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SUPPLEMENT

TO THE

NEW ZEALAND GAZETTE

OF

THURSDAY, 10 DECEMBER 1981

Published by Authority

WELLINGTON: FRIDAY, 11 DECEMBER 1981

CLIMATOLOGICAL TABLE

FOR OCTOBER 1981

3765

THE NEW ZEALAND GAZETTE

No. 147

CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for October 1981

			Summe					una Sur 	T						
	Height			Air Tei	mperature	in Degrees	s Celsius				Rain	fall in Milli	metres]
Station	of Station Above M.S.L.	Me	ans of	Mean of A	Differ- ence	A1		Aaximum a nimum	and	Total	No. of	Differ- ence	Maxi Fa		Bright Sun- shine
	M.S.L.	A Max.	B Min.	and B	From Normal	Maxi- mum	Date	Mini- mum	Date	Fall	Rain Days	From Normal	Amount	Date	
	Metres	°c	°C	'°c	°c	'. <u>.</u>	<u> </u>	°c	1	mm	L	mm	<u> </u> mm		Hrs
Cape Reinga Kaitaia Airport	191 80	17.1 17.7	10.8 9.7	14.0 13.7	+0.0	20.2	4	8.2	13	35	11	- 36	9	23	
Aupouri Forest	69	17.1	10.9	14.0	-0.8 -0.8	20.1 19.2	23 23	5.4 7.4	11 8	73 64	12 8	- 39 - 69	31 21	23 23	219
Kaitaia Kerikeri Aerodrome	8	18.6	9.1	13.9		21.6	22	4.8	11	62	9		24	23	••
Umawera	150 50	18.1 17.9	8.2 8.5	13.2 13.2	••	22.1 21.0	3 23	4.2 4.1	9 10	74 66	9 12	••	43 24	23 23	••
Kaikohe	204	16.6	8.9	12.8	-0.8	19.8	3	5.3	11	65	10	••	34	23	187
Waiotemarama Waipoua Forest	229 88	••	••	••	••	•••	•••	••	• ••	••	••	••	••	••	••
Dargaville	20	17.4	8.7	13.1	-0.6	21.7	23	4.0	10	55	iö	- 54	17	23	169
Waitangi Forest Glenbervie Forest	55 107	18.9 17.7	9.1 5.6	14.0 11.7	-0.8 -1.2	21.6 22.0	2 3	4.9 0.6	9 30	51 62	9 10	-46 -75	27 28	23 23	215
Whangarei Airport	37	18.2	9.0	13.6	-1.0	22.8	3	5.3	. 8	47	10	-62	17	23	••
Whangarei Marsden Power Station	29 3	18.4 19.2	8.4 9.4	13.4 14.3	-1.1 -0.3	23.2 23.8	3	4.8 5.2	30 8	58	9	••	23	23	207*
Pouto	97	16.6	10.2	13.4	-0.3	23.8 21.3	23	5.2 6.9	29	55 66	10 8	••	16 21	23 23	••
Leigh Warkworth	27 72	17.3	10.0	13.7	-0.6	22.1	23	5.4	29	40	6	- 50	12	24	188
Oyster Point	0	17.2 17.3	7.8 7.8	12.5 12.6	-0.9	20.4 21.5	23 23	2.4 2.3	30 30	77 60	11 10		24 15	24 17	••
Woodhill Forest	30	17.0	8.6	12.8	-0.8	22.0	23	3.9	29	75	10	- 32	24	17	••
Riverhead Forest Kumeu	28 32	17.4 17.5	7.6	12.5 12.6	-0.8	21.5 21.5	23 23	1.2 1.0	29 30	72 81	7 13	-47	19 19	17 17	••
Whenuapai	26	17.3	8.0	12.7	-0.7	20.8	5	3.0	30	75	13	- 37	20	24	••
Albert Park, Auckland Owairaka, Auckland	49 41	17.8 17.3	10.6 9.2	14.2 13.3	-0.4 -0.5	20.6 20.2	3 3	7.2 4.7	29 28	55	9	- 52	15	17	191*
Port Fitzroy	4	17.8	9.8	13.8	-0.5	20.2	5	5.1	28 29	57 59	10 12	57 76	15 24	24 23	••
Coromandel Whangapoua Forest	43 4	18.0 18.5	8.6	13.3 13.4		21.7	23	1.2	29	99	13		32	23	••
Thames	3	17.9	8.3 10.5	14.2	-0.1 -0.4	21.0 20.7	3 24	1.2 4.1	29 29	88 73	13 	-54	24 15	5 17	•••
Tairua Forest	3	18.3	8.6	13.5	-0.3	22.3	3	2.6	28	90	9	- 50	21	24	•••
Paeroa Waihi	4 91	19.0 17.7	8.4 8.9	13.7 13.3	+0.4 +0.0	22.0 20.6	3 3	1.4 1.4	29 30	87 121	12 11	-25 -59	23 25	13 24	172
