

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,
 F. E. STEWART,
 Provincial Secretary.

VOL. XIV.] WEDNESDAY, SEPTEMBER 25, 1867. [No. LXIII.

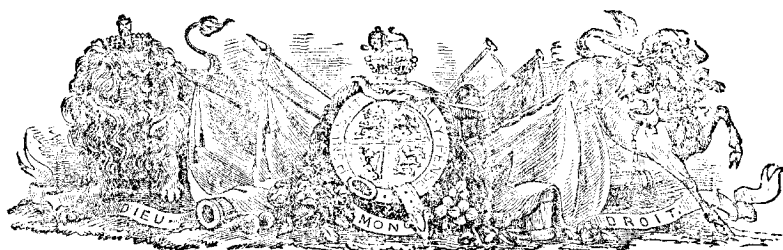
THE Revising Commissioner appointed under "The Roads Ordinance Amendment Ordinance, 1867," Session XXVII, hereby gives notice that he will hold Courts for Revising the several Rolls of the Districts referred to in the Schedule annexed, at the following times.

NAME OF DISTRICT.	PLACE OF MEETING.	DATE AND HOUR.
Port Levy ...	Mr. Fleming's House	Wednesday, 2nd October, at 1 p.m.
Pigeon Bay ...	Pigeon Bay Hotel	Thursday, 3rd " at noon
Akaroa and Wainui.	Court House, Akaroa	Saturday, 5th " at 11 a.m.
Okain Bay ...	Court House, Akaroa	Saturday, 5th " at 1 p.m.
Port Victoria	Foster's Accommodation House	Monday, 7th " at noon
Heathcote ...	Board Office, Ferry Road	Wednesday, 9th " at noon
Courtenay ...	White's Accommodation House	Friday, 11th " at 1 p.m.
Malvern	McRae's Accommodation House	Saturday, 12th " at 1 p.m.
Rakaia	Selwyn Hotel	Monday, 14th " at 1 p.m.
Ellesmere ...	Board Office, Leeston	Tuesday, 15th " at 1 p.m.
Springs	Board Office, Ellesmere, Junction Road	Wednesday, 16th " at 1 p.m.
Little River...	Beach Hotel, Waikoko, Lake Forsyth	Friday, 18th " at 11 a.m.
Halswell	Mr. M. J. Burke's House	Saturday, 19th " at 1 p.m.
Lincoln	Board Office, Shand's Road	Monday, 21st " at 1 p.m.
Spreydon ...	Craythorne's Hotel, Lincoln Road	Tuesday, 22nd " at 1 p.m.
Templeton ...	Taylor's Harewood Hotel	Wednesday, 23rd " at 1 p.m.
Riccarton ...	Plough Inn (Dilloway's)	Thursday, 24th " at 1 p.m.
Avon	Board Office, Papanui Road	Friday, 25th " at 1 p.m.

JOSEPH BESWICK,
 Commissioner.


CHRISTCHURCH :

Printed, under the authority of the Provincial Government of the Province of Canterbury, at the ' Press ' Office, Cashel-street, by JAMES EDWARD FITZGERALD, Official Printer for the time being to the said Government.



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By His Honor's Command,

F. E. STEWART,
Provincial Secretary.

VOL. XIV.]

TUESDAY, OCTOBER 1, 1867.

[No. LXIV.

[WITH SUPPLEMENT.]

Gold Fields Secretary's Office,
Hokitika, September 23, 1867.

HIS Honor the Superintendent, in pursuance of certain powers vested in him by "The Empowering Ordinance, Sess. II, No. 2," directs it to be notified that the Footpath hereinafter described having been well and sufficiently made and completed for the use and accommodation of foot passengers, according to the provisions of "The Footpaths Ordinance, Sess. VII, No. 12," is hereby declared to be a Public Footpath, and from and after the date hereof shall be deemed and taken accordingly to be a Public Footpath within the meaning of the said Ordinance.

The said Footpath is as follows:—

Extending along Gibson Quay, Hokitika, from Sale Street to Fitzherbert Street.

JAMES A. BONAR,
Secretary for the Gold Fields.

ROSS EXTENDED GOLD MINING COMPANY
(LIMITED), ROSS.

