



NEW ZEALAND  
GOVERNMENT GAZETTE  
PROVINCE OF CANTERBURY.

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Published by Authority.

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*All Public Notifications which appear in this Gazette, with any Official Signatures are to be considered as Official Communications made to those persons to whom they may relate and are to be obeyed accordingly.*

By His Honor's Command,  
EDWARD JOLLIE,  
Provincial Secretary.

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VOL. XVI.]

MONDAY, APRIL 19, 1869.

[No. XIV.]

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**H**IS ROYAL HIGHNESS THE DUKE OF EDINBURGH, K.G., will land at the Government Wharf, at Lyttelton, on Thursday, the 22nd inst. A space on the wharf will be reserved for members of the Reception Committee who may wish to be present, and they may proceed by a special train at an hour which will be notified hereafter. His Royal Highness will hold a Levée in the Provincial Council Chamber on the same day, one hour after his arrival at his residence in Christchurch. Gentlemen who have received cards of entrée, and Members of the Legislative Council, will assemble in the Provincial Council Chamber, entering at the Speaker's door. Members of the House of Representatives, and of the Provincial Council will assemble in the Library, through the entrance from the garden. Members of the City and Borough Councils, the Clergy of the several Denominations, and Officers of the Army, Navy, Militia, and Volunteers, will assemble at Bellamy's through the same entrance. Other Gentlemen are requested to enter by the entrance to the Provincial Government Offices, and to assemble in the North Lobbies. The principal entrance to the Lobby of the Council Chamber is reserved for His Royal Highness.

Each Gentleman will provide himself with two cards, with his name printed or written thereon, one to be left in the Principal Entrance Hall, the other to be given to the Governor's Aide-de-Camp.

Gentlemen attending the Levée will wear either Official Dress, Uniform, or Evening Costume.

By authority,

For the Private Secretary,

A. F. N. BLAKISTON.

VOL. XVI., No. 14.

## R E M A R K S .

The Observations at Bealey have been taken by J. M. Munre, Esq., Telegraph Manager; those at Hokitika by J. Rochfort, Esq., County Engineer.

The results obtained from the self-registering exposed thermometers at Christchurch have not been compared with those obtained during previous years, as more sensitive instruments are now in use. A black bulb solar radiation thermometer, insulated in vacuo, and a minimum thermometer, suspended over a metal disc, for terrestrial radiation, have been the instruments from which observations have been taken during the past year. This fact also must be taken into consideration when comparing the results obtained from the exposed thermometers at Hokitika and Bealey with similar observations at Christchurch, the old description of instrument being still in use at the two former places.

The amount of spontaneous evaporation at Christchurch during the year was as follows:—

January ... ..	6.553 inches.
February ... ..	4.994 „
March ... ..	3.666 „
April ... ..	2.474 „
May ... ..	1.000 „
June ... ..	0.614 „
July ... ..	0.788 „
August ... ..	1.165 „
September ... ..	2.00 „
October ... ..	4.110 „
November ... ..	6.282 „
December ... ..	8.580 „
Total ... ..	42.226 inches.
Total evaporation } for 1867 ... }	49.008 „

A severe shock of earthquake was felt on August 17, at 9.59 a.m.; another was felt on October 19, at 0.13 a.m.; and a third of a milder description on December 26.

R. MAINWARING,  
Meteorological Observer,  
Christchurch.

CHRISTCHURCH :

Printed, under the authority of the Provincial Government of the Province of Canterbury, at the *Press* Office, Cashel-street, by JOHN STEELE GUTHRIE, Official Printer for the time being to the said Government.

TABLE 3.

RESULTS OF METEOROLOGICAL OBSERVATIONS TAKEN AT HOKITIKA, WESTLAND, NEW ZEALAND, FOR THE YEAR ENDING 31ST DECEMBER, 1868.

Latitude 42 deg. 41 min. 30 sec. S. Longitude 170 deg. 59 min. E. Height above sea level 8 feet. Distance from sea, quarter of a mile.

