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## **SUPPLEMENT**

#### TO THE

# NEW ZEALAND GAZETTE

#### OF

### THURSDAY, 16 AUGUST 1984

Published by Authority

WELLINGTON: FRIDAY, 17 AUGUST 1984

## CLIMATOLOGICAL TABLE FOR JUNE 1984

N.Z. Met. S. Pub. 107

#### THE NEW ZEALAND GAZETTE

No. 144

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#### NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for June 1984

CEIMATOL			Air Temperature in Degrees Celsius									Rainfall in Millimetres					
Station	Height of Station	Mea	ans of	Mean	Differ-	At		laximum a	nd	<u> </u>	No.	Differ-	Maxi	 ກູບກາ	Bright		
Station	Above M.S.L.	A Max.	B Min.	of A and B	ence From Normal	Maxi- mum	Date	imum Mini- mum	Date	Total Fall	of Rain Days	From	Fa Amount	Date	Sun- shine		
	Metres	 ۲	°C	°C	 °C	⊷I ℃	L	⊥ ℃	<b>.</b>	mm	L	 	 mm		Hrs		
Cape Reinga	191	16.5	10.7	13.6	+0.5	19.5	3	8.1	1	59	18	-64	21	29			
Kaitaia Airport Aupouri Forest	80 69	16.3 16.4	8.9 9.4	12.6 12.9	-0.1 -0.4	19.8 19.6	20 20	2.7 4.8	2 1	136 67	10 7	-30 -75	76 28	29 29	101		
Kaitaia Kerikeri M A F	8 79	17.3 16.5	8.1	12.7	 	19.8 21.3	20 20	2.4	2	127 119	8 15	••	61 53	29 29	••		
Kerikeri Downs	79	16.1	8.1	12.1	•••	21.0	20	2.0	2	118	15	•••	54	29			
Kerikeri Aerodrome Umawera	150	15.9	7.6	11.8	 	21.2	20	2.4	2	68 112	12 6	-65	34 66	29 29	••		
Kaikohe Waiotemarama	204 229	14.8	8.1	11.5	-0.1	20.4	20	3.6	1	82	11	-109	59	<b>2</b> 9	89		
Waipoua Forest	88	15.9	6.9	11.4	+0.0	21.0	20	0.5	27	134	16	-69	57	<u>29</u>	•••		
Dargaville Waitangi Forest	20 55	16.2 16.9	7.4 7.8	11.8 12.4	+0.0 0.1	21.5 21.5	20 20	0.0 2.0	15 2	95 76	14 11	-62 -114	28 31	29 29	72 85		
Glenbervie Forest Whangarei Airport	107 37	15.5 15.9	5.8 8.0	10.7	+0.2	21.3	20	-2.1	2	150	12	-79	56	29			
Whangarei	29	16.4	7.8	12.0 12.1	-0.1 +0.0	20.8 22.5	20 20	2.2 1.3	1 1	113 91	13 10	-68	36 37	6 6	<del>7</del> 9*		
Marsden Power Stn Pouto	3 97	15.1	7.8 9.9	12.5	•••	19.5	20	2.1 5.4	1	86 78	12 15	-107	28 42	6 29	••		
Leigh	27				••			••				••	••		••		
Warkworth Oyster Point	72 0	15.2 15.6	7.3 7.7	11.3 11.7	+0.3 +0.3	18.4 18.7	30 21	0.1 -0.5	1	97 66	12 16	-113 -67	28 23	29 6			
Woodhill Forest Riverhead Forest	30 28	15.3 15.4	7.7 6.9	11.5 11.2	+0.1 +0.5	17.7 17.9	30 4	-0.5 -1.6	1	51 89	15 12	-104	16 28	20 20			
Kumeu	32	15.5	6.8	11.2	+0.6	17.8	30	-2.3	i	75	15		21	20	••		
Whenuapai Albert Park Auckland	26 49	15.3 15.4	7.3 9.8	11.3 12.6	+0.5 +0.5	18.4 17.9	4 30	-1.5 3.0	1	73 68	16 19	-87 -73	27 22	20 20	80*		
Owairaka, Auckland Port Fitzroy	41	15.1 16.1	8.6	11.9	+0.7	18.0 19.0	30 30	1.5	1	78 135	16	-72 -100	28 29	20	••		
Little Barrier Is	2	•••			•••				••		• •	~100	••	6 	•••		
Rotoroa Is Manukau Heads	30 244	14.8 13.6	10.5 9.3	12.7 11.5		17.7 • <b>15.9</b>	4 9	7.3 5.5	1 25	62 132	11 17	 +4	16 44	20 29			
