

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for September 1965—continued

Station	Height of Station Above M.S.L.	Air Temperatures in Degrees (Fahrenheit)								Rainfall in Inches					Bright Sunshine
		Means of		Mean of A and B	Difference From Normal	Absolute Maximum and Minimum				Total Fall	No. of Rain Days	Difference From Normal	Maximum Fall		
		A Max.	B Min.			Maximum	Date	Minimum	Date				Amount	Date	
	Ft.	°F.	°F.	°F.	+0.3	°F.		°F.		In.		In.		Hrs.	
Ophir	1,000	58.8	32.2	45.5	+0.3	64.8	20	21.2	5	0.78	3	-0.32	0.52	3	
Moa Creek	1,400	56.6	31.6	44.1	+1.0	65.0	13	22.3	5	0.70	7	-0.20	0.47	2	
Earnscleugh	500	60.9	32.7	46.8	+0.3	72.2	13	21.8	6	0.62	6	-0.28	0.19	2	
Alexandra	461	60.6	36.8	48.7	+1.1	72.7	13	27.7	6	0.60	7	-0.20	0.15	2	
Roxburgh Hydro	350	60.0	..	..	..	70.3	13	23.0	2	0.96	8	-0.34	0.28	2
Moa Flat, West Otago	1,345	54.4	36.9	45.6	+1.0	64.3	17	31.2	8	1.56	13	-0.44	0.33	24	
Lake Mahinerangi	1,300	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapanui	740	56.6	38.4	47.5	+0.7	64.5	17	30.0	6	1.82	11	-0.89	0.46	2	
Rankleburn Forest	835	55.5	37.0	46.2	+0.4	67.0	17	27.8	5	2.95	13	..	0.50	26	
Otautau	180	56.4	38.0	47.2	+0.7	66.0	9	22.0	5	3.88	16	+0.58	0.85	2	
Gore	230	56.5	38.6	47.6	-0.1	64.0	9	29.5	6	2.51	13	+0.01	0.56	2	
East Gore	245	..	..	..	..	..	..	..	..	..	..	..	..	..
Winton	150	56.0	38.4	47.2	..	63.6	9	22.3	6	2.42	14	..	0.90	2	
Pebble Hills	138	57.7	41.5	49.6	+2.5	70.0	16	27.0	6	2.69	14	-0.30	0.85	2	
Invercargill Airport	1	55.4	39.0	47.2	+0.9	62.9	9	28.4	5	3.00	16	-0.30	0.60	2	
Milton	60	57.8	36.8	47.3	..	70.0	15	25.4	6	1.40	11	-0.60	0.28	2	
Balclutha	20	56.3	36.8	46.6	..	66.1	15	26.4	6	1.24	9	..	0.27	27	
Rarotonga	15	75.0	63.2	69.1	..	80.2	9	53.8	30	2.07	12	..	0.53	3	
Raoul Island	126	65.1	54.9	60.0	..	70.0	25	50.5	23	2.84	13	..	0.84	17	
Chatham Islands	157	52.0	43.1	47.6	-0.6	58.0	18	36.1	28	2.99	16	+0.49	0.50	19	
Campbell Island	49	46.7	37.7	42.2	..	49.6	17	28.0	12	5.72	25	..	1.14	27	
Scott Base, Antarctica	45	..	..	-16.8	..	+11.7	..	-42.7	..	..	..	..	..	..

LATE RETURNS

Woodhill, August 1965	100	56.5	44.9	50.7	-0.5	63.8	14	27.5	8	9.16	18	+4.46	2.10	26
Paeroa, August 1965	27	57.4	42.0	49.7	-0.4	65.2	16	25.0	8	13.11	20	+8.71	4.18	25
Ranana, July 1965	1,200	50.8	34.2	42.5	..	60.0	24	25.0	22	6.89	18	..	1.05	31
Naseby, August 1965	2,000	45.7	26.7	36.2	-1.7	58.0	29	16.0	4	0.33	6	-1.17	0.17	20
Waipiata, August 1965	1,550	47.2	28.5	37.8	-1.9	57.0	31	19.0	4	0.40	6	-0.60	0.24	21
Foxton, August 1965 .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	114

The "normal" refers to the present site of the instruments. The standard periods for normals are: for temperature 1931-60, for rainfall 1921-50, and for sunshine 1935-60. No normals are available for stations with only short records.