Te Aroha	18	18.5	9.6	14.1	+0.0	21.5	3	3.1	29	118	13	-12	36	17	
Katikati Tauranga	2	18.4 17.9	9.1 10.0	13.8 14.0	+0.0	21.7 21.7	3	1.9 4.3	30 28	81 82	9 10	••	27 28	25 17	••
Tauranga Airport	4	18.0	8.9	13.5	+0.0	21.7	31	3.3	29	93	12	-21	32	17	208
Te Puke Rotoehu Forest	91 72	17.9 17.7	8.0 6.7	13.0 12.2	-0.1 -0.2	22.0 22.2	3 31	0.1 0.0	28 29	85 126	10 9		43	17	210
Edgecumbe	5	18.6	7.5	13.1	-0.2	23.4	31	1.7	28	80	9	- 14	63 23	17 17	••
Whakatane Whakatane Airport	2 6	18.5 18.0	9.0 7.9	13.8 13.0	+0.0	24.5 23.8	31	3.3	30	112	9	+13	37	17	230
Port Ohope	9	18.0	9.9	14.0	••	23.8 23.7	31 31	2.7 5.9	30 30	102 91	9 9	••	27 28	17 17	233
Kinleith Tikitere	383	16.0	7.1	11.6	+0.4	20.4	30	1.2	30	81	12	-71	26	17	
Kawerau	338 30	15.8 18.8	7.6 8.0	11.7 13.4	-0.5	19.4 24.0	31 31	2.2 0.4	28 29	126 168	8	+23	38 53	24 17	••
Te Teko	8	19.7	7.2	13.5	+0.1	24.5	31	0.8	28	93	7	- 29	30	17	204
Whakarewarewa Rotorua Airport	307 287	16.6 16.6	7.6 7.6	12.1 12.1	+0.0 +0.1	20.6 20.7	31 31	0.8 2.1	28 30	95 106	11 7	-27 -18	29 31	17 24	206
Tarawera Forest	61	18.7	6.9	12.8	+0.3	23.7	31	-0.7	30	207	8	+37	64	17	200
Waiotapu Forest Atiamuri Power Station	435 253	16.0 17.1	6.4	11.2	-0.1	21.7 20.9	31 30	0.4	10	86 79	10 11	-31 -46	30 31	17 17	••
Kaingaroa Forest	544	15.3	5.2	10.3	-0.2	19.5	31	-1.8	30	137	8	+10	38	17	••
Murupara Wairapukao Forest	198 437	18.3 16.7	6.1 5.3	12.2 11.0	+0.4	22.8 20.9	31 31	-0.9 -1.2	30 10	99 110	10 10	$-10 \\ -7$	24 31	17	••
Taupo	376	16.5	6.3	11.4	+0.0	20.2	30	-0.3	30	88	10	-14	31 36	17 17	202
Wairakei Power Station Wairakei Research Station	342 402	17.0 16.8	6.3 5.6	11.7 11.2	+0.0 +0.3	21.0 20.5	31 30	0.0 -1.5	28 30	89	12	-15	38	17	••
Minginui Forest	366	16.9	5.5	11.2	+0.3 +0.2	20.5 21.6	30 31	-1.5 -4.4	30 30	94 121	10 11	-8 -3	41 41	17 17	•••
Taupo Airport Waimihia Forest	407 743	15.9	6.3	11.1	_0.3	19.2	30	-3.0	29	68	10	• ••	29	17	••
Opotiki	/45 6	13.2 17.2	4.0 8.7	8.6 13.0	-0.2 -0.3	17.3 20.4	30 27	-1.5 2.7	30 30	102 128	13 10	- 45 + 21	25 47	17 24	207
Waimana	37	18.4	7.3	12.9	-0.4	24.3	31	1.6	10	151	10	+ 19	42	24	••
Mangere, Auckland Otara, Auckland	4 12	17.0 17.4	10.6 8.7	13.8 13.1	-0.1 -0.3	20.4 20.4	23 3	2.9 2.2	29 28	69 81	10 12	-33 -18	22 19	24 23	185
Auckland Airport	8	16.8	10.5	13.7	-0.3	20.8	23	5.9	29	51	8	- 53	13	17	190
Ardmore Pukekohe	30 82	17.4	8.0	12.7	-0.5	20.6	5	1.6	28	83	12	-29	27	24	••
Maioro Forest	52	16.7	9.2	13.0	-0.6	21.5	22	2.7	29	46	ii	- 68	 17	5	•••
Hunua Maramarua Forest	122 38	16.6 17.7	7.0 6.9	11.8 12.3	-0.5	20.0 20.7	27 23	1.0 -0.5	30 29	112 104	16 12	-3	38	24	••
Te Kauwhata	32	17.7	8.5	13.1	-0.5	21.2	23	2.6	29 29	74	12	-3	41 34	24 24	179
Huntly Ruakura, Hamilton	34 40	17.7	7.8	12.8	+0'i	20.0	25		10		••	• • •	••		••
Whatawhata	104	16.7	8.6	12.8	+0.1	20.9 20.5	25 23	0.3 1.0	29 29	78 108	12 13	-29 -42	24 30	17 24	180 175
· · · · · · · · · · · · · · · · · · ·								2.2		-50			50	~7	1/3