Coromandel Whangapoua Forest	43 4	15.7 16.3	8.0 6.4	11.9 11.4	+0.4	19.4 19.8	4 30	0.2	1	111	14		46	29	••		
Thames	3			11.4	+0.4	19.0		0.1	26	121	• • • •	-111 -	25	6 	••		
Tairua Forest Ngatea	3 15	15.6	7.0 4.5	10.1	••	18.2	29	0.3 -5.0	1 26	164 99	11 19	-50	69 26	20 20			
Paeroa Waihi	4 91	15.3 14.5	6.4 7.0	10.9 10.8	+1.2	18.4	30	-2.2 -2.3	26 25	63	16	-74	18	4			
Te Aroha	18	15.2	7.1	11.2	+1.1+1.0	17.9 18.4	30 30	-1.3	25	138 93	15 16	$-102 \\ -63$	52 21	20 29	93		
Katikati Waharoa	2 60	15.6 14.7	6.6 5.4	11.1 10.1	••	19.6 18.4	30 3	-1.2 -3.2	1 15	98 58	8 11	••	47 19	20 4			
Tauranga	2	15.4	7.9	11.7	+0.8	18.6	30	2.6	25	60	8	-66	27	20			
Tauranga Airport Te Puke	4 91	15.4 15.0	6.4 5.4	10.9 10.2	+0.7 +0.4	18.9 17.8	30 10	-0.7 -0.7	26 15	73 84	9	57 -95	23 39	20 29	123 124		
Rotoehu Forest Whakatane Airport	72 6	15.0 15.0	3.0 3.8	9.0 9.4	+0.4 +0.5	18.0 17.8	10	-2.4 -2.1	26 15	81 61	10 9	-63 -64	29 19	29 29	149		
Te Kaha	6	16.0	8.2	12.1		19.6	ÓL	3.0	16	116	9		29	29	••		
Port Ohope Kinleith	9 383	15.5 12.5	7.2 4.6	11.4 8.6	+0.6 +1.2	19.6 15.5	10 21	$2.3 \\ -2.0$	16 25	51 95	9 13	-69	20 41	30 30	158		
Tikitere Kawerau	338 30	12.5 15.4	5.7 4.8	9.1 10.1	+0.9 +0.4	16.0 18.9	30 10	-0.9 -1.0	25 16	114 91	10	- <del>7</del> 2	57 39	29 29			
Te Teko	8	15.9	4.8	10.4	+0.9	21.2	10	0.1	12	65	9	-74	21	29	146		
Rotorua Airport Waiotapu Forest	287 435	13.0 12.2	5.0 3.6	9.0 7.9	+0.9 +1.1	15.6 16.0	30 21	-3.1 -5.5	25 25	91 42	11 10	49 96	37 11	29 4	120		
Atiamuri Power Stn Kaingaroa Forest	253 544	11.4	2.5	7.0	+0.7	15.0	2i	-5.3	25	81	 9	-61		29 29	••		
Murupara	198	13.6	2.2	7.9	+0.6	17.0	10	-4.6	25	56	9	-61	16	30	•••		
Wairapukao Forest Taupo	437 376	12.1 12.5	0.2 3.9	6.2 8.2	+0.4 +0.9	15.9 16.2	21 30	-6.5 -3.4	25 25	73 67	9 12	-61 -47	21 16	30 20	105		
Wairakei Power Stn Wairakei Research Stn	342 402	13.0 13.2	3.9 2.9	8.5 8.1	+1.0 +1.3	17.0 16.7	30 22	-4.0 -5.7	25 25	67 65	8 11		17 15	29 30	••		
Minginui Forest	366	12.7	1.3	7.0	+0.7	16.9	10	-6.1	25	103	11	-29	33	6	•••		
Taupo Airport Waimihia Forest	407 743	12.1 9.3	3.4 3.1	7.8 6.2	+0.9 +1.4	15.7 12.1	30 21	-5.0 -3.1	1 25	50 90	6 10	-44 -80	12 20	20 29	••		
Opotiki Waimana	6 37	15.4	5.3	10.4	+0.5	18.8	10	-1.0	16	110 100	9	-17 -61	50	30	144		
Mangere Auckland	4	15.2	8.8	12.0	+0.7	17.7	30	1.0	25	79	16	-59	19	20	<del>76</del>		
Otara Auckland Auckland Airport	12	15.3 14.8	7.2 8.7	11.3 11.8	+0.5 +0.6	18.1 17.7	30 30	-1.0 1.8	1 1	77 97	16 16	-55 -31	25 22	20 4	85		
Ardmore Pukekohe	30 82	15.3	6.8	11.1	+0.7	17.4	9	-0.8	1	91	22	-55	17	20	••		
Maioro Forest	52	15.0	8.5	11.8	+0.7	17.7	9	0.0	25	138	iż	-18	50	29	••		
Hunua Maramarua Forest	38	14.6 14.8	5.7 5.5	10.2 10.2	+0.7	17.2 17.5	30 30	-2.0 -2.8	1 26	97 86	15 17	-46	24 25	29 20	••		
Te Kauwhata	32	15.1	6.1	10.6	+0.6	20.0	30	-1.2	1	60	17	-61	20	20	84		

