



NEW ZEALAND
GOVERNMENT GAZETTE
PROVINCE OF CANTERBURY.

Published by Authority.

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.

VOL. XV.

MONDAY, DECEMBER 28, 1868.

No. LXI.

PROCLAMATION.

I, WILLIAM ROLLESTON, Superintendent of the Province of Canterbury, in pursuance of a recommendation from the Provincial Council, do hereby proclaim all that portion of the Geraldine Road Board District south of the River Orari to be an Agricultural District under the provisions of "The Trespass of Cattle Ordinance, Session XIV., No. 1."

Given under my hand, at Christchurch, this twenty-third day of December, one thousand eight hundred and sixty-eight.

WM. ROLLESTON,
Superintendent.

By His Honor's command,
EDWD. JOLLIE,
Provincial Secretary.

VOL. XV., No. 61.

TIMARU NEW HARBOUR LIGHT.

THE Provincial Government of Canterbury hereby notify that on and after Friday, January 1, 1869, a Light will be exhibited from the Government Flagstaff at Timaru.

The Light will be a Fixed Red and Bright Light. It will be elevated 50 feet above the mean level of the sea, and in clear weather should be seen at a distance of five miles. The Light will be Red to seaward, and Bright either to the north or south, and the following directions are published for the guidance of masters frequenting the above roadstead:—

"Vessels from the southward, after rounding Patiti Point, about two miles off shore, will bring the Bright Light bearing N.W. magnetic, and should then steer N. half W. until they open out the Red Light bearing W.S.W., then steer W.S.W., and anchor in $4\frac{1}{2}$ fathoms about $\frac{1}{2}$ mile off shore.

"Vessels from the north must not open the Bright Light of the Red to the northward, but on sighting the Red Light, steer W.S.W., and anchor as directed above."

By his Honor's command,
FREDK. D. GIBSON,
Chief Harbour Master.

RESULTS OF METEOROLOGICAL OBSERVATIONS

DEDUCED FROM DAILY REGISTERS KEPT AT THE

GOVERNMENT STATIONS IN CHRISTCHURCH, HOKITIKA, AND BEALEY,

FOR OCTOBER, 1868.

		CHRISTCHURCH STATION.	HOKITIKA STATION.*	BEALEY STATION.†
Latitude		43° 32' 16" S.	42° 41' 30" S.	43° 2' S.
Longitude		172° 38' 59" E.	170° 59' E.	171° 37' E.
Height above Sea		21 feet.	8 feet	2,104 feet.
Distance from Sea		5 miles.	½ mile.	38 miles (West Coast).

		CHRISTCHURCH.	HOKITIKA.	BEALEY.	
Barometer corrected and reduced to 32 deg. F.	Mean	29.643	29.782	27.470	
	Highest in Month	(29th) 30.342	(29th) 30.437	(29th) 28.06	
	Lowest in Month	(16th) 29.055	(2nd) 29.274	(16th) 26.98	
Self-registering Thermometers.	In Shade, and protected.	Mean Temperature of Atmosphere	52.4	49.3	46.0
		Mean of Highest Daily Temperature	61.0	55.3	53.8
		Mean of Lowest Daily Temperature	43.8	43.3	38.3
		Highest in Month	(31st) 70.9	(29th) 60.2	(8th) 61.7
		Lowest in Month	(11th) 32.7	(4th) 35.2	(7th) 29.0
		Mean Daily Range	17.2	12.0	15.4
	Maximum in Sun.	Mean	129.1	70.2	108.7
		Highest	(29th) 146.4	(31st) 79.0	(29th) 129.8
	Minimum on Grass.	Mean	32.9	39.1	30.4
		Lowest	(11th) 18.2	(4th) 30.5	(7th, 20th) 21.5
Hygrometer (deductions).	Mean Temperature of Evaporation	48.5	48.3	42.6	
	Mean Temperature of Dew Point	44.5	47.2	38.7	
	Mean Tension of Vapour	0.294 in.	0.326 in.	0.235 in.	
	Mean Humidity (saturation=100)	75	93	77	
	Mean Weight of a Cubic Foot of Air	535.9 grains	541.3 grains	503.3 grains	
	Mean Weight of Vapour in a Cubic Foot of Air	3.4 "	3.7 "	2.7 "	
	Mean Weight required to saturate a Cubic Foot of Air	1.1 "	0.3 "	0.9 "	
Rain.	Total amount collected in Inches	1.150	14.120	14.023	
	Greatest Fall in one Day	(16th) 0.222	(21st) 2.62	(16th) 4.150	
	Number of Days it Fell	15	23	24	
Wind.	Mean Velocity in Miles per Day	170	203 (approx.)	120	
	Greatest Velocity in Miles per Day	(16th) 442	(16th) 649	(16th) 322	
Cloud.	Mean Amount (0=clear,) (10=overcast)	4.6	6.2	5.5	

* Observer at Hokitika, JAMES ROCHFORD, Esq., County Engineer.