AN Extraordinary Meeting of the Shareholders in the above Company will be held at the Company's Office, Ross, on the Fourth day of October, 1867, at seven o'clock P.M.

Business of the Meeting:—To increase the Capital of the Company, and to appoint Officers for the same.

WILLIAM FALER,
Manager pro tem.

Provincial Secretary's Office,
Christchurch, Sept. 12, 1867.

HIS Honor the Deputy Superintendent directs it to be notified that a Writ, calling for the Election of a Member to serve in the Provincial Council for the Town of Hokitika District, has been returned to him with the endorsement that

JAMES ALEXANDER BONAR, Esq.,
has been duly elected.

A. BLAKISTON,
Under Secretary.

Provincial Secretary's Office,
Christchurch, Sept. 25, 1867.

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

PHILIP WILLIAM FENDALL, Esq.,
to be acting Provincial Sub-Treasurer at Timaru, during the absence of Belfield Woolcombe, Esq., on leave.

A. BLAKISTON,
Under Secretary.

Public Works Office,
Christchurch, Sept. 27, 1867.

HIS Honor the Deputy Superintendent directs it to be notified that he has been pleased to appoint

WILLIAM FORSTER
to be an Inspector under "The Thistle Ordinance, 1866."

A. BLAKISTON,
Under Secretary,
for the Secretary for Public Works.
Vol. 14.—No. 64.

RESULTS OF METEOROLOGICAL OBSERVATIONS

DEDUCED FROM DAILY REGISTERS KEPT AT THE

Government Stations in Christchurch, and Hokitika, for AUGUST, 1867.

		CHRISTCHURCH STATION.	HOKITIKA STATION.*
Latitude	- - - -	43° 32' 16" S.	42° 41' 30" S.
Longitude	- - - -	172° 38' 59" E.	170° 59' 0" E.
Height above Sea	- - - -	21 feet.	8 feet.
Distance from Sea	- - - -	5 miles.	$\frac{1}{4}$ mile.

		CHRISTCHURCH.	HOKITIKA.	
Barometer corrected and reduced to 32 deg. F.	Mean	29.708	29.781.	
	Highest in Month	(25th) 30.468	(26th) 30.552	
	Lowest in Month	(6th) 29.127	(2nd) 29.214	
Self-registering Thermometers.	In Shade, and protected.	Mean Temperature of Atmosphere	44.6	45.5
		Mean of all Highest	53.1	52.8
		Mean of all Lowest	36.3	38.3
		Highest in Month	(29th) 66.8	(15th) 61.0
		Lowest in Month	(9th) 27.4	(11th) 28.0
		Mean Daily Range	16.8	14.5
Maximum in Sun.	Mean	70.1	67.1	
	Highest in Month	(28th) 97.0	(2nd) 77.0	
Minimum on Grass.	Mean	29.6	33.4	
	Lowest in Month	(9th) 19.8	(8th) 22.0	
Hygrometer (deductions).	Mean Temperature of Evaporation	41.3	43.6	
	Mean Temperature of Dew Point	37.4	41.5	
	Mean Tension of Vapour	0.224	0.262	
	Mean Humidity (saturation = 100)	75	86	
	Mean Weight of a Cubic Foot of Air	545.9 grains	545.9 grains	
	Mean Weight of Vapour in a Cubic Foot of Air	2.6 "	3.0 "	
	Mean Weight required to saturate a Cubic Foot of Air	0.7 "	0.5 "	
Rain.	Total amount collected, in Inches	3.907	9.60	
	Greatest Fall in one Day	1.350	(27th) 1.22	
	Number of Days it fell	13	18	
Wind.	Mean Velocity in Miles per Day	149	159	
	Greatest Velocity in Miles per Day	(14th) 338	(6th) 458	
Cloud.	Mean Amount (0 = clear, 10 = overcast)	4.4	6.3	

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

REMARKS.

CHRISTCHURCH.