#### **17 AUGUST**

### THE NEW ZEALAND GAZETTE

## CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for June 1984—continued

					nperature i				d Sunshine for June 1984—continued Rainfall in Millimetres						
Station	Height of Station	Mea	ns of	Mean	Differ-	At		aximum a imum	nd	Total	No. of	Differ- ence	Maxir Fa	num ll	Bright Sun- shìne
Station	Above M.S.L.	A Max.	B Min.	of A and B	ence From Normal	Maxi- mum	Date	Mini- mum	Date	Fall	Rain Days	From Normal	Amount	Date	snine
	Metres	°C	°C	°C	°C	°C	<b>.</b>	°C	L	mm	4/	mm	mm		Hrs
Huntly	34		• •	••	• •	••		••	••		•••	••	•••	••	
Taupiri Ruakura Hamilton	23 40	14.6	5.1	9.9	+0.8	17.9	30	-2.6	ï	69	15	-62	23	20	79
Whatawhata	104	14.9	56	10.2	+0.8	17.7	30	-2.1	ï	65	i5	-69	22	$\dot{20}$	74
Rukuhia Hamilton Airport	66 50	14.8 14.8	5.6 4.2	9.5	+0.8	17.5	30	-4.0	1	71	14	-61	26	20	••
Cambridge	76 27	14.3	5.9	10.1	+1.1	19.6	21	-2.1	25	59 	17	58	19	19 	
Port Taharoa Mohakatino Stn Mokau	46	 	•••		••									 20	••
Arapuni Power Stn	123 46	14.1 14.1	4.5 4.8	9.3 9.5	+0.6 +1.0	19.5 18.0	21 21	-2.5 -3.9	25 1	71 90	17 12	-78	23 32	30	
Waikeria Te Kuiti	61	14.1	5.8	10.0	+1.0	17.7	22	-1.8	25	156	20 20	-7 -52	65 30	30 29	58
Wairere	122 549	13.5 10.6	5.1 4.1	9.3 7.4	+1.2	17.2 14.5	21 7	$-3.2 \\ -4.8$	25 25	124 139	20	-52	51	30	••
Pureora Forest Mangakahu Valley	397	12.2	4.2	8.2		16.4	21	-2.2	26	97	19	• •	35	30	
Taumarunui Tokirima	171 152	••	3.0	•••	•••	 		-4.5	25	157	15	•••	58	30	••
Omata	61	•••							  1	94	i4	$-\dot{82}$	4i	29	
New Plymouth New Plymouth Airport	55 27	15.0 14.5	8.1 7.4	11.6 11.0	+1.2 +1.1	18.6 16.7	7 9	2.4 1.7	1	107	17	-43	37	29	98
North Egmont	955	9.5	2.1	5.8	•••	12.7	22	-2.3	25	386	21	••	86	29	
Te Wera Forest Lower Retaruke	180 223	••	••	••	••	 	 	· · 		••	•••	· · · ·	••		
Turangi	366	12.3	2.5	7.4	+0.3	15.8	 7	-5.4	25	96	11	-69	28	30 	115
Chateau, Mt Ruapehu Hukanui	1097 235	12.7	5.7	9.2	••	15.4	ż	-3.4	ï	139	20	-49	27	4	
Mt Bruce Res	305	12.9	3.3	8.1 8.9	$^{+1.3}_{+1.2}$	16.5 18.0	22 4	-3.4 -3.7	1 25	96 22	14	-136 -77	28 7	30 20	140
Waingawa Masterton Kopua	114 311	14.8 13.0	3.0 4.0	8.9 8.5	+1.2 $+1.2$	16.3	10	-4.0	25	17	. 8	-92	6	30	
Waipukurau	137	13.5	4.8	9.2	+1.4	15.7	4	-3.0	ż5	28	12	-69		30	122
Dannevirke Porangahau	207 8	15.5	6.0	10.9		19.2	4	-1.0	17	23	11		8	23	
Castlepoint	3 244	15.1 13.6	9.9 2.8	12.5 8.2	+2.2	19.5 18.2	10 17	5.0 - 2.5	25 2	23 20	8 8	-82 -114	8 7	29 29	 
Ngaumu Forest Tauherenikau, Alloa	43									 49	12	-120	i3		••
Waiorongomai Cape Palliser	21 10	13.9 14.9	5.1 8.4	9.5 11.7	+1,1 +1,1	17.2 19.1	9	-1.0 2.4	24 25	49	12	-88	10	29	•••
East Cape	17	15.8	7.7	11.8	+0.1	19.7	10	2.1	26	202	13	+54	98	6	••
Ruatoria Mangatu Forest	61 182	14.7	• •	• • • •	• • • •	18.2	ii	••	•••	60	ii	-62	15	5	 
Manutuke Gisborne	9	15.9	3.4	9.7	+0.1	20.9 20.2	10 10	-2.0 -1.4	15 15	165 137	10 10	+58 +16	115 87	6 6	153
Gisborne Airport Onepoto, Waikaremoana	4 643	15.7	4.5	10.1	+0.3	20.2	10	-1.4							
Wharerata Forest	439	••	• •	••	••	••		••	••	210	• •	•••	135	6	 
Esk Forest Ngamatea	427 885	9.0	1.0	5.0	•••	14.3	30	-7.1	25	21	13		6	30	
Kaweka Forest Napier Airport	414 2	13.0 15.6	6.2 4.1	9.6 9.9	$^{+1.3}_{+0.6}$	18.9 23.1	10 10	$-0.2 \\ -3.7$	25 25	25 6	8 6	-117 -94	10 3	6 6	
Napier	2	16.0	4.7	10.4	+0.9	22.0	10	-2.7	25	8 5	4 6	-86	52	6 6	154
Hastings Whakatu	16 6	16.1 15.6	3.3 3.0	9.7 9.3		21.0 21.7	10 10	-3.5 -3.5	25 15	9	6	•••	4	6	
Gwavas Forest	335	13.6	2.3	8.0	+1.3	17.9	10 10	-3.7 -4.5	25 25	13 10	8 9	-106 -91	3 2	6 30	
Makaretu Mohaka Forest	335 286	14.1 14.2	3.0 4.3	8.6 9.3	+1.1 +0.9	17.8 18.2	9	-2.2	25	75	8	95	41	6	
Frasertown, Wairoa	8	15.6	3.9	9.8	+0.1 +0.3	20.0 20.1	22 22	-1.0 -1.5	15 25	88 92	11 6	$-58 \\ -38$	51 68	6 6	141
Wairoa Kapiti Is	20 16	15.6	4.3	10.0											
Paraparaumu Airport	7	14.3 14.2	6.8 6.6	10.6 10.4	+1.6 +1.5	16.6 17.3	20 4	-0.8 -1.6	25 1	38 57	11 15	$-62 \\ -26$	10 21	4 4	104
Flockhouse Bulls Ohakea	48	14.2	7.2	10.4	+1.5 $+1.6$	17.0	21	2.0	1	51	15	-34	11	30	71
Wharite Peak	914 15	14.1	5.7	9.9	+1.7	17.1		-3.0	25	94	i3	+13	33		78
Kairanga Palmerston N Palmerston N Airport	45	14.0				17.0	4			52 87	14 16	-30 + 0	14 42	4 4	 64
Palmerston N D S I R Tiritea	34 100	14.0 13.2	7.2 7.6	10.6 10.4	+1.8	16.8 15.8	4 4	-0.8 1.3	25 25	107	15		49	4	04
Waitarere Forest	3	14.3	6.2	10.3	+1.6	16.2	13	-3.0	24 30	54 85	14 15	$-32 \\ -20$	11 18	30 26	 65
Levin Titahi Bay	46 31	13.8 14.4	6.5 7.5	10.2 11.0	+1.2	15.9 16.8	30 7	0.1 0.5	24	45	9		12	4	
Avalon, Lower Hutt	15	14.3	6.8	10.6	+1.6	16.4	9	0.3 2.4	24 25	38 39	9	-107	9 12	3 29	••
Highland Pk Wgtn Kelburn, Wellington	120 125	12.7 13.5	7.7 7.9	10.2 10.7	+1.6	15.9 16.9	9	3.6	1	38	10	-101	12	29	123
Somes Is	43	13.7	7.9	10.8	+1.4	16.5 17.1	9 9	3.0 1.2	24 24	22 36	7 8	-117 -111	6 10	2 4	 
Gracefield Lower Hutt Wainuiomata	34 82	14.3 13.7	7.7 6.2	11.0 10.0	+1.6 +1.7	16.7	9	-0.2	24	37	9	-155	8	29	
Wellington Airport	6	14.3	8.7	11.5	+1.7	18.2	9	3.8	23	25	10	-91	9	29	••

