



# RESULTS OF METEOROLOGICAL OBSERVATIONS

DEDUCED FROM DAILY REGISTERS KEPT AT THE

GOVERNMENT STATIONS IN CHRISTCHURCH, HOKITIKA, AND BEALEY,

FOR AUGUST, 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.	¼ mile.	38 miles (West Coast).

  

		CHRISTCHURCH.	HOKITIKA.	BEALEY.	
Barometer corrected and reduced to 32 deg. F.	Mean	29.842	29.853	27.61	
	Highest in Month	(27th) 30.307	(27th) 30.269	(27th) 27.96	
	Lowest in Month	(1st) 29.296	(2nd) 29.376	(22nd) 27.15	
Self-registering Thermometers.	In Shade, and protected.	Mean Temperature of Atmosphere	41.6	43.4	36.6
		Mean of Highest Daily Temperature	49.1	51.4	43.1
		Mean of Lowest Daily Temperature	34.2	35.4	30.1
		Highest in Month	(31st) 64.9	(27th) 56.9	(10th) 48.0
		Lowest in Month	(14th) 25.4	(25th) 28.0	(27th) 22.5
		Mean Daily Range	14.9	16.0	13.0
	Maximum in Sun.	Mean	96.6	64.6	90.1
		Highest	(19th) 118.4	(18th and 19th) 72.5	(27th) 111.5
	Minimum on Grass.	Mean	23.1	30.1	24.9
		Lowest	(13th) 10.5	(2nd) 21.9	(15th) 12.4
Hygrometer (deductions).	Mean Temperature of Evaporation	39.5	42.7	35.0	
	Mean Temperature of Dew Point	36.9	41.8	32.7	
	Mean Tension of Vapour	.219	.266	.186	
	Mean Humidity (saturation=100)	64	94	87	
	Mean Weight of a Cubic Foot of Air	551.4 grains	549.4 grains	515.6 grains	
	Mean Weight of Vapour in a Cubic Foot of Air	2.5 "	3.1 "	2.1 "	
	Mean Weight required to saturate a Cubic Foot of Air	0.5 "	0.2 "	0.4 "	
Rain.	Total amount collected in Inches	3.215	4.10	5.440	
	Greatest Fall in one Day	(26th) 1.010	(21st) 1.29	(31st) 1.450	
	Number of Days it Fell	13	14	12	
Wind.	Mean Velocity in Miles per Day	93	126.5	69	
	Greatest Velocity in Miles per Day	(25th) 262	(30th) 287	(9th) 168	
Cloud.	Mean Amount (0=clear, 10=overcast)	5.5	4.7	5.3	

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

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

## RESULTS OF METEOROLOGICAL OBSERVATIONS

FOR SEPTEMBER, 1868.

		CHRISTCHURCH.	HOKITIKA.	BEALY.	
Barometer corrected and reduced to 32 deg. F.	Mean - - - - -	29.879	29.692	27.72	
	Highest in Month - - -	(17th) 30.473	(18th) 30.538	(17th) 28.15	
	Lowest in Month - - -	(29th) 29.421	(1st) 29.448	(29th) 27.28	
Self-registering Thermometers.	In Shade, and protected.	Mean Temperature of Atmosphere -	48.6	46.9	42.8
		Mean of Highest Daily Temperature -	55.6	55.2	51.4
		Mean of Lowest Daily Temperature -	41.6	38.5	34.2
		Highest in Month - - -	(26th) 66.0	(22nd) 62.0	(19th) 58.8
		Lowest in Month - - -	(15th) 30.6	(7th) 32.4	(23rd) 25.7
		Mean Daily Range - - -	14.0	16.7	17.2
	Maximum in Sun.	Mean - - - - -	114.6	73.1	99.0
		Highest - - - - -	(17th) 131.6	(6th) 82.0	(29th) 124.0
	Minimum on Grass.	Mean - - - - -	30.7	33.5	27.6
		Lowest - - - - -	(13th) 19.7	(2nd) 26.5	(23rd) 17.6
Hygrometer (deductions).	Mean Temperature of Evaporation -	45.7	45.4	40.1	
	Mean Temperature of Dew Point -	42.6	43.7	36.6	
	Mean Tension of Vapour - - -	.273	.286	.217	
	Mean Humidity (saturation = 100) -	80	89	80	
	Mean Weight of a Cubic Foot of Air -	544.7 grains	542.6 grains	510.9 grains	
	Mean Weight of Vapour in a Cubic Foot of Air - - - - -	3.1 ,,	3.2 ,,	2.5 ,,	
	Mean Weight required to saturate a Cubic Foot of Air - - - - -	0.5 ,,	0.5 ,,	0.7 ,,	
Rain.	Total Amount collected in Inches -	1.319	6.44	5.506	
	Greatest Fall in one Day - - -	(1st) 0.451	(1st) 1.78	(1st) 1.980	
	Number of Days it Fell - - -	7	12	17	
Wind.	Mean Velocity in Miles per Day -	144	161	77	
	Greatest Velocity in Miles per Day -	(28th) 247	(12th) 334	(20th) 216	
Cloud.	Mean Amount (0 = clear) (10 = overcast)	4.5	4.9	3.8	