11 December

THE NEW ZEALAND GAZETTE

CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for October 1981-continued

CLIMATOLOGICAL	TABLE-				nperature i										
	Height of	 Mea	ns of			AI		faximum a	and			Differ-	Maxin Fa		Bright Sun-
Station	Station Above M.S.L.			Mean of A and	Differ- ence From			imum		Total Fall	No. of Rain	From Normal	Amount	Date	shine
	4	A Max.	B Min.	B	Normal	Maxi- mum	Date	Mini- mum	Date		Days		Amount	Date	
Rukuhia	Metres 66	°C 17.4	°C 8.8	°C 13.1	°C +0.1	°C 21.4	25	°C 2.2	29	mm 66	10	mm 46	mm 27	17	Hrs 174
Hamilton Airport	50	17.9	6.9	12.4	+0.1	21.9	25 15	-0.6 0.7	29 29	62 68	9 11	- 47	25 23	17 17	••
Cambridge Port Taharoa	76 27	18.0	7.4	12.7	••	21.6		0.7	29			•••			••
Mohakatino Station Mokau	46	15.8	9.1	12.5	-0.5	18.1	9	2.4	29	82	9	-73	28	24	••
Arapuni Power Station Waikeria	123 46	18.6 18.1	7.9 7.3	13.3 12.7	+0.3	21.9 21.5	21 19	1.4 - 0.7	30 29	101 74	13 12	-31	40 28	17 24	••
Te Kuiti	61	17.9	8.2	13.1	+0.3	21.0	23	0.5	29	103	12	- 49	40	16	164
Wairere	122 549	16.7	7.1	11.9	••	19.7	21	-0.8	29	61	14	- 86	17	5	•••
Pureora Forest Taumarunui	171	18.0	7.7	12.9	+0.1	21.5	30	-1.6	29	85	15	- 52	24 24	16	175
Omata	61	• •		10 5	• •	10 5	•••	2.0	10	114	11	••	 25		••
New Plymouth New Plymouth Airport	55 27	16.0 15.7	8.9 8.8	12.5 12.3	+0.0	18.5 18.5	9 24	3.0 2.5	10 30	94	11	-41	23	17	191
Tikorangi	77	16.2	8.1	12.2	•••	19.1	30	3.0	29	116	14	•••	34	17	••
North Egmont Te Wera Forest	955 180	15.8	3.6 6.2	11.0	-0.4	 19.0	21	-0.5 -1.5	18 29	681 165	18 13	 5	137 58	22 24	•••
Lower Retaruke	223				••										
Turangi Chateau, Mt Ruapehu	366 1119	16.3	6.8	11.6	+0.2	21.3	30	-1.1	30	93	13	••	26 	17	199
Mangamutu, Pahiatua	116	16.2	6.3	11.3	-0.3	20.5	5	-1.5	30	99	11	-33	40	31	
Mt Bruce Reserve	305	15.3	6.2	10.8	+0.4	21.1	21	-0.8	30	208	25	••	29	24	••
Waingawa, Masterton Kopua	114 311	15.8	7.0	11.4	+0.2	20.8	23	-0.3	30	69	13	- 10	24	24	
Waipukurau	137	17.5	6.4	12.0	+0.2	23.4	23	0.0 -0.9	30 30	45 90	10 14	$-11 \\ -1$	16 36	24 24	188* 164
Dannevirke Porangahau	207 8	16.4 17.4	7.4 8.8	11.9 13.1	+0.1	20.8 24.6	22 23	-0.9	30 10	90 43	14	-1	- 30 - 9	24	
Castlepoint	3	16.3	9.7	13.0	-0.4	20.4	21	5.5	30	91	12	+27	69	24	••
Ngaumu Forest Tauherenikau, Alloa	244 43	16.5	5.8	11.2	+0.5	22.0	31	-0.5	30	85	13	-1	44	24.	•••
Gladstone, Arahura	116	16.7	6.5	11.6	+0.1	20.5	31	0.4	12	66	11	-3	37	24	••
Waiorongomai Cono Pollicer	21 10	15.2 16.1	7.4 9.1	11.3 12.6	-0.5 -0.8	18.5 22.2	31 3	$-0.1 \\ 2.8$	29 2	185 207	15 14	+50 + 131	43 103	6 24	••
Cape Palliser East Cape	10	17.4	10.8	12.0	+0.3	22.5	4	6.5	8	81	11	-26	20	18	
Ruatoria	61	19.3	8.8	14.1	+0.3	24.6 23.6	26	2.4 2.2	8 29	164 122	13 14	+22 + 20	48 32	18 18	••
Mangatu Forest Manutuke Gisborne	182 9	18.0 18.6	8.1 8.1	13.1 13.4	+0.3 +0.1	25.0 25.3	11 3	2.2	29	79	10	+20 + 8	36	17	•••