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#### THE NEW ZEALAND GAZETTE

No. 144

## CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for June 1984-continued

<u></u>					mperature				ijun, ui		Rainfall in Millimetres						
Station	Height of Station	Ме	ans of	Mean	Differ-	A	bsolute M Min	laximum a imum	ind		No.	Differ-	Maxir Fa	num	Bright Sun-		
	Above M.S.L.	A Max.	B Min.	of A and B	ence From Normal	Maxi- mum	Date	Mini- mum	Date	Total Fall	of Rain Days	ence From Normai	Amount	Date	shine		
	Metres	°C	°C	°C	°C	°C		°C	•	mm			mm		Hrs		
Rimutaka Forest Kaitoke	37 223	14.3 13.2	5.5	9.9		17.1	9	-0.8	24	40	11	. : :	18	30			
Wallaceville	56	14.3	4.0 4.2	8.6 9.3	+1.5 +1.4	16.0 16.3	777	-4.7 -4.0	25 25	77 43	18 13	-142 -91	19	30 30	99 111		
Cape Egmont	8	14.9	9.8	12.4	+1.6	17.0	21	2.5	25	86	20	-56	33	29			
Stratford Mtn House Stratford Dem Farm	846 311	8.2 12.8	1.2 4.8	4.7 8.8	-0.1 +0.9	13.9 15.7	- 30	-4.5 -1.9	25 25	324 131	13 12	-318 -71	129 35	29 29	108		
Kapuni	173			••													
Manaia Dem Farm Normanby	98 122	14.2 13.7	7.4 7.0	10.8 10.4	+1.4 +2.1	18.7 16.7	21 21	-1.4 0.4	25 25	37 43	15 20	-92	13 13	29 29	92		
Patea	43							•••			20	•••	15	29	•••		
Ohakune Junction Karioi	629 648	10.7 10.5	3.1	6.9	+1.4	15.3 16.0	21 21	-3.2	25	76 71	11	-73	40	30	••		
Waiouru	823	9.8	2.3	6.1	+1.6	15.4	21	-5.4	25	53	12 13	-47 -54	33 17	10 30	 		
Waiouru Military Camp Ahu Ahu Valley	823 85	9.5 14.4	1.9 4.9	5.7 9.7	+1.4	15.1 19.7	21	-6.5	25	57	18	-50	20	30			
Taihape	433	12.4	2.5	7.5	+1.3	19.7	10 21	-2.0 -5.8	25 25	49 40	15 21	-47	19 10	30 30	••		
Kahui, Taihape	518	140	4.7 7.8					-3.6	25	29	10	-58	12	30	•••		
Wanganui Wanganui Airport	22 9	14.8 15.1	7.8	11.3 11.4	+1.6	18.0 18.1	21 21	2.9 0.6	1 24	37 41	10 10	-50 -49	11 12	30 30	86		
Farewell Spit	3	14.7	6.5	10.6	+1.2	17.2	9	1.0	15	85	12	-27	48	29			
Totaranui Westport Airport	10	14.5 13.6	5.8 6.5	10.2 10.1	+1.3	18.5 16.0	9 9	0.7 2.4	10 25	167 194	11	+72 +8	107 40	29 29	••		
Cobb Dam	823									••		+0 	40	29	74		
Arapito Lake Rotoroa	. 20 443	13.6 10.1	5.6 2.0	9.6 6.1	••	16.4 12.9	30 9	1.2 -4.5	25 24	208	16	••	37	30	57		
Lake Rotoiti	634	9.8	0.0	4.9	+1.5	14.5	7	-4.5 -6.0	24	114 99	21	-21	12 37	9 29	•••		
Hokitika Airport Punakaiki	39 4	12.6	4.8 8.6	8.7	+1.1	15.4	9	0.4	24	265	18	+60	44	29 30	59		
Reefton	198	14.0 11.0	a.o 3.6	11.3 7.3	+2.5	16.9 15.5	9 9	5.3 -2.8	7 1	370 152	18 20	_9 _9	157 34	30 30	••		
Barrytown	30	13.9	8.3	11.1		17.0	29	5.5	7	295	17	+104	85	30	••		
Totara Flat Greymouth	77 4	<b>H1.9</b> 12.6	3.7 6.0	7.8 9.3	+2.1 +0.9	16.1	9	-2.6 3.0	1 24	176 221	18 21	+ <b>18</b> +34	37 48	3 <del>0</del> 4	55		
Otira Substation	383	10.0	2.8	6.4	+1.7	12.9	26	-2.5	24	457	21	+90	95	8	55		