1868.	Barometer at 9.30 a.m. Corrected and reduced to 32 deg. Fahr., and sea level.			SELF-REGISTERING THERMOMETERS.								HYGROMETER.			RAIN.				WIND.										Snow or Sleet.	Hail.	Thunderstorms.		
	Mean Pressure.	Greatest Pressure.	Least Pressure.	In Shade.				Maximum in sun.		Minimum on grass.		Dew Point.	Elastic force of vapour.	Humidity, (Sat. = 100.)	Amount.	Greatest daily fall.	Number of days on which it fell.	Mean amount of cloud at 9.30 a.m. daily, (0-10.)	Number of days it blew from each point at 9.30 a.m. daily.													Mean velocity in miles per day.	Greatest velocity in miles per day.
				Mean Temper- ature of Air.	Highest in Month.	Lowest in Month.	Mean Daily Range.	Mean tem. of Evaporation.	Mean.	Highest.	Mean.								Lowest.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.					
January .. ..	29.921	30.345	29.290	57.5	68.8	43.1	10.1	56.4	83.9	90.2	48.1	41.0	55.5	.440	93	13.28	2.88	19	6.8	3	4	1	—	—	5	2	16	—	172	463	—	—	1
February .. ..	29.834	30.283	29.063	56.7	68.1	43.1	11.7	55.6	83.7	93.5	46.2	36.6	54.8	.427	93	9.50	1.87	16	6.8	6	5	2	1	—	5	2	8	—	148	351	—	2	—
March .. ..	30.005	30.363	29.583	55.0	64.1	39.7	10.7	54.2	79.2	91.2	44.5	33.2	53.4	.409	94	6.79	1.87	16	6.7	—	5	3	9	—	9	—	4	1	143	296	—	—	—
April .. ..	29.931	30.369	29.579	52.5	64.6	36.4	11.8	51.8	74.7	81.0	41.5	29.9	51.1	.377	96	8.97	1.87	20	6.3	3	7	2	7	1	4	1	2	3	144	340	—	1	2
May ... ..	30.066	30.471	29.377	48.4	59.8	32.2	13.6	47.5	66.9	72.0	36.1	27.0	46.5	.318	94	6.93	1.38	15	6.3	—	2	—	20	1	3	—	1	4	123	239	—	—	1
June... ..	29.950	30.374	29.341	45.2	55.5	28.5	12.8	44.1	59.9	71.0	34.1	22.3	42.8	.275	91	10.44	4.02	15	5.4	—	3	2	21	1	2	—	—	1	146	288	—	—	—
July .. ..	29.941	30.461	29.131	44.1	55.1	27.7	12.7	43.9	59.8	71.5	33.7	23.3	43.7	.285	98	13.69	2.56	19	6.4	—	5	6	15	—	—	—	4	1	97	284	—	2	2
August .. ..	29.893	30.269	29.376	43.4	56.9	28.0	16.0	42.7	64.6	72.5	30.1	21.9	41.8	.266	94	4.10	1.29	14	4.7	2	3	5	14	—	1	1	1	4	126	287	—	—	—
September ..	29.991	30.538	29.448	46.9	62.0	32.4	16.7	45.4	73.1	82.0	33.5	26.5	43.7	.286	89	6.44	1.78	11	4.9	2	5	3	10	—	—	1	7	2	161	334	—	—	—
October .. ..	29.794	30.437	29.274	49.3	60.2	35.2	12.0	48.3	70.2	79.0	39.1	30.5	47.2	.326	93	14.12	2.62	23	6.2	3	5	—	2	—	6	4	11	—	203	649	—	—	—
November ..	29.952	30.326	29.428	53.2	66.3	36.2	11.2	51.7	75.8	84.0	44.0	29.8	50.2	.363	90	11.34	1.44	22	6.8	1	10	1	1	—	5	2	10	—	164	283	—	1	1
December ..	29.809	30.389	29.217	53.6	62.8	41.6	9.9	—	75.9	84.5	—	—	—	—	—	14.63	1.39	24	6.2	3	6	—	—	—	10	2	10	—	222	412	—	4	2
Year 1868 ..	Mean. 29.924	Max. (a) 30.538	Min. (b) 29.063	Mean 50.5	Max. (c) 68.1	Min. (d) 27.7	Mean 12.4	Mean appx. 49.5	Mean 72.3	Max. (e) 93.5	Mean appx. 39.7	Min. (f) 21.9	Mean appx. 48.6	Mean appx. .347	Mean appx. 93	Sum. 120.21	Max. (g) 4.02	Sum. 214	Mean 6.1	Sum. 23	Sum. 60	Sum. 25	Sum. 100	Sum. 3	Sum. 50	Sum. 15	Sum. 74	Sum. 16	Mean 154	Max. (h) 463	Sum. —	Sum. 9	Sum. 9
Year 1867 ..	—	—	—	53.3	74.0	27.5	13.6	51.7	77.8	103.8	41.6	21.5	50.1	.371	89	110.11	3.10	193	5.9	30	58	23	65	15	58	26	67	22	141	473	2	6	18
Mean of 1867-68 ..	—	—	—	51.9	—	—	13.0	50.6	75.0	—	40.6	—	49.3	.359	91	115.16	—	203	6.0	26	59	24	82	9	54	20	70	19	147	—	1	7	13