Gisborne Airport	4	18.8	8.6	13.7	+0.2	25.7	3	2.4	13	92	12	$^{+21}_{+70}$	55	17 17	222
Onepoto, Waikaremoana Wharerata Forest	643 439	· · · ·	5.9	 	•••	••	••	0.5	30 	220	13	+ 70	94	17	•••
Esk Forest	427	••										••	• •		••
Kaweka Forest Napier Airport	414	16.6 18.9	7.5 7.6	12.1 13.3	+0.0	23.4 27.1	3 3	2.2 2.0	30 8	109 44	15 10	- 14	. 65 27	17 17	• •
Napier	2	19.1	8.8	14.0	+0.2	27.2	3	2.6	30	69	8	+16	31	24	196
Hastings Havelock North	12 9	18.5	7.0	12.8	+0.4	27.0		0.3	30	45	ii	-6	27	 17	190
Gwavas Forest	335	16.7	5.1	10.9	+0.2	23.1	3	-0.8	30	93	13	+9	43	17	
Makaretu Mohaka Forest	335 286	16.9 17.4	6.1 7.3	11.5 12.4	$^{+0.0}_{+0.0}$	22.0 23.0	3	0.1 1.4	30 30	72 258	14 11	+ 145	29 152	24 17	•••
Frasertown, Wairoa	200	19.0	8.7	13.9	+0.1	25.7	3	4.5	11	101	11	+2	63	17	
Wairoa Barriand Island	20 78	18.3 16.0	8.6 10.5	13.5 13.3	-0.1 + 0.2	24.9 21.2	3 23	4.9 5.6	7 28	81 41	10 13	-17	48 12	17 17	213
Portland Island Kapiti Island	16	10.0		15.5								• •			•••
Paraparaumu Airport	7	14.8	8.1	11.5	-0.8 -0.7	17.8 20.7	22 5	1.5 0.3	29 30	69 51	14 11	$-28 \\ -28$	16 13	22 16	163
Flockhouse, Bulls Ohakea	9 48	15.6 15.9	7.5 8.6	11.6 12.3	-0.7	20.7	5	3.0	30	45	12	- 41	15	16	188
Wharite Peak	914		. :	11 6		20.7	•••		::		14	••		16	156
Kairanga Palmerston North Palmerston North Airport	15 45	16.1 16.0	7.1 6.9	$11.6 \\ 11.5$	-0.8 -0.5	20.7 20.7	5 5	0.2 0.0	30 29	41 30	14 13	- 51	8	16	150
Palmerston North D S I R	34	16.0	8.4	12.2	-0.3	20.5	5	1.5	29	44 49	13 11	-45 -27	12 12	6 17	134
Foxton Waitarere Forest	3 3	15.4	7.7	11.6	- 0.9	18.5	22	-0.5	29	54	11	-27	12	16	•••
Levin	46	15.5	8.2	11.9	-0.5	19.0	22	2.5	29	86	15	-13	17	16	141
Taita, Lower Hutt Avalon, Lower Hutt	65 15	14.9 15.0	7.8 8.2	$\begin{array}{c} 11.4\\ 11.6 \end{array}$	-0.6 -0.8	17.8 18.6	26 31	0.8 1.3	29 29	129 110	15 15	+7 +6	30 23	23 23	173
Kelburn, Wellington	125	14.0	8.3	11.2	-0.7	18.2	26	4.2	29	156	11	+ 44	44	24	178
Somes Island Gracefield, Lower Hutt	43 34	14.2	. 8.8 8.8	11.5	••	17.0	31	3.5 2.1	29 29	122 110	12 12	 +1	27 23	5 5	••
Wainuiomata	82	14.5	6.9	10.7	-1.0	18.3	31	-0.6	29	204	14	••	69	24	••
Wellington Airport	6 223	14.8 14.2	8.9 6.3	11.9 10.3	-0.8 - 0.1	18.7 17.6	31 30	2.6 -1.4	29 14	147 242	12 20	+58 +49	50 42	24 24	156
Kaitoke Wallaceville	225 56	14.2 15.0	6.8	10.5	-0.1	18.2	31	-1.0	29	123	17	+6	27	22	167
Cape Egmont	8 846	15.5	9.3	12.4	-0.7	18.0 19.0	24 31	3.8 -1.3	10 10	132 707	13 16	+2 +92	35 144	17 24	••
Stratford Mountain House Stratford Dem. Farm	846 311	12.0	3.3	7.7	+0.0										•••
Manaia Dem. Farm	98	14.9	7.8	11.4	-0.4	18.6 20.6	5 3	1.9 1.2	29 30	135 111	22 18	+23	38 33	17 17	198
Normanby	122	15.1	7.3	11.2	••	20.0	3	1.2	50		10	••	55	17	