Springs Junction Pukekura	421 86	9.3	••	••	••	12.3	9	••	••	201	19	+11	37	30			
Hari Hari	45	12.8	2.0	7.4	+1.2	15.5	26	-4.1	24	338	16	+102	<del>7</del> 2	ż5	•••		
Okarito Franz Josef	10 155	12.9 12.1	4.5 4.7	8.7 8.4	· • •	15.2	9 21	0.1	24	290	15	••	57	30	• • •		
Fox Glacier	155	12.1	3.7	0.4 7.9	+1.2	15.3 14.5	21	1.5 0.8	24 1	427 351	15 16	+70	78 53	25 25	82		
Milford Sound	3	9.9	2.2	6.1	+0.4	14.1	8	-2.0	25	445	21	+31	84	-9			
Puysegur Point Stephens Is	43 187	12.9	9.3	nii	+1.6	15.2	iż	5.3	24		ii	-19	ii	3	••		
Riwaka Motueka	8	14.1	2.4	8.3	+0.7	17.6	30	-2.2	25	160	8	+37	142	29	136		
Tapawera Crail Bay Pelorus Sd	146 13	12.6	0.8	6.7	••	17.6	9	-6.2	25	65 85	14	••	43	29	••		
Appleby	17	14.0	3.9	9.0	+1.1	18.6	9	-1.7	25	62	8	-19	<b>5</b> i	29	••		
Nelson Airport Rai Valley	2 79	13.6 14.1	2.2 1.9	7.9 8.0	+0.7 +1.3	18.2 19.2	9 9	-2.8 -4.1	25 25	53	7 7	-26	45	29	133		
Moutere Hills	110	13.3	6.3	9.8	+1.2	17.3	9	1.3	25	117 66	10	-37 -24	76 55	29 29	••		
Blenheim Airport	27	14.5	2.7	8.6	+1.3	20.2	. 9	-2.8	16	32	6	-29	25	29			
Brancott Valley Blenheim	64 4	14.6 15.0	2.5 2.7	8.6 8.9	+1.2	20.2 20.7	9 9	-3.7 -2.7	16 16	32 36	7	-21	27 30	29 29	143		
Wither Hills Blenheim	32	14.8	3.4	9.1	+1.3	20.5	10	-2.5	16	30	5	-25	25	29			
Waihopai Power Stn Vernon Lagoon	262 2	13.4 14.9	1.8 2.2	7.6 8.6	+1.2	19.0 22.0	9 9	-4.8 -4.4	25 16	50 22	8 4	-23	43 19	29 29	••		
Lake Grassmere	2	14.1	3.5	8.8	+0.8	21.5	9	-1.2	16	18	6	-33	13	29	102		
Cape Campbell Boyle River Lodge	3 600	13.9	7.8	10.9	+1.5	18.6	9	4.7	17	15	7	-45	10	29	••		
Hanmer Forest	387	12.7	0.0	6.4	+2.2	18.0		-5.5	 1	18	iö	-87	io	·:- 5	107		
Molesworth Kaikoura Flats	893 24	••	• •	••	••	••	••	••	••	28	5	-26	17	29	••		
Kaikoura	108	13.1	6.9	10.0	+1.7	19.7	 9	2.0	24	i3	6	-55	ii	ż3	145		
Arthurs Pass Culverden	738 174	8.0 12.9	0.5	4.3	••	12.0	18	-6.0	24	332	17	+47	64	9			
Balmoral Forest	198		-0.9	6.0 • •	••	19.0	9 	-6.4	24	4	3	•••	2	30 	••		
Waiau	137	13.8	0.3	7.1	••	19.6	9	-6.2	2	28	5		25	30			
Cheviot The Hermitage Mt Cook	85 765	13.7 10.2	0.7 0.3	7.2 5.3	+2.4	20.2 14.4	9 18	-4.9 -5.5	2 25	9 252	6 13	+11	2 61	23 8	109 72		
Mt John	1027	8.8	0.7	4.8	+2.3	13.2	7	-5.0	24	14	6	-25	6	8	12		
Craigieburn Forest Lake Coleridge	914 364	9.3 11.9	-0.1 0.3	4.6 6.1	+2.1 +1.6	14.8 16.7	18 18	-6.2 -5.6	24 1	89 37	13 8	-12 -31	24 16	9	••		
Highbank Power Stn	336	12.5	3.6	8.1	+1.7	17.5	18	-1.7	24	9	7	-55	5	9 5	136		
Hororata Substation Winchmore	192 160	13.4 13.0	0.5 1.6	7.0 7.3	+2.0 +1.9	19.7 18.1	18	-5.8	24	9 7	9	-49	2	23	126		
Peel Forest	274	12.9	-0.2	6.4	+1.9	18.6	9 8	-3.7 -5.8	24 24	10	4 12	-46 -39	4 7	5 5	••		
					•••		-			- •		27	,	5	••		