(a) 18th September. (b) 3rd February. (c) 4th February. (d) 11th July. (e) 12th February. (f) 2nd August. (g) 11th June. (h) 4th January.

TABLE 2.

RESULTS OF METEOROLOGICAL OBSERVATIONS TAKEN AT BEALEY, CANTERBURY, NEW ZEALAND, FOR THE YEAR ENDING 31ST DECEMBER, 1868.

Latitude 43 deg. 2 min. S. Longitude 171 deg. 37 min. E. Height above sea level 2100 feet. Distance from the sea, 38 miles, (West Coast).

1868.	Barometer at 9.30 a.m. Corrected and reduced to 32 deg. F.			SELF-REGISTERING THERMOMETERS.								HYGROMETER.			RAIN.			† WIND.																		
	Mean Pressure.	Greatest Pressure.	Least Pressure.	In Shade.					Maximum in sun.		Minimum on grass.		Dew Point.	Elastic force of vapour.	Humidity, (Sat. = 100.)	Amount.	Greatest daily fall.	Number of days on which it fell.	Mean amount of cloud at 9.30 a.m. daily, (0-10.)	Number of days it blew from each point at 9.30 a.m. daily.										Mean velocity in miles per day.	Greatest velocity in, miles per day.	Snow or Sleet.	Hail.	Thunderstorms.		
				Mean Tem- perature of Air.	Highest in Month.	Lowest in Month.	Mean Daily Range.	Mean tem. of Evaporation.	Mean.	Highest.	Mean.	Lowest.								N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.								
	Inches.	Inches.	Inches.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Inches.	0-100	Inches.	Inches.	Days.	0-10	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Days.	Miles	Miles	Days.	Days.
January .. ..	—	—	—	55.1	81.5	38.0	17.8	50.2	80.1	111.0	35.5	25.5	45.5	.305	71	13.484	3.050	18	4.6	—	1	—	5	—	—	—	18	3	144	346	—	—	3			
February .. ..	—	—	—	53.7	78.0	32.0	16.5	49.7	76.7	111.0	33.1	14.0	45.8	.308	75	11.223	3.070	16	6.8	—	1	—	4	—	3	—	16	5	73	260	1	—	—			
March .. ..	27.57	28.01	27.32	54.4	76.5	34.0	17.1	50.0	73.8	90.0	32.9	21.0	45.7	.307	72	3.700	1.320	11	4.0	—	1	—	2	—	3	—	19	6	103	255	—	—	1			