THE NEW ZEALAND GAZETTE

CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for October 1981-continued

Jasim Heigh Attack Heigh Attack Heigh Attack Junto <thju< th=""><th></th><th></th><th></th><th></th><th></th><th>nperature i</th><th></th><th></th><th></th><th>fall in Millin</th><th><u> </u></th><th></th><th></th></thju<>						nperature i				fall in Millin	<u> </u>					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Station	of Station	Mea	ns of			A			and	Total					Sun-
Pates					and	From		Date		Date		Rain	From	Amount	Date	
$ \begin{array}{c} Onkizer Junction & G29 & 14.2 & 5.0 & 9.6 & & 18.0 & 1 & -2.2 & 30 & 64 & 11 & & 20 & 16 & \\ Walow Millary Camp & G23 & 12.6 & 2.9 & 5.3 & -0.3 & 2.0 & 30 & 13 & -40 & 12 & 17 & \\ Walow Millary Camp & G23 & 12.6 & 2.9 & 5.7 & -0.2 & 17.8 & 2.2 & -5.3 & 2.9 & 5.0 & 13 & -40 & 12 & 17 & \\ Tabhge & 433 & 16.4 & 6.0 & 11.2 & +0.0 & 20.0 & 3 & -2.3 & 2.9 & 54 & 12 & & 2.3 & 17 & \\ Tabhge & 433 & 16.4 & 6.0 & 11.2 & +0.0 & 20.0 & 3 & -2.3 & 2.9 & 54 & 12 & & 2.3 & 17 & \\ Tabhge & 433 & 16.4 & 6.0 & 11.2 & +0.0 & 20.0 & 3 & -2.3 & 2.9 & 54 & 12 & & 2.3 & 17 & \\ Tabhge & 433 & 16.4 & 6.0 & 11.2 & +0.0 & 20.0 & 3 & -2.3 & 2.8 & 54 & 12 & & 2.3 & 17 & \\ Tabhge & 18.0 & 5.1 & 10.0 & -0.6 & 19.3 & 3 & -1.3 & 2.8 & 51 & 10 & -30 & 117 & 177 & 197 \\ Wangmul Airport & 2 & 16.6 & 9.3 & 13.0 & +0.0 & 23.0 & 23 & 12.8 & 31 & 0 & -30 & 113 & -21 & 58 & 55 & \\ Totaranu & 10 & 16.4 & 7.7 & 12.4 & -0.3 & 10.3 & 30 & 4.3 & 0.8 & 31 & -32 & \\ Totaranu & 10 & 16.4 & 5.7 & 7.8 & 11.8 & & 18.7 & 3 & 2.0 & 18 & 214 & 15 & & 163 & 57 & \\ Acaptio & 20 & 15.7 & 7.8 & 11.8 & & 18.7 & 3 & 2.0 & 18 & 214 & 15 & & 163 & 57 & \\ Lake Rotton & 198 & 15.9 & 4.7 & 10.3 & & 19.0 & 25 & 5.7 & 13 & 266 & 16 & & 60 & 5 & \\ Lake Rotton & 198 & 15.4 & 6.3 & 11.4 & +0.1 & 10.2 & 25 & 0.7 & 13 & 266 & 16 & & 60 & 5 & \\ Totaranu & 7 & 16.6 & 6.3 & 11.4 & +0.1 & 22.0 & 24 & 0.8 & 19 & 221 & 1.5 & +24 & 60 & 5 & \\ Hart Hart & 43 & 15.5 & 5.6 & 10.1 & -0.1 & 17.8 & 3 & 1.6 & 13 & 223 & 13 & +21 & 156 & 5 & \\ Hart Hart & 45 & 15.5 & 5.6 & 10.1 & -0.1 & 18.8 & 3 & 1.6 & 27 & 659 & 18 & +11 & 70 & 22 & \\ Hart Hart & 45 & 15.5 & 5.6 & 10.1 & -0.1 & 18.8 & 3 & 1.6 & 27 & 659 & 18 & +11 & 70 & 22 & \\ Hart Hart & 45 & 15.5 & 5.6 & 10.1 & -0.1 & 18.8 & 3 & 1.6 & 27 & 659 & 18 & +11 & 70 & 22 & \\ Hart Hart & 45 & 15.5 & 5.6 & 10.1 & -0.1 & 18.8 & 3 & 1.6 & 27 & 659 & 18 & +11 & 70 & 22 & \\ Hart Hart & 45 & 15.5 & 5.6 & 10.1 & -0.1 & 18.8$	· · · · · · · · · · · · · · · · · · ·							·				·				
KarioiGeneGene11.20.30.320.05-2.5296312-1.22171WaraurWaraur11.22.67.8-0.17.322-5.0299010-0.42217Waraur11.22.67.8-0.12.331-0.8289010-0.421.17Kahur11.12.002.03-2.323-1.3295410-1.220171717Kahur11.65.510.3-0.619.35-1.3294410-1.71818 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-0.7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+12</td> <td></td> <td></td> <td></td>						-0.7							+12			
Waiour Millingy CampE2312.62.97.8-0.216.822-4.3296915-602217TrWangorul2013<	Karioi	648	14.5	4.1	9.3		20.0	5	-2.9	29	63	12		22	17	
An Abu Valley																
Kahui, TahapeSis15.05.510.3-0.619.35-1.3294410171717Wangarui315.69.313.4+0.019.35043.3508312-142914Wangarui1016.47.712.112.131.122.113.132.227147746.95159Cobb Dam2313.43.718.48.411.7+0.118.8174.01224916+66.95159Cobb Dam2313.47.711.8-0.619.925-1.9181441551.51.114.012.224015+41.88010.0180Lake Rotoriti6315.14.09.64.025.025.01323.015+41.88010.0180Rectron1914.77.511.1+0.218.1172.5924420-27+46.81010.0Crewnouth414.68.511.5-0.111.712.0250.61323.015-51.0Crewnouth414.68.511.5-0.111.6-0.71424.81111.110.410.0Crewnouth414.68.511.5-0.1 </td <td></td> <td>85</td> <td>17.4</td> <td>6.8</td> <td>12.1</td> <td>••</td> <td>21.3</td> <td>31</td> <td>-0.8</td> <td>28</td> <td>91</td> <td>10</td> <td></td> <td>24</td> <td>17</td> <td></td>		85	17.4	6.8	12.1	••	21.3	31	-0.8	28	91	10		24	17	