The month of August opened with a continuation of the very severe weather which prevailed at the close of July. From the 29th of that month to the 3rd or 4th of August, nearly the whole of the Middle Island of New Zealand and part of the North

Island was visited by a succession of gales, accompanied with a very heavy snow fall in the interior, and rain along the sea-coast, which, for duration, extent, and general effects has scarcely been equalled since the colony was founded. Accounts from all parts, especially the central and eastern por-

tion of this island, describe the weather during that period as severe in the extreme, and speak of floods and storms, of injury done to roads and districts, and interrupted traffic, and the heavy loss sustained by some of the settlers' flocks.

The gale was not a revolving one, but a pure polar current of great width, extending over at least 20° of longitude, as shown by vessels at sea at the time. The direction varied in places from S.E. to S.W.; S.E. mostly at sea, but S.W. or S. on the Canterbury plains, and in places where the wind was deflected by high lands.

At Christchurch a change of weather was foretold by the rapid and steady fall of the barometer, which reached its lowest point, 29.29 inches, (corrected and reduced at 21 feet above sea) at midday on the 29th July, just as the weather broke. Until the 8th of August the glass continued very low, and rose but little during the long continued southerly weather, a sure sign of continuous and extensive gales. The other instruments showed few indications of any remarkable atmospheric disturbance. On the evening of the 30th July, before the heaviest of the rain and snow, the air was very dry for the time and season; at 9.30 p.m., relative humidity was only 72, vapour tension, .192. The mean temperature of the six days ending August 4th was $41^{\circ} 8$; mean dew point, $37^{\circ} 3$, about the lowest on record here for such a period.

Rain fell without ceasing on the 30th and 31st July, and in heavy showers on the 1st and 2nd August; the wind steady at S.W., and blowing hard nearly all the time, with violent squalls. The rainfall during this period was 2.13 inches, but no snow or hail fell in the immediate neighbourhood of the town. On the 30th and 31st July the velocity of the wind registered by Robinson's gauge was 303 and 328 miles, respectively.

At Lyttelton the force and duration of the gale and the rainfall were nearly similar to Christchurch. The wind blew with great violence only on the 31st July from S.S.W. with heavy rain, which continued with slight intermission during the two following days, accompanied with a strong wind. No injury was done to the ships in the harbour, but some small boats were much damaged as usual with a storm from this quarter.

At Godley Head, Mr. Chapman, principal light-house keeper, reports a hard gale from S.E. with heavy rain and snow from the afternoon of July 29th to the night of August 1st; and from S.W., also with rain and snow, on the 2nd of August. The sea throughout, very high and broken. At sea along the East Coast, south and north, the same hard S.E. gale was experienced during the same four or five days.

At Dunedin, H. Skey, Esq., Meteorological Observer, states that the stormy weather began on the morning of the 29th July, or a few hours earlier than with us, and that more or less rain fell every day following until the 10th August, with gales on the 4th, 5th, 6th, and 7th, always from S.W. It snowed on

the nights of the 4th, 6th, and 8th, the snow melting on the low lands on the following days. The barometer reached its minimum on the 6th August, when it fell to 29.18, (corrected). From the Bluff, on the extreme south of this island, to Wellington in the north island, the accounts are nearly the same as to the force and duration of the storms. At Wellington especially the weather was exceedingly severe, more so than was known there at any time previous.

Inland in Canterbury, on ascending the plains, the snowfall increased in depth according to the elevation of the country, making its appearance first at an altitude of about 300 feet above the sea level. At 400 to 500 feet above sea level a considerable quantity appears to have fallen, while on the plains about Oxford the ground was at one time covered to a uniform depth of 12 to 14 inches. Along the eastern base of the hills large tracts were covered with upwards of three feet of snow, so that the wire fences were, for a time invisible. Porter Pass was snowed up, and all traffic stopped for about a fortnight, immense drifts of snow having accumulated in many places.

At Timaru, from full accounts kindly supplied by W. Williamson, Esq., the force of wind does not appear to have been very great, but the inclement weather lasted quite so long as at Christchurch, and was remarkable from the fact that snow made its appearance in the town, though only in small quantities, "sufficient to make a snow-ball," the first time such a phenomenon has been witnessed there since the district was settled. The direction of the wind varied from E. to S.E., the sea very high and much broken. The low lying ranges at the back of the town were covered with quite a foot of snow, and Burke Pass could be crossed with difficulty only by those who knew the road well. Inside the Pass, about Lake Tekapo and the Hakateramea river, the fall of snow was very heavy, while the lower parts of McKenzie country, and southwards across the Dunstan Range, there appears to have been less than the usual quantity of winter snow, and no loss to sheep. Communication between Timaru and the outlying districts north and south was entirely suspended for a while by the floods, the rivers Pareora and Temuka having risen higher than they were ever known before.

