

1907.  
NEW ZEALAND.

RAINFALL IN OTAGO AND CANTERBURY

FROM 1852 TO 1906.

Return to an Order of the House of Representatives dated the 7th August, 1907.

Ordered, "That there be laid before this House a return showing the rainfall in the Provinces of Canterbury and Otago for each year from the earliest period of which records are available to the present date; the return to show the rainfall from all stations where recorded."—(Mr. BUDDO.)

RETURN showing the ANNUAL RAINFALL at the Places mentioned below in the Provincial Districts of Canterbury and Otago, for each Year from 1852 to 1906, inclusive, so far as Records for such Period are available.

Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.
<i>Canterbury.</i>											
Waikari	1906	27-600	130	Lincoln	1896	30-226	127	Timaru	1902	30-55	122
Bealey	1867	81-610	155	"	1897	14-480	103	"	1903	22-13	112
"	1868	126-018	214	"	1898	18-558	101	"	1904	31-31	78
"	1869	85-875	186	"	1901	22-010	134	"	1905	25-95	135
"	1870	106-293	181	"	1902	24-490	154	"	1906	17-29	104
"	1871	106-801	167	"	1903	20-890	127	Timaru Reser-	1902	31-89	130
"	1872	97-130	179	"	1904	31-150	144	voir			
"	1873	82-071	165	"	1905	28-790	152	Ditto	1903	22-15	101
"	1874	98-095	170	"	1906	31-580	118	"	1904	28-44	108
"	1875	105-595	160	Kyle	1902	30-11	..	"	1905	28-66	121
"	1876	91-271	173	"	1903	22-41	98	"	1906	17-70	88
"	1877	106-414	163	"	1904	30-73	113	Orari	1898	23-74	96
"	1878	155-891	207	"	1905	34-67	127	"	1899	32-21	128
"	1879	70-320	170	"	1906	27-26	118	"	1900	29-49	157
"	*1890	50-840	151	Windermere	1899	27-88	121	"	1901	21-04	121
"	1891	42-100	135	"	1900	30-42	117	"	1902	36-27	155
"	1892	49-510	145	"	1901	23-31	142	"	1903	22-54	138
"	1893	64-620	167	"	1902	34-42	146	"	1904	33-76	134
"	1894	67-330	130	Peel Forest	1893	56-04	160	"	1905	35-08	166
"	1895	23-810	116	"	1894	42-93	152	"	1906	23-27	128
"	†1896	32-730	73	"	1895	44-07	109	Rangiora	1892	29-45	166
"	1897	61-050	88	"	1896	46-20	135	Avondale	1899	28-15	108
"	1898	71-900	86	"	1897	31-45	110	"	1900	35-08	120
"	1899	50-460	93	"	1898	45-15	123	"	1901	30-26	108
"	1900	50-860	87	"	1899	44-64	121	"	1902	23-87	100
"	1901	57-530	119	"	1900	48-18	158	"	1903	31-86	96
"	1902	51-590	118	"	1901	44-06	125	"	1904	33-72	106
"	1903	66-860	143	"	1902	57-50	131	Linwood	1895	28-13	134
"	1904	74-110	169	"	1903	43-84	127	"	1896	29-55	128
"	†1905	63-280	157	"	1904	55-11	142	"	1897	14-77	100
"	1906	67-380	124	"	1905	51-93	144	"	1898	18-64	108
Lincoln	1881	28-071	104	"	1906	36-04	137	"	1899	24-86	133
"	1882	25-391	136	Woodbury,	1899	48-81	97	"	1900	23-72	132
"	1883	30-336	139	Geraldine				"	1901	23-45	131
"	1884	28-451	126	Ditto	1900	49-12	73	"	1902	27-01	130
"	1885	22-080	117	"	1901	40-68	62	"	1903	19-96	109
"	1886	35-287	138	"	1902	57-17	110	"	1904	32-28	122
"	1887	30-890	148	"	1903	38-10	145	"	1905	29-62	126
"	1888	29-155	128	"	1904	56-10	134	Domain (Christ	1895	30-52	131
"	1889	20-384	108	"	1905	54-88	128	church)			
"	1890	14-836	104	"	1906	38-74	96	Ditto	1896	29-52	107
"	1891	20-575	98	Timaru	1897	12-57	66	"	1897	15-41	87
"	1892	27-883	124	"	1898	22-29	89	"	1898	21-11	90
"	1893	22-112	115	"	1899	29-95	113	"	1899	28-34	134
"	1894	29-844	117	"	1900	23-55	131	"	1900	24-95	136
"	1895	30-982	128	"	1901	19-07	116	"	1901	21-60	122

\* For this and the following years the records at Bealey were taken at another site, across the river.