### THE NEW ZEALAND GAZETTE

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#### CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for June 1984-continued

CLIMATOLOGIA			<u>ummur)</u>		nperature i		d Sunshine for June 1984—continued Rainfall in Millimetres								
Station	Height of Station	Mea	ns of	Mean	Differ-	AI	osołute M Min	aximum a imum	nd	Total	No. of	Differ- ence	Maxir Fa	num I)	Bright Sun-
	Above M.S.L.	A Max.	B Min.		Maxi- mum	Date	Mini- mum	Date	Fall	Rain Days	From Normal	Amount	Date	shine	
·	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
Ashburton	101	13.3	1.8	7.6	+1.6	19.0	9 18	-4.1 -2.9	24 2	7 8	4 6	-47 -41	4	6 5	126
Waipara Ashley Forest	64 107	13.9 13.1	2.9 3.9	8.4 8.5	+2.1 +1.6	19.0 19.5	18	-1.5	24	27	5	-28	20	5	127
Rangiora	46	13.3	1.2	7.3	+1.3	19.9	11	-5.1 -2.3	24 24	11 9	8 6	-37 -52	5 4	5 5	••
Darfield Evrewell Forest	195 158	13.4 13.4	2.9 1.2	8.2 7.3	+2.4 +1.8	18.6 19.0	9 18	-5.0	24	11	5	-45	5	23	•••
Christchurch Airport	30	13.2	1.0	7.1	+1.1	19.7	9	-4.3	25	9 9	8 6	-43	4 5	29 29	141
Templeton Thristchurch	46 7	13.1 13.5	2.1 1.9	7.6 7.7	+1.7 +1.2	19.0 20.2	9 9	-2.9 -2.9	24 24	15	7	-44	6	29	•••
Bromley Christchurch	9	12.7	3.0	7.9	+0.9	20.3	9	-1.8	24	15	8 7	-40 -49	6 8	29 29	••
At Pleasant	137	13.7 12.8	6.6 1.5	10.2 7.2	+2.0 +1.2	19.5 19.9	9 18	1.0 - 3.3	24 16	19 13	8	-49 -46	o 4	29	128
Lincoln Duail Island	75	• •									8	• •			••
karoa	3 683	14.3 9.2	0.7 -0.9	7.5 4.2	+0.3 +1.4	20.0 14.4	12 18	$-3.0 \\ -8.0$	23 24	14 18	8 7	-32	3 7	28 8	••
_ake Tekapo _ake Pukaki	556	9.2 9.1	-0.9	4.5	+1.7	16.0	18	-4.7	22	25	9	-20	9	8	
fairlie	304 457	12.4 8.9	-2.1 -3.5	5.2 2.7	+1.0	17.2 16.0	11 18	-8.3 -9.5	25 24	10 26	5 11	-16	4 9	5 . 9	•••
ſwizel kawai	457 70	8.9 12.6	-3.5	6.6	+1.4	18.0	11	-6.5	24	29	5	-4	18	5	
Geraldine	119	13.2 12.7	0.5 0.1	6.9 6.4	+1.7 +1.4	18.9 19.9	9 16	-5.5 -4.8	24 24	8 9	5 8	$-35 \\ -32$	4 5	5 5	•••
Drari Estate Femuka	81 24	12.7	0.1	6.7	+1.0	19.3	11	-4.9	24	8	5	-28	4	5	
Fimaru Airport	26	12.6	0.1 4.2	6.4 8.3	+1.0 +1.7	18.8 18.6	11 []	-4.8 -1.6	24 24	10 22	4 5	-23 -11	7 16	5 5	••
Adair Fimaru	85 17	12.4 12.0	2.7	7.4	+1.5	18.2	9	-3.5	24	17	5	-17	11	5	119
Waimate	61	13.3	2.3	7.8	+1.1	19.4 16.3	12	-4.1 -4.5	24 24	17 8	5 7	$-22 \\ -20$	9 4	5 5	••
Aviemore Kurow	241 207	11.2	2.0	6.6 	•••		0 					• •			
Damaru Airport	30	12.4	2.4	7.4	+1.5	18.8	11	-2.8	24	11	5	-24	5	4	121
Knobs Flat Fara Hills Omarama	360 488	9.7	-1.4	4.2	+1.9	14.5	12	-8.4	24	iö	'n	-25	3	8	132
Lake Hawea	350	10.2	0.9	5.6	+1.4	14.2	18	-4.6	25	25	9	-32	8 16	8 25	• •
Wanaka	296 277	10.7	-0.1 0.7	5.3 5.6	+1.6	15.7 15.5	18	-5.6 -5.3	24 24	36 25	8	-15	10	8	••
Queensberry Bendigo	200	11.6	-0.4	5.6		17.0	18	-6.8	24	15	7 5	••	7 6	8 8	••
Naseby Windsor	607 88	10.1	-1.5	4.3	 	15.3	7	-8.3	24	13	, .	••		• • •	•••
Oamaru	5										3	-18	· · · 6	30	 89
Ranfurly Harbort Forest	427 61	10.9 13.3	-3.0 1.3	4.0 7.3	+1.6 +1.6	15.1 19.0	12 9	-9.7 -4.5	24 24	8 24	4	-18 -17	14	5	
Herbert Forest Palmerston	21	13.6	0.1	6.9	+1.6	17.9	ń	-7.6	24	18	3	-28	10	30	133
Cherry Farm Hospital	6		•••	••	••	••	•••	••	••	••	••	••	••		••
Taiaroa Head Invermay, Taieri	72 30	12.0	1.7	6.9	+1.5	17.0	6	-6.5	24	38	8	-39	24	30	117
Berwick Forest	18	12.4	0.8 0.6	6.6 6.5	+1.3 +1.4	17.7 17.3	25 25	-5.7 -7.0	24 24	30 30	10 11	34 21	12 18	30 30	122
Dunedin Airport Musselburgh Dunedin	12	12.3 11.7	4.2	8.0	+1.1	17.0	8	-1.7	25	36	9	-35	23	30	117
Te Anau	215	10.8	3.4 4.7	7.1 6.7	+2.5 +2.5	15.1 12.5	7 7	-4.4 -2.0	24 24	82 394	12 21	-20 +115	20 69	25 8	86
West Arm, Manapouri Borland Burn	232 183	8.6								• • •					
Queenstown	329 349	11.2 10.5	2.3 0.7	6.8 5.6	$^{+2.5}_{+2.3}$	16.2 15.1	7 12	-3.0 -5.6	24 24	64 45	10	-6 -9	25 22	25 25	88
Queenstown Airport Otama	183				12.5						i		 6		
Cromwell Sub Stn	213 213	11.2 11.3	-0.7 -1.3	5.3 5.0	+1.7	17.1 17.8	12 12	-6.5 -8.9	25 24	16 17	7	-18 -11	6 6	25 25	118
Cromwell Northburn	210	11.4	0.2	5.8		16.7	12	-6.7	24	16	8		6	25	
Lauder	370 160	10.7 10.9	$-1.1 \\ 0.2$	4.8 5.6	 	16.2 17.6	17 12	-9.0 -6.7	24 25	14 23	8 9		8 8	30 25	••
Clyde Dam Ophir	305	10.9	0.2	5.0	••						· ·	••			
Moa Creek	427 171	10.7	-0.7	5.0		17.9	i2	-7.8	24	24	ii	 	 9	25	•••
Clyde Alexandra	141	11.0	-0.4	5.3	· • • •	17.8	17	-7.5	23	26	10		8	25	104
Roxburgh Power Stn	110	11.3	1.4	6.4	+1.5	17.5	12	-4.0	24	11	7	-21	5	30	
Ettrick Deep Stream	83 396	••		••	•••	••	•••	• •	•••	•••		· · :2			•••
Beaumont	46	11.4	1.1	6.3		17.0	25 6	-4.7 -5.6	24 24	45 35	13 14	-47 -52	16 16	30 30	• •
Mahinerangi Dam Tapanui	396 226	9.9 10.8	1.2 2.7	5.6 6.8	+1.6 +1.6	14.3 15.1	25	-3.0 -2.5	24	41	15	-49	21	30	• •
Taieri Mouth	15	11.9	2.7	7.3	+1.1	15.6	8	-4.6	24	30	8	-33	12	30 30	• •
Tuatapere	27 55	11.9 11.2	2.4 1.5	7.2 6.4	+1.0	16.4 15.5	18 25	-1.9 -5.2	28 24	74 68	19 12	47	19 12	30	46
Otautau Winton	44	11.2	1.9	6.6	+1.0	15.5	25	-4.4	24	43	15	-37	12	30	100
Gore	123 46	10.4 11.0	2.6 2.8	6.5 6,9	+1.8 +1.4	14.7 15.0	8 25	-4.7 -5.7	24 24	36 43	17 17	-41 -50	7 9	30 22	100
Hokonui Forest															

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#### THE NEW ZEALAND GAZETTE