April .. ..	27.39	28.02	27.15	49.3	66.4	28.0	15.4	46.5	59.6	78.5	28.9	16.0	43.5	.283	80	8.340	1.94	20	5.5	—	—	—	2	—	3	—	18	7	110	263	—	—	—			
May ... ..	27.74	28.11	27.19	44.2	65.0	27.5	17.0	41.3	59.8	84.5	22.7	11.0	37.9	.228	79	10.697	3.055	17	5.2	—	—	—	4	—	1	—	15	11	82	212	2	1	3			
June... ..	27.63	27.97	26.94	37.5	53.9	12.0	13.8	35.5	53.9	92.0	19.0	5.0	32.8	.186	84	8.840	3.030	18	4.8	—	—	—	4	—	8	—	4	14	46	137	6	—	—			
July .. ..	27.63	28.09	26.91	35.1	48.2	13.0	12.6	33.8	79.2	96.5	25.8	8.9	31.8	.179	87	15.249	4.270	18	3.3	—	—	—	5	1	4	—	16	5	64	160	5	—	1			
August .. ..	27.61	27.96	27.15	36.6	48.0	22.5	13.0	35.0	90.1	111.5	24.9	12.4	32.7	.186	87	5.440	1.450	12	5.3	—	1	—	7	—	5	—	9	9	69	168	6	1	2			
September ..	27.72	28.15	27.28	42.8	58.8	25.7	17.2	40.1	99.0	124.0	27.6	17.6	36.6	.217	80	5.506	1.980	17	3.8	—	2	—	10	—	2	—	15	1	77	216	1	—	—			
October .. ..	27.47	28.06	26.98	46.0	61.7	29.0	15.4	42.6	108.7	129.8	30.4	21.5	38.7	.235	77	14.023	4.150	24	5.5	—	1	—	5	—	2	—	23	—	120	322	6	—	2			
November ..	27.58	28.05	26.93	50.7	73.0	32.5	15.8	47.0	116.4	136.5	34.2	23.5	43.1	.278	76	7.248	1.199	19	6.2	—	1	—	3	—	3	—	22	1	124	260	3	1	2			
December ..	27.50	27.99	26.91	49.1	71.4	31.4	14.1	45.9	116.6	139.5	32.9	20.4	42.5	.272	77	22.267	3.750	25	5.9	—	2	—	—	—	—	—	29	—	160	509	1	2	4			
Year 1868 ..	Mean * 27.85	Max. * 27.96	Min. * 26.91	Mean 46.2	Max. 81.5	Min. 12.0	Mean 15.5	Mean 43.1	Mean 84.5	Max. 139.5	Mean 29.0	Min. 5.0	Mean 39.7	Mean .249	Mean 79	Sum. 126.017	Max. 4.270	Sum. 215	Mean 5.1	Sum. —	Sum. 10	Sum. —	Sum. 51	Sum. 1	Sum. 34	Sum. —	Sum. 204	Sum. 62	Mean 98	Max. 509	Sum. 31	Sum. 5	Sum. 18			

\* For ten months. † Four days unregistered.

TABLE 1.

RESULTS OF METEOROLOGICAL OBSERVATIONS TAKEN AT CHRISTCHURCH, CANTERBURY, NEW ZEALAND, FOR THE YEAR ENDING 31ST DECEMBER, 1868.

Latitude 43 deg. 32 min. 16 sec. S. Longitude 172 deg. 38 min. 59 sec. E. Height above sea level 25 feet. Distance from sea, five miles.