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Fareweil Spit315.98.912.4+0.319.3304.3308.812-1.42924Wethyort Airport214.48.411.1+0.118.513-1.41124711-5.42924Acapato21.577.811.8+0.118.73-1.0181224711.565512Lake Rotorca44315.94.710.319.925-1.51819415605Lake Rotor3014.77.211.1+0.218.1172.592342316154.6605Totara Plat3015.06.311.4+0.121.0250.613230154605Cregenouth414.68.311.5-0.117.0250.6132301540605Cregenouth414.55.610.1-0.716-0.7122611+274.6605Cregenouth414.55.610.1-0.118.831.62765918+414022Paring Janch11.51.610.518.7610.518.7611.2<	· · · · · · · · · · · · · · · · · · ·					1.1.7										
$ \begin{array}{c} \hline retarguing (1) \\ \hline retarguing (1) \\ retarguing (1) \\ retarguing (2) \\ retarguing $			15 0	e	12 1	+03	10 3	20	13	20			_ 34	20	24	•••
$ \begin{array}{c} Cobs Dam & 22 & 13.4 & 3.7 & 8.6 & +0.8 & 20.5 & 3 & -1.8 & 12 & 177 & 13 & -2.1 & 58 & 5 & \\ Lake Rotoroa & 43 & 15.9 & 4.7 & 10.3 & & 18.7 & 3.2.0 & 18 & 124 & 15 & & 61 & 5 & \\ Lake Rotoroa & 43 & 15.9 & 4.7 & 10.3 & & 19.9 & 25 & -1.5 & 18 & 194 & 15 & & 61 & 5 & \\ Lake Rotoroa & 43 & 15.9 & 4.7 & 10.3 & & 19.0 & 25 & -1.5 & 18 & 194 & 15 & & 61 & 5 & \\ Lake Rotoroa & 43 & 15.9 & 4.7 & 10.3 & & 19.0 & 25 & 0.5 & 13 & 220 & 15 & & 7.5 & 5 & 121 \\ Reeton Jport & 198 & 16.4 & 6.2 & 11.3 & +0.2 & 22.0 & 24 & 0.8 & 19 & 221 & 15 & +60 & 66 & 5 & \\ Totara Flat & 77 & 16.5 & 6.3 & 11.4 & +0.1 & 21.0 & 25 & 0.6 & 13 & 230 & 15 & +60 & 66 & 5 & \\ Totara Flat & 77 & 16.5 & 6.3 & 11.4 & +0.1 & 17.0 & 25 & 0.7 & 19 & 239 & 17 & -68 & 70 & 22 & \\ Totara Flat & 71 & 16.5 & 6.3 & 11.4 & +0.1 & 19.4 & 25 & 0.7 & 9 & 399 & 17 & -68 & 70 & 22 & \\ Frauz Josef & 122 & & 1. & 1.4 & 19.4 & 19.4 & 25 & 0.7 & 9 & 399 & 17 & -68 & 70 & 22 & \\ Frauz Josef & 122 & & 1.4 & 10.5 & & 14.7 & 13 & -14 & 27 & 631 & 14 & +13 & 116 & 22 & \\ Millord Sound & 3 & 14.5 & 5.6 & 10.1 & -0.1 & 18.8 & 3 & 1.6 & 27 & 651 & 18 & +13 & 116 & 22 & \\ Frauz Josef & 122 & & 1.4 & 71 & 16.4 & 27 & 301 & 14 & +14 & 47 & 5 & 21.4 \\ Millord Sound & 3 & 14.5 & 5.6 & 10.2 & & 14.7 & 12 & 9 & -44 & 47 & 5 & 21.4 \\ Millord Sound & 3 & 14.5 & 5.6 & 10.2 & & 14.7 & 11.4 & 18 & 106 & 16 & +13 & 116 & 22 & \\ Appleby & 17 & 71.0 & 8.1 & 12.6 & +0.5 & 22.9 & 31 & 1.3 & 18 & 126 & 8 & +14 & 47 & 5 & 21.4 \\ Molesworth & 71 & 77 & 72 & 12.5 & +0.5 & 23.0 & 3 & -0.2 & 18 & 91 & 12 & & 36 & 5 & \\ Appleby & 17 & 71.0 & 8.1 & 12.6 & +0.5 & 22.5 & 31 & 1.6 & 18 & 100 & 16 & +255 & 65 & \\ Appleby & 17 & 71.0 & 8.1 & 12.6 & +0.5 & 22.5 & 31 & 1.5 & 118 & 100 & +50 & 43 & 5 & \\ Multopal Power Station & 10 & 16.4 & 8.7 & 12.6 & +0.5 & 22.8 & 3 & -0.2 & 18 & 91 & 12 & & 1.5 & \\ Multopal Power Station & 10 & 16.4 & 8.7 & 12.6 & +0.5 & 22.8 & 3 & -0.2$		_				+0.3									5	
Arapico Arapico Lake Rotoria2015.77.811.8 18.718.732.01821415 755121Lake Rotoria Hokitta Airport3415.14.09.6+0.920.030-2.9914615615Lake Rotoria Hokitta Airport3814.47.511.1+0.218.112.6922.1242474455Barrytown18011.46.311.2+0.219.024255.771.326615+6065Critra Substation3812.0250.61323015+60665Springe Junction42115.55.711.4+0.412.0250.71923617+72515160Vitra Substation3231.411.611.818162743314+1111622Fox7023917-07141312.01.018.761.42743314+1111022Fox7012.21.01.018.8162765918+113170221.018.8162765918+11317022 <td></td>																
Lake Rotora 443 15.9 4.7 10.3 19.9 25 -1.5 18 194 15 61 5 61 5 61 Februare Lake Rotora 39 14, 7 7.5 11.1 +0.2 18.1 17 2.5 9 244 12 +27 45 10 180 140 172 15.5 61 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 5 71 7 5 71 7 5 71 7 5 71 7 5 71 7 7 5 71 7 7 5 71 7 7 5 71 7 7 5 71 7 7 7 7 1 11 7 7 7 7 1 11 7 7 7 7						+0.8										
Picetina Airport3914,77,511.1+0.218.1172.5928420+274610180Barrytown3015.09.312.219.0255.71326615+4.855Barrytown3015.09.312.219.0255.71326615+4.855Otim Subtration414.68.311.5-0.117.7253.41323015+4.8675Synings Junction4115.55.710.412.719-0.71422317-687022Fox Clacker1514.45610.5-0.118.76114.42743314+111102211.1+0.419.4250.793914+111102215.01.41811.1101.41016.018.834.311.711177.6702218.018.44111101.41111.51.51.618.011.411.811.111.1101.41111.51.51.611.51.51.611.411.8 <td>Lake Rotoroa</td> <td>443</td> <td>15.9</td> <td>4.7</td> <td>10.3</td> <td></td> <td></td> <td></td> <td>-1.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>••</td>	Lake Rotoroa	443	15.9	4.7	10.3				-1.5							••