				Air Te	mperature	in Degrees									
Station	Height of Station Above	Мс	cans of	Mcan of A	Differ- encc	A	bsolute M Min	laximum a imum	nd	Total	No, of Rain Days	Differ- ence	Maxin Fa		Bright Sun-
	M.S.L.	A Max.	B Min.	and B	From Normal	Maxi- mum	Date	Mini- mum	Date	Fall		From Normal	Amount	Date	shine
	Metres	°C	°C	°C	°C	°C		°C		mm		mm	mm –		Hrs
Invercargill Airport Tiwai Point, Bluff Stewart Is Milton	0 5 3 18	11.1 10.8 11.1 11.1	2.2 4.8 5.0 1.4	6.7 7.8 8.1 6.3	+1.3 +1.2 +1.9 +1.2	14.4 13.4 13.8 15.2	25 25 8 9	-5.0 -3.3 -3.2 -7.6	24 24 24 24	43 38 128 28	19 19 30 11	-60 -75 -3 -45	8 8 30 15	9 9 10 30	70 
Clinton School Finegand Balclutha Owaka Nugget Point	120 6 5 129	10.7 11.2 11.4 10.8	2.2 2.6 1.6 4.9	6.5 6.9 6.5 7.9	+1.5 +0.7 +1.6	15.7 15.0 14.6 14.1	11 9 6 6	-6.2 -5.0 -7.4 -1.4	24 25 24 24	24 16 30 32	18 10 17 16	-46 -63 -54	7 4 6 6	22 4 9	100 
Tautuku Nadi Airport Fiji Rarotonga Airport Totokoitu, Rarotonga	40 19 7 9	11.5 29.3 25.4	4.1 20.0 19.4	7.8 24.7 22.4	+1.2 +0.4 -0.2	15.8 31.4 27.4	25 10 8	-3.7 16.7 16.0	24 26 24	52 63 36	15 6 17	90 11 77	12 19 11	19 10 16 14	173 144
Raoul Is Campbell Is Waitangi, Chatham Is Scott Base Antarctica	38 15 44	19.7 8.1 11.5 -20.1	15.5 3.8 6.9 -29.8	17.6 6.0 9.2 -25.0	+0.1 +1.2 +0.6 +1.3	21.6 10.0 13.9 -8.2	7 17 5 10	11.5 -2.5 0.3 -41.0	19 23 24 20	191 93 25	17 30 17	+35 +27 -72	103 14 6	5 11 30	84 1 83
				LATE	RETUR	NS AND	O CORF	ECTION	IS				••	••	••
Wairakei Research Stn 05/1984 Huntly 05/1984 Whatawhata 05/1984 Hukanui 05/1984 Wharite Peak 04/1984 Ahu Ahu Valley 05/1984 Kahui, Taihape 05/1984 Hari Hari 05/1984 Waihopai Power Stn	402 34 104 235 914 85 518 45	14.5 16.6 15.8 13.2 10.0 15.0 12.6 13.8	3.1 8.2 6.5 5.8 5.7 5.4 4.7 2.1	8.8 12.4 11.2 9.5 7.9 10.2 8.7 8.0	-0.3 -0.6 -0.5 -0.2 -0.7	18.3 21.0 19.9 17.8 14.5 19.6 19.1 19.6	12 7 9 14 9 9	-4.3 2.0 -3.7 -1.0 0.5 -1.1 -1.8 -3.7	22 17 21 17 9 21 21 21 22	79 72 115 185 96 80 71 174	10 13 16 20 15 13 17	-26 -44 -7 -92 -18 -143	24 27 55 43 15 18 19 50	24 9 25 25 2 24 24 8	106  
05/1984 Craigieburn Forest 05/1984 Quail Island 03/1984 Quail Island 04/1984 Quail Island 05/1984 Kurow 04/1984 Kurow 05/1984 Windsor 05/1984 Windsor 05/1984 Perbert Forest 05/1984 Rarotonga Airport 05/1984 Totokoitu, Rarotonga	262 914 75 75 207 207 88 88 5 61 7	13.4 9.6 19.7 17.1 12.5 18.7 11.9 18.4 11.6 12.5 12.7 26.5	2.5 -1.0 13.1  6.5 2.1 5.1 2.5 4.3 1.8 20.4	8.0 4.3 16.4 12.6 7.0 11.8 7.1 8.4 7.3 23.5	-1.0 -0.8   -0.7 -0.2	20.2 19.9 25.9 24.3 20.0 23.9 17.7 25.1 17.6 17.8 18.5 28.7	5 14 2 7 13 12 14 7 14 4 3	-2.4 -5.0 7.5 -4.3 -0.6 -5.0 -2.7 -4.2 17.4	21 21 23  29 21 11 28 23 23 23 28	45 51 68 14 67 10 38 14 56 62 87 143		-46 -107    +37 -40	19 18 17 6 19 4 13 10 26 30 49 96	8 8 17 8 24 28 5 28 24 24 24 24 6	··· ··· ··· ··· 162
05/1984 Raoul Is 03/1984 Raoul Is 04/1984 Campbell Is 04/1984 Campbell Is 05/1984	9 38 38 15 15	27.4 25.0 23.7 9.7 7.9	20.4 21.1 18.3 5.0 3.8	23.9 23.1 21.0 7.4 5.9	+0.5 +1.0 +0.4 +0.1 +0.0	31.7 26.4 26.5 14.5 10.5	21 15 13 18 4	17.3 18.4 15.1 -0.4 -2.0	12 5 26 29 30	228 121 133 149 102	12 22 22 29 30	-22 +11 +31 -32	151 26 41 16 14	6 8 11 19 14	113 165 37 12

The "normal" refers to the present site of the instruments. Standard period for normals is 1951-1980. No normals are available for stations \*Indicates that the sunshine recorder is not located at the station but is in the near vicinity.
A rainday is a day with rainfall equal to or greater than 0.1 mm.
Where the extremes of temperature and rainfall have occurred more than once during the month, the date of the first occurrence is given.

#### THE WEATHER IN NEW ZEALAND IN JUNE 1984

General-June was very mild, and dry in most areas. The north of the country had its lowest frequency of strong winds for June since 1966 but strong winds were a little more frequent than usual in the south. The south of the country recorded the highest frequency of north-westerly winds since 1959, with just over half of all winds from the north-westerly quarter. Gale force winds caused damage to some agricultural buildings and caused widespread power cuts in the Gisborne area on the 6th.