1868.	Barometer at 9.30 a.m. and 3.30 p.m. Corrected and reduced to 32 deg. Fahr.			SELF-REGISTERING THERMOMETERS.									HYGROMETER.			RAIN.			WIND.											Snow or Sleet.	Hail.	Thunderstorms.		
				In Shade.						Maximum in sun.		Minimum on grass.		Dew Point.	Elastic force of vapour.	Humidity, (Sat. = 100.)	Amount.	Greatest daily fall.	Number of days it fell.	Mean amount of cloud at 9.30 a.m. daily, (0-10.)	Number of days it blew from each point at 9.30 a.m. daily.												Mean velocity in miles per day.	Greatest velocity in miles per day.
	Mean Pressure.	Greatest Pressure.	Least Pressure.	Mean Temperature of Air.	Highest in Month.	Lowest in Month.	Mean Daily Range.	Greatest Daily Range.	Mean tem. of Evaporation.	Mean.	Highest.	Mean.	Lowest.								N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.					
														Days.	Days.	Days.	Days.	Days.	Days.	Days.													Days.	Days.
January .. ..	29.783	30.255	29.102	60.6	78.2	42.3	16.1	27.3	56.5	142.5	148.0	45.3	29.0	52.9	.401	76	5.203	2.228	13	4.4	2	7	4	1	2	12	1	2	—	146	285	—	2	1
February .. ..	29.765	30.226	29.096	59.5	85.3	42.2	15.2	33.6	55.4	126.2	152.0	43.3	26.6	51.8	.385	76	5.664	1.503	15	5.1	—	5	9	1	2	8	—	4	—	183	301	—	1	1
March .. ..	29.842	30.300	29.345	58.1	78.0	39.4	15.6	29.7	54.5	125.2	139.2	40.1	25.2	51.2	.377	78	1.463	.933	7	4.0	1	13	6	1	2	5	1	—	2	153	451	—	—	1
April .. ..	29.763	30.178	29.072	54.6	74.7	31.4	19.7	30.5	50.4	118.5	139.2	33.8	20.0	46.4	.316	73	.632	.420	4	3.4	1	3	3	2	2	10	1	6	2	128	262	—	1	—
May .. ..	29.964	30.354	29.420	47.9	72.3	29.5	15.8	30.5	45.3	95.5	116.0	30.1	15.6	42.4	.271	83	2.139	1.035	8	4.2	1	5	7	—	—	12	—	1	5	126	257	—	—	—
June... ..	29.921	30.366	29.245	40.9	53.1	25.6	13.4	22.9	39.6	78.4	98.3	25.3	11.8	38.0	.229	90	3.947	.610	16	5.3	—	5	1	1	—	14	4	3	2	107	320	1	3	—
July... ..	29.827	30.359	28.997	41.4	61.9	24.3	15.6	22.7	39.5	89.1	105.4	22.8	10.2	37.1	.221	86	1.559	.456	11	4.5	—	9	6	2	—	8	1	2	3	90	347	1	—	—
August .. ..	29.842	30.307	29.296	41.6	64.9	25.4	14.9	26.2	39.5	96.6	118.4	23.1	10.5	36.9	.219	84	3.215	1.010	13	5.7	—	7	5	1	—	15	—	1	2	93	262	3	2	—
September..	29.879	30.473	29.421	46.6	66.0	30.6	14.0	25.8	45.7	114.6	131.6	30.7	19.7	42.6	.273	80	1.319	.451	7	4.9	1	4	12	—	1	11	1	—	144	247	—	—	—	
October .. ..	29.643	30.342	29.055	52.4	70.9	32.7	17.2	27.4	48.5	129.1	146.4	32.9	18.2	44.5	.294	75	1.150	.223	15	4.7	1	3	11	1	3	9	—	1	2	170	442	—	—	—
November ..	29.759	30.385	29.112	57.7	82.3	39.0	18.7	30.0	52.9	133.3	156.4	36.7	26.2	48.5	.342	71	2.846	1.651	8	5.1	1	5	14	—	—	5	1	3	1	179	318	—	2	—
December ..	29.614	30.287	28.998	60.3	82.7	39.0	20.5	36.4	54.1	135.7	158.5	37.3	23.6	48.7	.344	65	.904	.374	11	4.7	1	4	7	2	2	5	—	10	—	225	418	—	—	—
Year 1868 .. ..	Mean.	Max. (a)	Min. (b)	Mean (c)	Max. (d)	Min. (e)	Mean (f)	Max. (g)	Mean (h)	Mean (i)	Max. (j)	Mean (k)	Min. (l)	Mean (m)	Mean (n)	Mean (o)	Sum. (p)	Max. (q)	Sum. (r)	Mean (s)	Sum. (t)	Sum. (u)	Sum. (v)	Sum. (w)	Sum. (x)	Sum. (y)	Sum. (z)	Sum. (aa)	Sum. (ab)	Mean (ac)	Max. (ad)	Sum. (ae)	Sum. (af)	Sum. (ag)
1864-67 inclusive..	29.845	30.630	28.660	53.2	89.4	25.3	17.1	39.0	49.3	—	—	—	—	45.5	.308	76	23.986	2.172	101	4.4	10	93	63	12	11	106	18	26	21	170	470	4	8	3
1864-68 inclusive..	29.841	30.630	28.660	53.0	89.4	24.3	17.0	39.0	49.1	—	—	—	—	45.4	.308	76	25.197	2.223	106	4.5	10	88	68	12	12	108	16	28	23	164	470	4	9	3