Recton19816.46.211.3 $+0.2$ 23.0240.8192115 $+41$ 855Totara Flat7716.56.311.4 $+0.1$ 21.0255.71322615 $+60$ 665Origr Substation3315.55.210.421.719 -0.7 142261323015 $+27$ 5116Diara Substation3315.55.210.421.719 -0.7 1422613 $+28$ $+77$ 72221717 -68 702215 -66 10.51711.110.419.419.4250.77935917 -68 7022171717181711.2																
$ \begin{array}{c} Totar Flat \\ Totar Flat \\ Creymouth \\ 4 14.6 \\ 8.3 \\ 11.5 \\ Creymouth \\ 4 14.6 \\ 8.3 \\ 11.5 \\ Creymouth \\ 4 14.6 \\ 8.3 \\ 11.5 \\ Creymouth \\ 4 14.6 \\ 11.5 \\ Creymouth \\ 4 14.6 \\ 12.5 \\ Creymouth \\ 4 14.1 \\ 12.5 \\ Creymouth \\ 4 15.5 \\ Creymo$	Reefton	198	16.4	6.2	11.3		23.0	24	0.8	19	221	15		85	5	
$ \begin{array}{c} \overrightarrow{\text{creymouth}} & 4 & 14.6 & 8.3 & 11.5 & -0.1 & 17.0 & 25 & 3.4 & 13 & 251 & 17 & +27 & 51 & 5 & 160 \\ \overrightarrow{\text{Springs Junction}} & 421 & 15.5 & 5.2 & 10.4 & \dots & 21.7 & 19 & -0.7 & 14 & 236 & 13 & +28 & 67 & 5 & \dots \\ \overrightarrow{\text{Franz Josef}} & 122 & 1.4 & 9 & 61 & 10.5 & 1.8 & 76 & 1.4 & 27 & 433 & 13 & +28 & 67 & 5 & \dots \\ \overrightarrow{\text{Franz Josef}} & 122 & 1.4 & 9 & 61 & 10.5 & 1.8 & 76 & 1.4 & 27 & 433 & 18 & +13 & 117 & 22 & \dots \\ \overrightarrow{\text{Franz Josef}} & 124 & 9 & 61 & 10.5 & 1.8 & 76 & 1.4 & 27 & 433 & 18 & +113 & 117 & 22 & \dots \\ \overrightarrow{\text{Franz Josef}} & 128 & 1.4 & 9 & 61 & 10.5 & 1.8 & 76 & 1.4 & 27 & 433 & 18 & +113 & 117 & 22 & \dots \\ \overrightarrow{\text{Milcof Sound}} & 3 & 14.5 & 5.6 & 10.1 & -0.1 & 18.8 & 3 & 1.6 & 27 & 633 & 18 & +144 & 47 & 5 & 214 \\ \overrightarrow{\text{Milcof Sound}} & 187 & 7.2 & 12.5 & +0.5 & 22.5 & 31 & 1.6 & 18 & 109 & 11 & 2. & .36 & 5 & \dots \\ \overrightarrow{\text{Raymouth}} & 167 & 7.2 & 12.5 & +0.5 & 22.5 & 31 & -1.6 & 18 & 109 & 11 & -2.8 & 57 & .5 \\ \overrightarrow{\text{Raymouth}} & 17 & 17.0 & 8.1 & 12.6 & +0.5 & 22.5 & 31 & -1.6 & 18 & 109 & 11 & -2.8 & 57 & .5 \\ \overrightarrow{\text{Rayleby}} & 17 & 17.0 & 7.6 & 12.3 & +0.9 & 23.0 & 15 & 1.2 & 9 & 117 & 7 & +12 & 100 & 5 & \dots \\ \overrightarrow{\text{Moutere Hills}} & 110 & 16.4 & 8.7 & 12.6 & +0.5 & 22.7 & 15 & 0.8 & 29 & 85 & 9 & +43 & 37 & 1.9 \\ \overrightarrow{\text{Rayleps}} & 79 & 17.0 & 7.6 & 12.2 & +0.2 & 21.7 & 18 & 111 & 10 & +50 & 47 & 5 & \dots \\ \overrightarrow{\text{Rayleps}} & -7.5 & -6.8 & -7.2 & -7.5 & -7.8 & 8 & -2.2 & 1.5 & 1.8 \\ \overrightarrow{\text{Rayleps}} & 7.5 & 12.8 & 12.0 & +0.2 & 21.7 & 15 & 0.8 & 29 & 85 & 9 & -9 & +33 & 7 & 1.9 \\ \overrightarrow{\text{Rayleps}} & 7.7 & 7.9 & 7.2 & 12.6 & +0.2 & 21.7 & 15 & 0.8 & 29 & 85 & 9 & -9 & +33 & 7 & 1.9 \\ \overrightarrow{\text{Rayleps}} & 7.7 & 7.8 & 7.2 & 12.0 & +0.2 & 21.7 & 15 & 0.8 & 29 & 85 & 9 & -9 & +33 & 7 & 1.9 \\ \overrightarrow{\text{Raynorball}} & 314.7 & 9.2 & 12.0 & +0.2 & 19.5 & 26 & 5.2 & 7 & 73 & 8 & +22 & 4 & 16 & \dots \\ \overrightarrow{\text{Raymorball}} & 7.7 & 7.8 & 7.2 & 1.6 & 12.0 & -0.2 & 12.7 & 15 & 0.8 & 29 & 95 & 9 & +43 & 37 & 1.9 \\ \overrightarrow{\text{Raynorball}} & 7.7 & 7.8 & 7.8 & 1.2 & 7.7 & 10 & 1.8 & 110 & 1.8 & 1.3 & 1.8 & 126 & 1.1 & 1.8 \\ \overrightarrow{\text{Raynorball}} & 7.7 & 7.8 & 7.8 & 1.0 & -0.6 &$																••
Springe Junction42115.55.210.421.71990.71423613+28675																160
Hari Fari4515.56.711.1+0.419.42.50.793917-687022Fox Glacier1521.4.96.110.518.761.42763314+1111622Puysegur Point4314.2.87.610.218.034.31711127-741410Puysegur Point4312.87.610.218.034.31711127-741410Riwaka, Motueka817.77.212.2+0.523.5231318181066+256.7Appleby1216.57.112.2+0.521.73118181066+256.75Mai Valley77.77.612.2+0.520.9314.118181016+256.71104.54.51.71811114.751.41445510051.21.51.21101104.51.51.71811114.71101.51.211011011011011			15 5			••	21 7	10	-0.7	14				67		
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Millord Sound111<						••	10.7		1.4							
