

CLIMATOLOGICAL TABLE—continued
Summary of the Records of Temperature, Rainfall, and Sunshine for September, 1944—continued

Station.	Height of Station above M.S.L.	Air Temperatures in Degrees (Fahrenheit).							Rainfall in Inches.				Bright Sunshine (Hours).		
		Means of		Mean of A and B.	Difference from Normal.	Absolute Maximum and Minimum.				Total Fall.	No. of Wet Days.	Difference from Normal.		Most in a Day.	
		A Max.	B Min.			Maximum.	Date.	Minimum.	Date.					Amount.	Date.
LATE RETURNS—continued															
Milford Sound, July, 1944	20	49.9	35.9	42.9	+2.0	55.2	7	28.6	6	16.39	18	..	2.98	9	..
Milford Sound, Aug., 1944	20	..	35.5	..	..	..	..	29.0	5, 13	11.30	13	..	2.64	8	..
Manorburn Dam, Aug., 1944	2,448	..	..	..	..	..	..	..	..	1.11	..	+0.01	..	..	..

NOTE.—At stations where departure from normal are in parentheses the record has been maintained for less than ten years in the case of temperatures and for less than twenty years in the case of rainfall and the normals are partly interpolated.

NOTES ON THE WEATHER FOR SEPTEMBER, 1944

General.—The chief variations of September's weather from normality were the number of cool nights and the lightness of the rainfall totals over most of the North Island. Moderate south-westerly or westerly conditions predominated, but with some windy spells. Pasture-growth was retarded, but grass was coming away better towards the close of the month. Lambing percentages are reported to be very good, and the spells of bad weather have been too brief to cause any appreciable losses. Stock generally are in excellent condition.

Rainfall.—Rain was of fairly frequent occurrence, but the majority of the totals were deficient. These were about half the average or less for North Auckland, eastern districts from Thames to Waipawa, and from the Waitaki River to Dunedin. Some excesses occurred in the high country of Taranaki and Wellington, while more conspicuous excesses occurred in and west of the main southern ranges. The Canterbury values were near normal.

Temperatures.—Except in the more eastern parts of the North Island, mean temperatures were cooler than usual, but seldom by more than 1° F. Ground frosts were fairly numerous, and on several occasions there were scattered falls of snow on the higher country.

Sunshine.—Sunshine totals were below average for the South Island and also for the Wanganui-Manawatu region. From Christchurch southward the deficiencies for the month were about twenty hours. Most of the North Island had figures a little better than average, Napier and Tauranga, with totals of 213.8 and 210.8 hours respectively, being the most outstanding.

Weather Sequence.—A slow-moving depression was giving drizzle and rain chiefly in the central provinces on the 1st, but also further north when it passed eastward on the 2nd. With an anticyclone advancing in the north conditions improved from the west. During the 4th, however, a cold front moved steadily north-eastward across New Zealand bringing a band of rain, but an improvement soon followed. A further cold front passed on the 6th and 7th accompanied by a southerly squall and a few showers, but again there was a quick clearance.

Pressure continued high to the north, while troughs advancing from the south-west on the 8th and 9th weakened as they crossed the country. These, however, resulted in west or south-west winds reaching gale force in several districts, and there were heavy rains about Westland and scattered falls elsewhere, including a little snow. A deep depression was approaching Westland on the 10th and moved east of New Zealand the next day. North-westerlies were strong at first in central districts and rain spread from the west, being rather intense for a short period about and north of the depression. Late on the 11th and 12th southerlies advanced with showery weather, some snow falling in the high country. Secondary cold fronts passed on the 13th and 14th, giving brief showers and fairly low temperatures generally. It was becoming milder on the 15th when a high-pressure wedge extended southward over New Zealand.

With a trough arriving on the 16th, winds changed from north-west to west, and later, behind a secondary, to south-west. There were showery periods and snow fell on the ranges. The centre of a low-pressure system crossing the middle of the Dominion on the night of the 17th was associated with some heavy rain, and thereafter cold southerlies became general.

An anticyclone in the northern Tasman Sea brought an improvement which gradually extended north-eastward, conditions being generally fair by the 20th. Thereafter, a series of troughs from the south-west gave occasional showers. During the 24th an anticyclone moved on to New Zealand and conditions were more settled, but in the south disturbances which rapidly weakened gave temporary deteriorations. A cold front on the 27th and 28th brought fresh south-westerlies and colder temperatures, most parts experiencing a period of rain. An anticyclone followed with fine settled weather over the last two days of the month.

M. A. F. BARNETT, Director.

Abstract of Railways Working Account

FOUR-WEEKLY PERIOD ENDED 16TH SEPTEMBER, 1944

1ST APRIL, 1944, TO 16TH SEPTEMBER, 1944

Section.	FOUR-WEEKLY PERIOD ENDED 16TH SEPTEMBER, 1944			1ST APRIL, 1944, TO 16TH SEPTEMBER, 1944		
	Revenue.	Expenditure.	Net Revenue.	Revenue.	Expenditure.	Net Revenue.
	£	£	£	£	£	£
North Island main line and branches	594,308	523,190	71,118	3,567,621	3,170,254	397,367
South Island main line and branches	320,406	320,278	128	1,881,964	1,887,410	-5,446
Nelson	1,338	2,612	-1,274	7,072	14,908	-7,836
Pictou	7,257	7,807	-550	39,890	41,218	-1,328
Total railway operation	923,309	853,887	69,422	5,496,547	5,113,790	382,757
Miscellaneous and subsidiary services	143,713	111,154	32,559	845,621	658,351	187,270
Total	1,067,022	965,041	101,981	6,342,168	5,772,141	570,027

ANALYSIS OF RAILWAY OPERATING REVENUE AND TRAFFIC

	Four-weekly Period.	Year to Date.
	£	£
Passenger	231,625	1,382,764
Parcels, luggage, and mails	32,225	186,465
Goods	633,888	3,789,502
Labour and demurrage	25,571	137,816
Total railway operating revenue	923,309	5,496,547
Passengers	No.	3,083,182
Live-stock	Tons	34,165
Timber	"	50,632
Other goods	"	598,910
Total goods	"	683,707
Road Motor Services—		
Passengers	No.	1,030,277
Revenue	£	56,996
		5,917,785
		341,768

ANALYSIS OF RAILWAY OPERATING EXPENDITURE

	Four-weekly Period.	Year to Date.
	£	£
Maintenance—		
Way and works	168,227	969,181
Signals and electrical appliances	23,682	143,577
Rolling-stock	216,697	1,311,975
Transportation—		
Locomotive	178,657	1,078,795
Traffic	239,600	1,453,439
General charges	6,974	51,252
Superannuation subsidy	20,050	105,571
Total operating expenditure	853,887	5,113,790
Net operating revenue	69,422	382,757
Total railway operating revenue	923,309	5,496,547
Capital cost of open lines as at 31st March, 1944		£ 70,999,125