(a) 17th September. (b) 8th July. (c) 21st February. (d) 7th July. (e) 20th December. (f) 11th December. (g) 7th July. (h) 8th January. \* Mean of four and five years. † From 1865-1867, and 1866-1868 inclusive.

ACCOUNT OF LAND IN CULTIVATION, AND OF THE AGRICULTURAL PRODUCE THEREOF, IN NEW ZEALAND, FEBRUARY, 1869.

(TAKEN UNDER THE AUTHORITY OF "THE CENSUS ACTS AMENDMENT ACT, 1867.")

SUPERINTENDENT COLLECTOR'S RETURN.—PROVINCE OF CANTERBURY.

ELECTORAL DISTRICTS.	Extent of Land broken up, but not under crop.	IN WHEAT.		IN OATS.		IN BARLEY.		IN HAY.		In Permanent Artificial Grass (including Land in Hay in previous column.)	IN POTATOES.		IN OTHER CROPS.
		Acres.	Estimated Gross Produce (in bushels.)	Acres.	Estimated Gross Produce (in bushels.)	Acres.	Estimated Gross Produce (in bushels.)	Acres.	Estimated Gross Produce (in tons.)		Acres.	Estimated Gross Produce (in tons.)	Acres.
Cheviot .. .. .	173	50	914	264	6535	—	—	70	73	579	16	54	31
Ashley .. .. .	5577	6588	109,348	5289	114,796	1580	25,911	527	407	6838	279	786	329
Kaipoi .. .. .	1129	2740	59,607	3058	77,704	1680	42,150	1018	1353	11,163	228	925	437
Avon .. .. .	1237	1574	42,420	1902	55,031	856	17,103	1121	1472	14,805	289	1154	494
Heathcote .. .. .	1639	5109	131,208	4775	15,371	1804	45,511	1282	1951	16,285	196	1161	256
Mount Herbert .. .. .	889	229	7670	226	8775	46	1360	141	255	3432	51	220	34
Akaroa .. .. .	4	20	633	6	160	—	—	148	356	6916	17	86	12
Selwyn .. .. .	7313	6263	169,879	3803	120,532	1991	38,835	320	372	6261	189	577	281
Coleridge .. .. .	4769	5350	71,555	3502	62,400	463	9119	568	583	3789	110	496	173
Timaru .. .. .	2773	4311	97,284	3344	89,198	269	6633	420	407	1993	187	920	41
Gladstone .. .. .	1055	783	33,122	798	24,978	155	4940	129	154	727	66	439	11
General Totals for Province ..	26,558	33,017	723,640	26,967	575,480	8834	191,562	5744	7383	72,528	1628	6818	2099

I certify that the above is a correct compilation from the original returns.

THOMAS Wm. MAUDE,  
Superintendent Collector.

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