	44·4	42·6	45·3	50·3	56·6	61·7	66·0	56·1
Absolute Maximum ..	109·0	111·0	101·0	93·0	78·0	72·5	75·1	77·0	84·0	97·5	100·5	107·5	111·0
Absolute Minimum ..	33·0	35·0	31·6	24·4	19·0	18·4	18·6	13·0	21·6	26·0	28·0	31·0	13·0
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 46 years ..	275	255	205	170	189	203	156	188	205	231	213	217	25·07
<i>Murrumburrah.</i>													
Mean Maximum, 24 years ..	90·2	88·4	83·3	74·8	66·4	59·1	58·6	61·1	66·5	74·3	81·9	87·6	74·4
Mean Minimum ..	60·7	59·7	54·8	47·1	38·8	37·1	35·3	36·0	39·3	45·0	51·5	57·5	46·9
Mean Temperature ..	75·5	74·0	69·1	60·9	52·6	48·1	47·0	48·5	52·9	59·7	66·7	72·5	60·6
Absolute Maximum ..	114·9	108·1	100·1	96·4	92·4	87·1	82·1	82·1	85·1	96·0	101·9	112·9	114·9
Absolute Minimum ..	38·4	38·0	33·0	30·0	24·0	19·0	21·0	20·0	21·0	28·0	28·0	34·0	19·0
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 25 years ..	234	137	207	221	164	269	209	220	204	196	151	179	23·91
<i>Queanbeyan.</i>													
Mean Maximum, 13 years ..	82·0	81·4	75·1	67·0	58·1	51·6	49·6	53·7	60·5	68·8	75·5	80·9	67·0
Mean Minimum ..	54·8	54·3	50·4	43·8	36·6	33·6	29·9	32·6	35·7	40·8	47·0	51·3	42·6
Mean Temperature ..	68·4	67·9	62·7	55·4	47·4	42·6	39·7	43·2	48·1	54·8	61·2	66·1	54·8
Absolute Maximum ..	104·0	102·0	90·0	85·0	69·7	64·0	61·5	67·0	79·9	87·0	92·0	101·0	104·0
Absolute Minimum ..	33·0	36·0	29·8	26·0	18·0	15·0	11·1	13·0	18·8	19·0	24·0	27·0	11·1
pts. ....	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 39 years ..	236	183	190	169	170	196	131	158	176	233	216	205	22·63

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COMMONWEALTH METEOROLOGY—*continued.*

Year.	Janu-	Febr-	March.	April.	May.	June.	July.	August.	Sept-	Octo-	Nov-	De-	Year.
	ary.	ruary.							ember.	ber.	ember.	cemember.	
<i>Queanbeyan (Stevenson's Screen).</i>													
1909.													
Mean Maximum	..	..	..	76·1	58·3	52·5	..	46·0	53·7	60·6	71·3	77·8	79·9
Mean Minimum	..	..	..	50·1	40·4	36·5	37·8	30·7	35·8	37·2	42·2	45·5	52·6
Mean Temperature	..	..	..	63·1	49·4	44·5	..	38·4	44·7	48·9	56·8	61·7	66·3
<i>Yass.</i>													
Mean Maximum, 26 years	85·4	83·4	77·8	69·0	59·9	52·5	51·3	55·3	61·5	68·6	77·8	83·4	68·8
Mean Minimum	..	60·1	59·0	55·3	47·2	40·0	38·7	36·3	37·7	41·4	46·4	52·6	57·8
Mean Temperature	..	72·8	71·2	66·6	58·1	49·9	45·6	43·8	46·5	51·5	57·5	65·2	70·6
Absolute Maximum	..	107·5	105·0	98·0	90·5	74·5	66·5	63·0	75·0	82·5	93·0	103·0	108·5
Absolute Minimum	..	41·5	42·5	36·5	28·0	21·5	19·0	22·0	23·0	22·5	28·5	33·0	36·0
pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	pts.	inches
Mean Rainfall, 30 years	..	241	133	182	179	172	270	191	211	200	226	174	183
<i>Laverstock, near Yass (Stevenson's Screen).</i>													
Mean Maximum, 6 years	..	85·8	83·8	77·8	71·7	62·7	54·9	52·4	55·0	58·8	66·9	75·5	82·4
Mean Minimum	..	60·1	57·7	52·2	47·6	41·2	34·0	35·4	35·3	38·7	43·9	49·4	54·1
Mean Temperature	..	73·0	70·7	65·0	59·7	51·9	44·5	43·9	45·1	48·8	55·4	62·4	68·3
Absolute Maximum	..	105·5	102·0	93·0	89·0	81·0	75·0	73·0	73·0	73·0	88·0	95·0	106·0
Absolute Minimum	..	41·0	42·0	39·0	34·0	26·0	22·0	24·0	26·0	26·0	31·0	33·0	40·0
<i>Yass (Stevenson's Screen)—Results of Observations for the Year 1909.</i>													
Mean Maximum	..	80·6	78·4	75·8	66·0	57·8	52·8	49·2	54·3	61·9	70·0	78·8	78·9
Mean Minimum	..	55·5	53·6	52·3	41·2	37·8	39·5	32·0	35·6	36·6	41·3	44·4	49·9
Mean Temperature	..	68·1	66·0	64·0	53·6	47·8	46·2	40·6	44·9	48·8	55·7	61·6	64·4
Maximum	..	105·0	96·0	84·5	82·5	67·5	59·0	58·0	65·0	70·0	83·0	93·0	100·0
Minimum	..	42·0	43·0	43·5	26·0	29·0	28·0	25·5	27·0	27·0	30·0	32·0	38·0
<i>Federal City (Stevenson's Screen).</i>													
1909													
Mean Maximum	..	..	..	..	..	..	..	..	..	67·7	76·1	76·7	..
Mean Minimum	..	..	..	..	..	..	..	..	..	44·1	46·9	50·2	..
Mean Temperature	..	..	..	..	..	..	..	..	..	55·9	61·5	63·5	..
1910.													
Mean Maximum	..	77·5	83·6	72·5	68·9	60·1	..	..	..	..	..	..	..
Mean Minimum	..	55·8	53·2	53·7	43·8	37·4	..	..	..	..	..	..	..
Mean Temperature	..	66·6	68·4	63·1	56·4	48·7	..	..	..	..	..	..	..