At the Waimate, on the river Waihoa, near the extreme south of the Province, T. E. Parker, Esq., reports that the weather broke there on the 28th July, and that it blew hard with rain and snow alternately until midday, August 2nd. The rivers were much flooded, and much loss was sustained by settlers' flocks. The rainfall (or melted snow) in that district in the above period of five days was 5.92 inches.

As regards the extent of the gale east and west of New Zealand, many interesting particulars have been supplied by the kindness of Captain Gibson, Port Officer, who consulted masters of vessels, and made extracts from the logs of ships which were at sea at that time, from which the follow-

ing information has been extracted: The master of the barque "A. H. Badger," during a passage from Newcastle, N.S.W., to Lyttelton reports that—

"On July 29th, in latitude $35^{\circ} 50'$ S., longitude $159^{\circ} 56'$ E., barometer $29\cdot60$, fell in with a heavy gale of wind from S.E., accompanied with thunder and lightning and heavy rain. July 30—hard gale, with terrific squalls, drizzling rain and vivid lightning; barometer $29\cdot70$; wind veering from S.E. to S. Still hove-to. July 31—still hard gale, terrific squalls and incessant rain through first part, midday and later; fine and dry; wind steady at S. Latitude observed, $34^{\circ} 51'$ S., longitude, $160^{\circ} 43'$ E.: barometer, $29\cdot97$. August 1—still hard gale with violent squalls, incessant heavy rain for most part; wind steady from south. August 2—still hard gale; wind veered to S.S.W., with violent squalls and heavy rain. Barometer, $29\cdot85$. Still hove-to. August 3—still hard gales with violent squalls and lightning to eastward, wind S.S.W.; at midnight wind and sea moderated: set sail, barometer, $29\cdot90$. But all through up to August 9 had strong winds at times, amounting to a smart gale with violent squalls and thick weather. On this day barometer down to $29\cdot30$; wind S.S.W., blowing a complete hurricane up to midnight, when it veered to S.E., light, with fine weather."

At Newcastle, N.S.W. Master of the "Cantero" reports fine weather with light variable breezes during the same period.

At Chatham Islands, the master of the "Despatch" describes the weather as very fine, with light S.E. winds, until the 3rd or 4th August, when it blew a heavy S.W. gale. Barometer down to $28\cdot28$ inches.

South of the Steeples the schooner "Wild Wave" fell in with a terrific gale from the south, on the 30th July.

At Christchurch, the stormy wet weather having subsided on the 4th of August, several bright, warm days followed, with a strong dry N.W. wind and cloudless sky, except over the mountains in the interior, in which direction bright sheet lightning was often visible at night during the same period. On the evening of the 8th there fell at Christchurch a very heavy shower of hail, followed at night by a hard frost, which caused a thick crust of ice in the streets next morning. Two very fine days again succeeded, after which cold showery weather prevailed until the 17th. From the 18th to the close of the month the sky was in general cloudless. Frequent but (except on the 21st) not strong N.W. winds blew in this interval, and occasionally sheet lightning was visible at night over the mountains in that direction. There was besides a thick, damp fog for two hours on the evening of the 25th, and a very slight thunder storm on the 30th, with showers of rain and hail.