† Observer at Bealey, JOHN M. MUNCE, Esq., Telegraph Manager.

RESULTS OF METEOROLOGICAL OBSERVATIONS

FOR NOVEMBER, 1868.

		CHRISTCHURCH.	HOKITIKA.	BEALY.	
Barometer corrected and reduced to 32 deg. F.	Mean	29.759	29.919	27.580	
	Highest in Month	(8th) 30.385	(11th) 30.328	(9th) 28.05	
	Lowest in Month	(16th) 29.112	(16th) 29.426	(15th) 26.93	
Self-registering Thermometers.	In Shade, and protected.	Mean Temperature of Atmosphere	57.7	53.2	50.7
		Mean of Highest Daily Temperature	67.1	58.8	58.6
		Mean of Lowest Daily Temperature	48.4	47.6	42.8
		Highest in Month	(30th) 82.3	(13th) 66.3	(11th) 73.0
		Lowest in Month	(17th) 39.0	(17th) 36.2	(17th) 32.5
		Mean Daily Range	18.7	11.2	15.8
	Maximum in Sun.	Mean	133.3	75.8	116.4
		Highest	(6th) 156.4	(12th, 13th, 21st) 84.0	(13th) 136.5
	Minimum on Grass.	Mean	36.7	44.0	34.2
		Lowest	(23rd) 26.2	(17th) 29.8	(17th) 23.5
	Hygrometer (deductions).	Mean Temperature of Evaporation	52.9	51.7	47.0
		Mean Temperature of Dew Point	48.5	50.2	43.1
Mean Tension of Vapour		0.342 in.	0.363 in.	0.278 in.	
Mean Humidity (saturation = 100)		71	89	76	
Mean Weight of a Cubic Foot of Air		530.4 grains	539.6 grains	500.1 grains	
Mean Weight of Vapour in a Cubic Foot of Air		3.8 "	4.1 "	3.2 "	
Mean Weight required to saturate a Cubic Foot of Air		1.5 "	0.5 "	0.9 "	
Rain.	Total Amount collected in Inches	2.846	11.340	7.248	
	Greatest Fall in one Day	(16th) 1.651	(7th) 1.44	(16th) 1.199	
	Number of Days it Fell	8	22	19	
Wind.	Mean Velocity in Miles per Day	179	164 (approx.)	124	
	Greatest Velocity in Miles per Day	(30th) 318	(25th) 282	(29th) 260	
Cloud.	Mean Amount (0 = clear) (10 = overcast)	5.1	6.8	6.2	

REMARKS.

CHRISTCHURCH.

The weather from the 1st to the 15th October was changeable and rainy, with a heavy gale on the 8th, blowing for two hours from the north. On the 15th a very heavy gale also from the north, and accompanied by rain commenced in the evening.

It was felt on both coasts, and the following are the results as registered at 9.30 a.m. on the 16th:—

Christchurch,	442 miles wind.	0.222 in. rain.
Bealey,	322 "	4.150 "
Hokitika,	649 "	1.460 "

About 13 minutes after midnight of the 18th, a smart shock of earthquake was felt, apparently over the greater portion of both islands, and more severely in localities lying north of Christchurch. The weather was, from the 17th of October to the 15th of November, as a rule, fine, but then broke, and for a day and a-half was very rough, upwards of two inches of rain falling with severe showers of hail. An interval of fine weather then occurred, with cool winds from the north-west on the 23rd and 24th. On the 25th the wind shifted to south-west, and at night blew heavily, accompanied by rain and hail. The remainder of the month was fine, the 30th being particularly hot, with a north-west wind, and the thermometer standing at 82 deg. 3 min. in the shade.

HOKITIKA.

A considerable quantity of rain fell during October, but the weather, with the exception

of the 15th and 16th, was not severe though very windy. A thunderstorm occurred on the night of the 14th November, and rain fell all day of the 15th. The weather on the 22nd was rough, with showers of hail. On the 24th a gale blew from the north-west, with showers of rain.

BEALEY.

Snow fell on October 4th, 10th, 15th, 16th, 19th, and 20th, and on November 15th, 16th, and 22nd. The gale of October 15th was accompanied by thunder, the Barometer standing at 26.75. Thunderstorms were also experienced on October 12th and November 15th. The weather during both months was stormy, particularly so in October.

R. MAINWARING,

Observer, Christchurch.

December 12, 1868.

CHRISTCHURCH :

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