Pressures were very high over the whole country this month.

Farmers generally reported that the dry, mild weather was excellent for stock health, and most crops. Some farms in the south of the North Island had problems with outbreaks of porina caterpillar infestation of pasture.

Rainfall—With the exception of the East Cape—Gisborne region and the north-west Nelson, Westland and Fiordland regions, the whole country was drier than usual for June.

Hawkes Bay and Wairarapa were exceptionally dry, with many stations reporting less than 10 percent of normal rainfall. Napier recorded 8 mm of rain, the least for June since 1933, Bagshot Station (N.E. of Masterton) had its driest June since 1880 with 25 mm recorded, Ongaonga had 8 mm, the least for any month since the station opened in 1969 and Waipukurau also had 8 mm, the lowest June total since 1940, and 2nd lowest since opening in 1906.

In contrast the area between East Cape and Wairoa was wet, mainly due to heavy rainfalls on the 6th and 7th, the result of a deep depression off East Cape. Among stations recording heavy falls on the 6th were: Te Puia Springs (197 mm), Ruangarehu (190 mm), Waiwhero (181 mm), and Te Karaka (160 mm). Estimated return S and 10 periods for falls in coastal areas were mostly between 5 and 10 years, but were in the vicinity of 20 years for inland areas. Many local roads were closed by slips and there were widespread disruptions to communications.

The north-west Nelson region was very dry until the 29th, when falls of between 90 mm and 120 mm brought the average rainfall for the month to normal or above normal.

Temperatures-Mean temperatures indicate that, for much of the country, this was the mildest June since 1971.

Temperatures were above normal everywhere. The north Auckland Peninsula, the east of the North Island and Fiordland were up to  $1^{\circ}$ C warmer than usual, while the rest of the country was between  $1.0^{\circ}$ C and  $2.5^{\circ}$ C warmer than normal.

The period between the 8th and 12th was particularly mild, with mean temperatures between 6° and 8°C above average in many areas. Stations in eastern areas recorded maxima above 20°C during this period, including, on the 9th, 22.0°C at Vernon Lagoons, 21.5°C at Lake Grassmere, 20.2°C at Christchurch Gardens and 20.7°C at Blenheim. Napier reached 22.0°C on the 10th.

Sunshine-Eastern areas from Gisborne to Dunedin were sunnier than normal this month, while northern and western areas of both Islands were very cloudy.

Both Hokitika, with 59 hours and Ohakea, with 70 hours, had their lowest totals for June since the stations began recording in 1935 and 1964 respectively (Hokitika had a site change in 1964).

Among those places recording the greatest departure this month were: Gisborne Airport (+29 hours), Dunedin Airport (+25 hours), Christchurch Airport (+21 hours), Hokitika (-56 hours), Ohakea (-41 hours), and Kaitaia (-26 hours).

#### THE WEATHER SEQUENCE, JUNE 1984

1-7 June

A large anticyclone, centred to the west of New Zealand, covered the country on the 1st. The weather was cool and fine, apart from isolated showers in some western areas. Cool, fine weather continued until the 3rd, when a shallow trough developed between the anticyclone, now centred east of New Zealand, and a second centred over Australia. A front within this trough brought rain to Westland, Southland and central New Zealand.

Temperatures were mild. The trough developed over New Zealand and rain become widespread on the 4th and 5th, with heavy rain in some eastern areas on the 6th. A depression, which had developed off Norfolk Island on the 5th, moved southwards during the 6th and brought rain to the north of the North Island. This lay off East Cape by the 7th, with rain confined to the East Cape-Gisborne area. 8-14 June

By the 8th the depression lay to the east and a south-westerly flow covered the country. A front within this flow brought rain to the south and west of the South Island on the 8th and 9th. The flow became north-westerly during the 9th with temperatures becoming mild, especially in eastern districts. A belt of high pressure becoming mild, especially in eastern districts. A bert of nig pressure lay over the North Island on the 10th, bringing a westerly flow onto the country. Rain fell in south-western areas between the 10th and 12th as fronts passed within the flow but temperatures remained mild. By the 13th the flow had became south-westerly. A front crossed the country during the 13th and 14th, but brought only light showers to isolated areas.

15-21 June

An anticyclone lay centred in the Tasman Sea on the 15th and as this crossed the country during the 3 days from the 15th to the 17th most districts had mild, settled weather, although some rain fell in some western and southern areas of the South Island as fronts moved eastwards along the southern edge of the anticyclone. By the 18th a belt of high pressure covered the north of the country, with a westerly flow to the south. A front within this flow brought light rain to some western areas of both Islands.

A depression developed and deepened rapidly near Lord Howe Island during the 19th and as this moved eastward heavy rain fell over the north of the North Island on the 19th, spreading south over the North Island to the north of the South Island on the 20th. Rain remained widespread but became lighter on the 21st, with the depression remaining to the west.

#### 22-30 June

There was a general clearance on the 22nd as the depression weakened and crossed the country. A ridge extended south-eastwards from an anticyclone over Australia onto the South Island during the 23rd, bringing fine weather to most areas, although rain fell in some eastern areas of both Islands. By the 24th an anticyclone had developed over the country. The weather was generally fine but cool. The anticyclone intensified during the 25th, bringing generally fine, mild weather, although a cold front passing to the south brought heavy rain to western and some southern areas. Light showers fell in isolated areas of both Islands on the 26th and 27th as this front slowly crossed the country. A depression began to form near Lord Howe Island during the 27th and by the 28th lay to the west of New Zealand, Widespread, and in some areas heavy, rain fell during the 29th and 30th as the depression moved eastward.

**PROPOSED DISCONTINUATION OF THE WEATHER SEQUENCE** 

Daily weather information, including maps, is now available through various media. The Meteorological Service is therefore proposing to discontinue publishing the Weather Sequence as above, though the Climatological Table and written summary will continue in the Supplement to the *New Zealand Gazette*.

People having a special need for the Weather Sequence as currently published are invited to write to:

The Director,

New Zealand Meteorological Service, P.O. Box 722,

Wellington. by 30 September 1984.

J. S. HICKMAN, Director.

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