The mean direction of the wind during the month was S.E. by S. The mean temperature was slightly above the average, or $44^{\circ} 6$ to $43^{\circ} 9$; the other conditions also closely agreed with the mean of previous years, except the rainfall, which was much

in excess, namely, $3\cdot91$ inches compared to $1\cdot88$ inches. Number of frosty nights, 20. Range of temperature in shade $39^{\circ} 4$, or from $66^{\circ} 8$ to $27^{\circ} 4$. Mean daily range, $16^{\circ} 8$ against $17^{\circ} 0$, the average. Highest and lowest mean daily temperature, $53^{\circ} 0$ and $38^{\circ} 5$. Lunar halos were seen on the 10th and 12th. Gales, or very high winds on the 2nd, S.W.; 6th and 21st, N.W.; and 14th, E. Rainfall from January 1st to August 31st each year, as follows:—

1867	...	$21\cdot838$	inches on 64 days.
1866	...	$12\cdot946$	" 54 "
1865	...	$18\cdot103$	" 65 "
1864	...	$14\cdot423$	" 71 "

Rainfall at Lyttelton, in August, (Captain Gibson) $5\cdot80$ inches on thirteen days.

Rainfall at Christchurch during the winter months, June, July, and August, compared with previous years, as follows:—

1867	...	$13\cdot498$	inches on 37 days.
1866	...	$4\cdot074$	" 21 "
1865	...	$6\cdot924$	" 28 "
1864	...	$8\cdot671$	" 30 "
1861	...	$26\cdot03$	" 25 "
1860	...	$24\cdot64$	" 69 "
1859	...	$3\cdot20$	" 23 "
1858	...	$18\cdot55$	" 59 "

NOTE:—The Returns for 1858 to 1861 inclusive, are extracted from tables of observations taken by I. T. Cookson, Esq., in Heathcote Valley, but the particulars of the character of gauge and its height above ground are not stated.

НОКИТИКА.

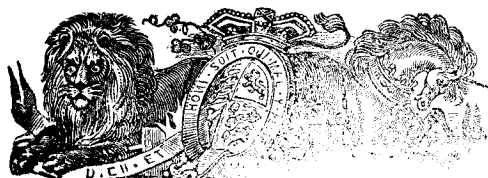
At this station on the West Coast, the 1st and 2nd days of the month were fine and nearly calm, but the weather broke on the 3rd, just when it began to moderate on the east side of the Province, and six days of the very roughest weather followed. There were heavy gales from W. and S.W. on the 4th, 5th, and 6th, with thunder and lightning, rain and hail. On the 7th and 8th the wind fell, but the rain and hail continued, mingled with snow or sleet. From the 9th to the 17th it was fine in general, also from the 23rd to the 26th. The remainder of the month was very unsettled, with frequent showery or wet days, and gales from N.W. on the night of the 21st, and from S.W. on the 22nd. Total rainfall, $9\cdot60$ inches on 18 days; maximum fall, $1\cdot22$ inches on the 27th. The greatest velocity of wind in 24 hours, 458 miles, on the 6th. Mean temperature in shade, $45^{\circ} 5$, or about one degree higher than in Christchurch. Number of frosty nights, 11. Coldest night (exposed thermometer), 22° , on the 8th. Range of temperature for month, 33° , or from 61° to 28° . Mean direction of the wind, S.S.W.

Rainfall from January 1 to August 31 each year as follows:—

1867	...	$56\cdot39$	inches on 112 days.
1866	...	$82\cdot65$	" 132 "

R. L. HOLMES
Meteorological Observer,
Christchurch.

V.



R.

NOTICE.

I hereby give notice, in accordance with the provisions of Clause XXXIX of "The Crown Grants Act, 1866," that the following Crown Grants are now ready for delivery to the respective Grantees, at the Land Office, Christchurch.

NAME OF GRANTEE.	NO. OF SECTION.
Andrew, W. B.	10182, 9509, and 9129
Allen, M.	8181
Andrew, W. B.	7968
Barnes, W. H.	9481
Croskell, R. and W.	9782
Edmiston, M.	10219
Elsbee, J.	9270
Hillyard, C.	9607 and 9608
Humphreys and Chapman	9463
Hoskyns, J.	9067
Johnstone, H. B.	9911
Keene, G. R.	4465
Do.	4505
Maddison, W. R.	6442, 5803, and 5390
Palmer, J.	10297
Reade, G. A.	10255
Rose, H.	10143
Roberts, J.	10001
Rose, A.	9453
White, W.	10036
Wells and Wright	9458
Wallace, T.	6661

WILLIAM GUISE BRITTAN,
Commissioner of Crown Lands.

Land Office, Christchurch,
26th September, 1867.

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