NOTES ON THE WEATHER FOR SEPTEMBER 1965

General: September was marked by rather more frequent and persistent winds from a westerly quarter than usual. It was also a dry month in most districts, especially after the wet and unpleasant winter. However, by the end of the month conditions were very dry in parts of Marlborough, and in the Auckland Province the lack of rain was retarding pasture growth.

On the 18th a local tornado caused some damage in New Plymouth.

Rainfall: Rainfall was below average over the greater part of the country. In northern districts of the North Island and most northern and eastern districts of the South Island it was less than half of the normal value. Around Blenheim totals were below a quarter of an inch and among the lowest on record.

Over most of the Gisborne district and parts of northern Hawke's Bay rainfall was 50 per cent above average. In this area nearly all the rain fell between the 4th and the 8th. The largest area of above-normal rainfall was the West Coast together with western Nelson and some areas to the east, including the Southern Lakes district. The other area was about Foveaux Strait; and in this area, as on the West Coast, rainfall was regular throughout the month.

Temperatures: Temperatures were mainly close to average. However, in Canterbury and parts of Otago they were 1.2 degrees above average.

Snow fell to low levels in inland Southland on the 2nd and 3rd and also affected the high country elsewhere as far north as Ruapehu.

Sunshine: The North Island south of Auckland, Marlborough, and parts of Nelson and North and inland Canterbury were favoured with 20 hours more sunshine than average. In western and most southern districts of the South Island sunshine was below average by about the same amount.

Weather Sequence: On the 1st an anticyclone covered the country, with settled weather. However, during the next three days a trough of low pressure associated with a small depression crossed the

country. It was accompanied by a change to cold southerlies, with snow to low levels in Southland and Central Otago and rain in most other districts, except for the Auckland Province. An anticyclone soon brought settled weather again to most of the country, but from the 5th to the 8th the depression remained active to the north-east, and further rain was reported in Gisborne and Hawke's Bay.

For the remainder of the month westerly weather alternated with brief anticyclonic spells, and eastern districts from Oamaru to Gisborne received little rain.

From the 9th to the 11th an anticyclone was centred over the North Island and the weather was generally fine. However, the weather deteriorated on the West Coast and in Manawatu as a complex depression became almost stationary over the eastern Tasman Sea from the 12th to the 14th. During the next four days the depression moved on to the North Island, losing intensity, followed by a series of rapidly moving westerly troughs. Rain became general, except in eastern districts.

Better weather prevailed once again on the 20th and 21st as an anticyclone passed over Northland. The weather soon deteriorated again on the West Coast with the passage of another trough on the 22nd. During the next two days a depression close to Southland moved eastward, and the associated trough of low pressure was accompanied by more general rain, still, however, missing many eastern districts.

A weak ridge of high pressure brought mainly fair weather on the 25th and 26th. On the following day a vigorous trough of low pressure was accompanied by fairly general rain, though still very light in eastern districts. For the last three days of the month pressures were high to the north and low to the south; and typical westerly conditions prevailed, with rain mainly on the West Coast and in Southland. However, some showers were reported in coastal Otago and western districts of the North Island.

J. F. GABITES, Director.

(N.Z. Met. S. Misc. Pub. 107)

New Zealand Government Railways—Schedule of Civil Engineering and Building Contracts of £10,000 or More in Value

Name of Work	Successful Tenderer	Amount of Tender Accepted
		£ s. d.
Construction of machine shop amenities, Otahuhu	C. L. Kemp Ltd., 48 Endeavour Street, Blockhouse Bay, Auckland	13,300 0 0
Cleaning and painting of Bridge No. 77 E.C.M.T.	Messrs Bay Hire Ltd., P.O. Box 2046, Tauranga ..	11,398 0 0

A. T. GANDELL, General Manager.