† Eleven months.

RETURN showing the ANNUAL RAINFALL—continued.

Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.
<i>Canterbury—continued.</i>											
Domain, Christchurch	1902	27.86	128	Pleasant Point	1905	24.97	120	Hororata	1893	26.29	108
Ditto	1903	18.31	88	"	1906	17.73	100	"	1894	27.92	123
"	1904	33.73	113	Waimate	1898	20.55	126	"	1895	34.89	133
Otahuna, Tai-tapu	1904	41.36	126	"	1899	31.94	127	"	1896	30.23	134
Ditto	1905	40.72	144	"	1900	24.14	107	"	1897	19.28	106
"	1906	33.80	115	"	1901	21.22	114	"	1898	23.89	103
Akaroa	1895	68.49	149	"	1902	33.05	128	Hororata	1899	27.48	127
"	1896	54.11	113	"	1903	24.18	113	"	1900	26.91	141
"	1897	23.90	112	"	1904	25.73	112	"	1901	23.48	117
"	1898	44.61	127	"	1905	41.56	153	"	1902	31.52	136
"	1899	45.70	135	Pleasant Valley	1906	17.71	108	"	1903	20.90	95
"	1900	44.99	124	"	1893	38.91	164	"	1904	35.87	141
"	1901	41.76	126	"	1894	30.11	132	"	1905	38.00	142
"	1902	38.44	118	"	1895	34.86	135	"	1906	25.78	114
"	1904	51.38	96	"	1896	33.03	128	Drayton, Methven	1893	40.06	130
"	1906	54.49	106	"	1897	19.68	100	Ditto	1894	40.02	113
Southbridge	1897	12.80	90	"	1898	27.25	132	"	1895	45.93	124
"	1898	18.85	97	"	1899	32.16	122	"	1896	37.44	125
"	1899	28.43	127	"	1900	34.63	119	"	1897	28.91	122
"	1900	22.82	110	"	1901	26.76	124	"	1897	28.91	122
"	1901	18.34	103	"	1902	42.37	132	Rakaia	1903	20.56	93
"	1902	26.96	118	"	1903	31.27	112	"	1904	35.10	129
"	1903	21.07	109	"	1904	36.97	114	"	1905	33.57	147
"	1904	29.58	112	"	1905	38.28	154	"	1906	30.69	122
"	1905	32.12	124	Oxford East	1906	38.28	144	"	1893	26.23	104
"	1906	25.12	105	"	1904	43.420	145	"	1895	33.30	92
Methven	1894	41.71	137	"	1905	46.680	146	"	1896	27.39	82
"	1895	50.07	147	Christchurch	1906	32.110	122	"	1897	15.50	66
"	1896	41.75	129	"	1864	22.000	74	"	1898	23.83	75
"	1897	29.44	130	"	1865	24.300	115	"	1899	31.28	100
"	1898	38.82	131	"	1866	19.400	87	"	1900	26.14	103
"	1899	35.71	115	"	1867	30.070	96	"	1901	26.42	82
"	1900	53.64	154	"	1868	30.041	128	"	1902	33.26	105
"	1901	46.37	131	"	1869	27.292	120	"	1903	36.98	108
Winchmore	1890	15.90	83	"	1870	28.364	137	Kapuna tiki, Rangitata	1893	23.76	122
"	1891	22.79	83	"	1871	27.935	126	Ditto	1894	18.41	113
"	1896	27.39	83	"	1872	19.741	114	"	1895	23.60	119
"	1897	15.39	66	"	1873	26.336	134	"	1896	25.22	110
"	1898	25.82	75	"	1874	22.790	135	"	1896	25.22	110
"	1899	31.28	100	"	1875	32.310	135	"	1897	14.02	97
"	1902	33.26	105	"	1876	23.990	122	"	1898	19.07	88
"	1904	36.94	108	"	1877	23.720	117	"	1899	22.37	94
"	1905	37.04	110	"	1878	13.540	104	"	1900	23.39	108
Mount Peel, Rangitata	1893	49.17	178	"	1879	23.180	126	"	1901	19.31	95
Ditto	1897	28.43	137	"	1880	17.670	103	"	1902	30.73	100
"	*1898	35.51	132	"	1905	28.450	143	"	1903	20.56	83
"	1899	43.34	131	"	1906	30.200	123	"	1904	30.05	99
"	1900	41.56	156	Port Hills	1893	19.120	118	"	1905	28.39	117
"	1901	37.72	115	"	1894	30.460	99	"	1906	18.93	93
"	1902	42.46	138	"	1895	32.600	108	Lambrook, Fairlie	1896	27.33	122
"	1903	27.73	127	"	1896	22.830	85	Ditto	1897	19.56	111
"	1904	44.64	141	"	1897	13.220	87	"	1898	28.35	123
"	1905	41.72	160	"	1898	20.970	95	"	1899	27.32	118
"	1906	32.61	116	"	1899	29.630	133	"	1900	28.60	133
The Heights, Geraldine	1905	37.97	172	"	1900	21.020	120	"	1901	26.61	120
Ditto	1906	28.08	169	"	1901	18.890	104	"	1902	35.69	136
Pleasant Point	1904	26.65	118	"	1902	24.480	120	"	1903	22.52	112
				"	1903	21.870	112	"	1905	31.75	126
				"	1904	34.010	140	"	1906	20.60	89
				"	1905	29.670	125	"			
				"	1906	29.440	115	"			
<i>Otago.</i>											
Otekaike	1899	22.54	101	Kauroo Hill	1902	28.10	92	Dunedin	1863	33.027	178
"	1900	19.14	110	Station	1903	22.47	92	"	1864	24.200	186
"	1901	21.40	122	Ditto	1904	19.12	86	"	1865	46.600	219
"	1902	26.65	119	"	1905	27.37	93	"	1866	29.000	179
"	1903	17.03	117	"	1906	14.27	69	"	1867	39.050	175
"	1904	25.45	116	"	1906	14.27	69	"	1868	33.893	116
"	1905	20.64	124	Dunedin	1852	29.330	138	"	1869	32.918	169
"	1906	15.79	95	"	1853	50.800	162	"	1870	39.202	171
Kauroo Hill	1893	24.75	118	"	1854	22.690	130	"	1871	22.146	149
Station				"	1855	22.050	104	"	1872	27.393	132
Ditto	1894	18.44	67	"	1856	25.070	113	"	1873	35.825	167
"	1895	18.70	75	"	1857	27.740	135	"	1874	28.739	156
"	1896	20.08	80	"	1858	24.500	138	"	1875	42.631	158
"	1897	11.35	63	"	1859	29.210	147	"	1876	38.260	151
"	1899	20.61	87	"	1860	20.790	122	"	1877	37.460	134
"	1900	16.28	67	"	1861	36.550	135	"	1878	45.235	157
"	1901	18.41	104	"	*1862	29.750	143	"	1879	42.099	184