## REMARKS.

## CHRISTCHURCH.

The two first days in August were cold and wet, half an inch of snow falling on the 2nd. From that day to the 18th, the weather was, as a rule, very fine and pleasant. Between three and four o'clock on the

morning of the 15th, an earthquake wave struck the east coast of the Island, and a few minutes before ten o'clock a.m. of the 17th a sharp shock of earthquake was felt. On neither occasion was any warning given by the Barometer that anything unusual was about to

occur. At the time of the earthquake it stood at 30.122 (uncorrected). From the 18th to the 27th, the weather was very unsettled; on the 25th, a south-west gale with snow and hail lasted all day, the snow in the morning lying on the ground to the depth of one and a quarter inch. The last four days were fine. During the whole of the month the cold during the nights was occasionally very severe. The month of September was almost uninterruptedly fine; the 1st, 27th, and 28th, being the only days on which any really bad weather was experienced.

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HOKITIKA.

No severe weather was experienced at this Station during August; but both this month and September were unusually fine.

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BEALEY.

Snow fell on six days in August, the weather in particular on the 21st, 25th, 30th, and 31st, being very rough; on the two latter days thunderstorms with rain and snow were experienced. The month of September at this Station also was fine, though showery; the only fall of snow was on the 1st.

B. MAINWARING,

Observer, Christchurch.

October 13th, 1868.

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TIMARU BOROUGH COUNCIL.

NOTICE.

IN pursuance of Section 240, Part XVI of "The Municipal Corporations Act, 1867," notice is hereby given that on Monday, the Ninth day of November, next

ensuing, the Council will take into consideration the expediency of borrowing the sum of Two Thousand Pounds (£2000) Sterling, on the security of a Special Rate, to carry out the following Works; viz.:

Placing a Culvert across the Main South Road at the Bank of New Zealand, and across the Beach Road.

Lowering the Hill on the Main South Road between George Street and Woolcombe Street to adopted levels.

Widening and Raising the Main South Road at Stoney Gulley—north boundary of Township.

Sinking Wells in various parts of the Town.

Side Channelling and Curbing Footpaths on Main South Road.

By Debentures of Fifty Pounds (£50) sterling each, at 3, 5, and 7 years, respectively; bearing Interest at £10 per cent., payable at the Bank of New Zealand, Timaru, upon security of an Annual Special Rate of Sixpence in the Pound (£1) Sterling on all assessed Property within the Borough; the said Rate shall be collected at intervals of Six Months.

By order of the Timaru Borough Council,

EDWIN H. LOUGH,

Town Clerk.

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Provincial Secretary's Office,

Christchurch, 16th Oct., 1868.

HIS Honor the Deputy Superintendent directs it to be notified that he has appointed

CONSTABLE JOHN MULLINS

to be an Inspector of Slaughter Houses for the Christchurch District.

EDWD. JOLLIE,

Provincial Secretary.

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CHRISTCHURCH:

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