\* Eleven months.

## RETURN showing the ANNUAL RAINFALL—continued.

Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.
<i>Otago—continued.</i>											
Dunedin	1880	33.063	179	Oamaru	1867	23.58	..	Waimahaka	1905	38.90	190
"	1881	26.402	170	"	1868	25.73	..	"	1906	45.56	184
"	1882	41.796	187	"	1869	18.33	..	Wallacetown,	1864	51.70	149
"	1883	38.312	175	"	1870	32.82	..	Invercargill			
"	1884	33.881	180	"	1871	16.22	..	Ditto	1865	63.60	217
"	1885	24.598	167	"	1872	19.93	..	"	1866	47.20	136
"	1886	52.632	178	"	1873	28.00	..	"	1867	41.62	153
"	1887	39.144	174	"	1874	21.79	..	"	1868	46.35	169
"	1888	48.356	157	"	1875	23.39	..	"	1869	42.68	156
"	1889	23.446	131	"	1876	17.20	..	"	1870	53.95	159
"	1890	27.984	155	"	1877	26.75	..	"	1871	39.03	144
"	1891	32.734	151	"	1878	20.26	..	"	1872	40.11	144
"	1892	47.552	160	"	1879	25.56	..	"	1873	37.48	191
"	1893	54.495	184	"	1880	20.37	..	"	1874	44.65	201
"	1894	39.436	151	"	1881	13.47	..	"	1875	44.18	201
"	1895	51.396	177	"	1882	25.67	..	"	1876	40.59	200
"	1896	48.538	181	"	1883	28.23	..	"	1877	43.15	222
"	1897	38.110	152	"	1884	26.82	..	"	1878	54.02	232
"	1898	34.143	170	"	1885	16.81	..	"	1879	33.26	175
"	1899	38.621	159	"	1886	26.36	..	"	1880	39.14	195
"	1900	43.378	153	"	1887	26.28	..	Invercargill	1891	68.50	131
"	1901	37.652	173	"	1888	29.10	..	"	1892	39.09	103
"	1902	53.564	184	"	1889	14.33	..	"	1893	35.24	119
"	1903	42.774	163	"	1890	14.15	..	"	1894	35.53	119
"	1904	48.708	168	"	1891	16.60	..	"	1895	64.93	184
"	1905	53.840	180	"	1892	23.03	..	"	1896	36.60	167
"	1906	32.440	143	"	1898	15.52	93	"	1897	52.80	169
Roxburgh	1898	23.45	131	St. Bathans's	1893	29.81	164	"	1898	58.24	207
"	1899	26.79	102	"	1894	30.04	135	"	1899	44.11	173
"	1900	17.89	96	"	1895	32.71	117	"	1900	33.39	120
"	1901	27.37	123	"	1896	30.61	116	"	1901	47.83	222
"	1902	25.57	87	"	1897	28.65	115	"	1902	..	..
"	1903	20.18	109	"	1898	31.79	136	"	1903	..	..
"	1904	26.99	121	"	1899	35.36	139	"	1904	45.80	212
"	1905	20.47	114	"	1900	34.30	131	"	1905	36.65	206
"	1906	18.24	104	"	1901	34.81	142	Portobello,	1906	20.19	156
Queenstown	1872	28.88	117	"	1902	31.18	127	Port Chalmers			
"	1873	32.30	131	"	1903	28.76	123	Dusky Sound	*1896	158.88	218
"	1874	30.19	115	Alexandra S.	1900	13.62	67	"	1897	..	..
"	*1875	31.76	114	"	1901	16.33	89	"	1898	172.96	151
"	1876	30.93	115	"	1905	12.07	92	"	1899	..	..
"	1877	35.59	130	"	1906	9.26	66	"	1900	141.49	240
"	1878	60.02	156	Clyde	1897	11.70	60	"	1901	168.04	187
"	1879	22.42	121	"	1898	14.74	63	"	1902	146.65	247
"	1880	27.69	121	"	1899	18.52	60	"	1903	144.00	217
"	1890	44.52	89	"	1900	14.31	62	"	1904	124.54	195
"	1891	28.89	88	"	1901	16.04	72	"	*1805	159.07	164
"	1892	20.87	82	"	1902	..	..	"	1906	236.90	254
"	1893	26.75	108	"	1903	12.95	48	Windsor Park,	1893	20.04	121
"	1894	23.48	88	"	1904	15.50	66	Oamaru			
"	1895	26.93	89	"	1905	13.53	63	Ditto	1894	23.71	106
"	1896	23.99	89	"	1906	12.50	64	"	1895	24.26	119
"	*1897	30.56	92	Eweburn Nur-	1897	11.71	60	"	1896	23.75	128
"	1898	37.66	105	sery				"	1897	14.12	100
"	1899	32.28	84	Ditto	1899	20.31	93	"	1898	15.96	122
"	1900	31.47	76	"	1900	18.60	83	"	1899	27.41	143
"	1901	35.55	98	"	1901	14.66	79	"	1900	20.36	118
"	1902	31.74	82	"	1902	20.53	91	"	1901	18.79	116
"	1903	27.23	67	"	1903	17.71	73	"	1902	29.56	138
"	1904	28.46	93	"	1904	20.61	92	"	1903	18.37	109
"	1905	28.74	97	"	1905	14.50	107	"	1904	19.62	98
"	1906	33.34	111	"	1906	16.51	95	"	1905	23.26	..
Nightcaps	1896	35.60	149	Balclutha	1893	23.37	106	"	1906	14.81	86
"	1897	46.62	157	"	1894	19.25	77	Orokonui Home,	1906	25.76	151
"	1898	42.58	127	"	1895	22.05	103	Waitati			
"	1899	24.82	132	"	1896	23.77	107	Caversham	1899	27.38	161
"	1900	37.57	128	"	1897	26.37	107	"	1900	40.04	153
"	1901	41.34	164	"	1898	22.99	139	"	1901	36.14	157
"	1902	43.58	179	"	1899	24.98	161	"	1902	37.22	188
"	1903	38.82	162	"	1900	23.84	105	Opoho, Dun-	1889	22.03	136
"	1904	42.25	165	"	1901	27.22	127	edin			
"	1905	40.19	171	"	1902	26.68	119	Ditto	1890	25.97	164
"	1906	40.44	162	"	1903	25.40	115	"	1891	27.86	137
Stewart Island	1900	54.12	209	"	1904	32.97	111	"	1892	38.36	148
"	1901	74.32	285	"	1905	29.13	111	"	1893	46.28	180
"	1902	72.84	283	"	1906	22.96	114	"	1894	35.04	147
"	1903	57.84	251	Wyndham	1893	36.68	140	"	1895	37.99	166
"	1904	57.85	250	"	1894	42.61	117	"	1896	37.31	185
"	1905	54.93	244	"	1895	54.10	150	"	1897	34.08	169
"	1906	74.44	242	"	1896	49.10	113	"	1898	32.55	162

\* Eleven months. † From 1881 to 1889, inclusive, no observations were taken at Queenstown. ‡ From 1893 to 1897, inclusive, no observations were taken at Oamaru. § From 1902 to 1904, inclusive, no observations were taken at Alexandra South, ¶ No observations. ¶ Ten months. \*\* Nine months.

RETURN showing the ANNUAL RAINFALL—*continued.*

Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.	Place.	Year.	Inches.	Days.
<i>Otago—continued.</i>											
Opoho, Dun-	1899	41.27	147	Kaitangata ..	1897	31.31	110	Centre Hill,	1906	52.48	171
edin				" ..	1898	29.72	103	Mossburn			
Ditto ..	1900	39.24	154	" ..	1899	24.22	98	Riverton ..	1906	51.59	204
" ..	1901	37.52	172	Woodlands ..	1904	45.08	163	Otautau ..	1894	44.09	132
" ..	1902	41.34	169	Gladbrook ..	1894	30.78	93	" ..	1895	58.90	174
" ..	1903	33.37	159	" ..	1895	30.38	117	" ..	1896	51.18	158
" ..	1904	39.37	142	" ..	1896	23.77	87	" ..	1897	55.78	142
" ..	1905	43.53	160	" ..	1897	22.46	127	" ..	1898	58.81	155
" ..	1906	24.26	162	" ..	1898	44.73	146	" ..	1899	47.48	140
Kokonga ..	1895	25.48	132	" ..	1899	31.97	144	" ..	1900	46.71	143
" ..	1896	16.18	111	" ..	1900	27.72	140	" ..	1901	52.51	189
" ..	1897	12.94	121	" ..	1901	29.58	150	" ..	1902	56.37	156
" ..	1898	15.59	127	" ..	1902	30.01	161	" ..	1903	48.03	176
" ..	1899	24.72	131	" ..	1903	27.54	125	" ..	1904	50.90	151
" ..	1900	19.77	120	" ..	1904	30.92	128	" ..	1905	46.34	176
" ..	1901	19.04	129	" ..	1906	20.56	130	" ..	1906	50.95	184
" ..	1902	24.03	139	Waikawa ..	1903	57.70	211	Blackmount,	1900	54.20	173
" ..	1903	19.77	129	" ..	1904	59.61	187	Nightcaps			
" ..	1904	24.93	140	" ..	1905	50.89	181	Ditto ..	1901	61.02	220
" ..	1905	19.18	124	" ..	1906	54.13	158	" ..	1902	55.05	201
" ..	1906	16.49	143	Dipton ..	1893	34.01	118	" ..	1903	48.22	183
Tarras ..	1902	18.91	74	" ..	1894	32.87	118	" ..	1904	56.53	194
" ..	1903	18.36	63	" ..	1895	43.47	144	Puysegur Point	1893	174.14	189
" ..	1904	21.35	65	" ..	1896	32.40	113	" ..	1895	259.04	199
" ..	1905	17.74	78	" ..	1897	35.10	123	" ..	1896	246.69	257
Tapanui ..	1898	41.40	189	" ..	1898	35.00	121	" ..	1897	258.60	270
" ..	1899	38.05	157	" ..	1899	30.01	123	" ..	1898	255.15	271
" ..	1900	33.17	147	" ..	1900	31.42	113	" ..	1899	237.82	258
" ..	1901	36.30	163	" ..	1901	35.22	148	" ..	1900	248.44	251
" ..	1902	47.30	161	" ..	1902	37.92	150	" ..	1901	172.88	274
" ..	1903	40.33	138	" ..	1903	38.19	131	" ..	*1902	69.59	253
" ..	1904	46.78	140	" ..	1904	31.14	137	" ..	1903	81.53	225
" ..	1905	45.11	114	" ..	1905	30.38	126	" ..	1904	75.16	207
" ..	1906	34.29	134	" ..	1906	33.74	128	" ..	1905	105.40	258
Kaitangata ..	1895	34.20	160	Centre Hill,	1905	47.84	179	" ..	1906	121.69	262
" ..	1896	29.78	131	Mossburn							

\* Eleven months.

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