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	Puysegur Point	43	12.8				18.0	3			111	27	-74	14	10	
				7.2	12 5	+0.5			13	18						214
			17.8		12.0		23.0	3	-0.2	18	91	12	• •	36	5	
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BitenkeimTot418.17.512.8+0.323.6152.828969+43375199Waihopai Power Station26 <t< td=""><td>Moutere Hills</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Moutere Hills															
Waihogai Power Station262 <td></td>																
Lake Grassmere215.78.212.0 -0.2 21.2233.07636+20265182Cape Campbell311.79.212.0 $+0.2$ 19.5265.27738 $+22$ 2416Molesworth893 <t< td=""><td>Waihopai Power Station</td><td></td><td></td><td>••</td><td></td><td>••</td><td></td><td></td><td>• •</td><td></td><td></td><td></td><td>••</td><td></td><td></td><td>107</td></t<>	Waihopai Power Station			••		••			• •				••			107
Molesworth893 <td>Cape Campbell</td> <td>3</td> <td>14.7</td> <td>9.2</td> <td>12.0</td> <td>+0.2</td> <td>19.5</td> <td>26</td> <td>5.2</td> <td>7</td> <td>73</td> <td>8</td> <td>+22</td> <td></td> <td></td> <td></td>	Cape Campbell	3	14.7	9.2	12.0	+0.2	19.5	26	5.2	7	73	8	+22			
Kaikoura Flats2416.95.411.225.940.8711083416Kaikoura10815.47.811.6+0.025.543.9288710+263616203Arthurs Pass73812.33.07.719.019-1.62824916-1.35704Balmoral Forest198 <td></td> <td></td> <td>17.3</td> <td>4.7</td> <td>11.0</td> <td>+0.6</td> <td>23.4</td> <td>3</td> <td>-1.3</td> <td>12</td> <td>131</td> <td>11</td> <td>+ 34</td> <td>39</td> <td></td> <td></td>			17.3	4.7	11.0	+0.6	23.4	3	-1.3	12	131	11	+ 34	39		
Arthurs Pass73812.33.07.719.019-1.62824916-135704Balmoral Forest198 <td>Kaikoura Flats</td> <td>24</td> <td></td> <td>16</td> <td></td>	Kaikoura Flats	24													16	
Baimoral Forest198																
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							• •				• •	•••			••	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hawarden															••
Mt John102713.83.28.5 $+0.7$ 20.514 -2.4 17626 $+19$ 204Craigieburn Forest914 <td></td> <td>22</td> <td>163</td>															22	163
Lake Coleridge36417.05.411.2 $+0.6$ 23.4140.21110414 $+28$ 334Highbank Power Station33616.26.411.3 $+0.6$ 24.830.32710410 $+18$ 334191Hororatz Substation19218.45.411.9 $+1.1$ 26.23 -2.2 2511012 $+44$ 314Winchmore16017.56.011.8 $+1.2$ 28.130.8259610 $+35$ 264Peel Forest27417.65.111.429.030.02711715424Ashburton10119.26.412.8 $+1.1$ 29.231.2259511 $+34$ 2716175Kapgora64 <td></td> <td></td> <td>13.8</td> <td>3.2</td> <td>8.5</td> <td>+0.7</td> <td>20.5</td> <td>14</td> <td>-2.4</td> <td>17</td> <td>62</td> <td>. 6</td> <td>+ 19</td> <td>20</td> <td>4</td> <td></td>			13.8	3.2	8.5	+0.7	20.5	14	-2.4	17	62	. 6	+ 19	20	4	
Highbank Power Station33616.26.411.3 $+0.6$ 24.830.32710410 $+1.8$ 334191Hororata Substation19218.45.411.9 $+1.1$ 26.23 -2.2 2511012 $+44$ 314Winchmore16017.56.011.8 $+1.2$ 28.130.8259610 $+35$ 264Peel Forest27417.65.111.429.030.02711715424Ashburton10119.26.412.8 $+1.1$ 29.231.2259511 $+34$ 2716175Waipara64			17.0	5.4	11.2	+0.6	23.4	14	0.2	ii	104	 14	+28			
Winchmore16017.56.011.8 ± 1.2 28.130.8259610 ± 35 264Peel Forest27417.65.111.429.030.02711715424Ashburton10119.26.412.8 ± 1.1 29.231.2259511 ± 34 271617.5Waipara64<	Highbank Power Station														•	
Peel Forest27417.65.111.429.030.02711715424Ashburton10119.26.412.8 $+1.1$ 29.231.2259511 $+34$ 2716175Waipara64 </td <td></td> <td>-</td> <td></td>															-	
Waipara 64 $$ <t< td=""><td>Peel Forest</td><td>274</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Peel Forest	274														
Ashley Forest107								-								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ashley Forest	107	••									••			••	
Eyrewell Forest15817.85.611.7 $+0.7$ 27.0 3 -1.0 1857 $+11$ 2216Christchurch Airport3016.76.611.7 $+0.2$ 28.03 0.2 1719 $+28$ 205208Templeton4616.66.111.426.430.618882316Christchurch717.47.412.4 $+0.4$ 27.332.21717 $+25$ 215Bromley, Christchurch916.77.712.2 $+0.5$ 26.04738 $+30$ 1726Mt Pleasant13716.48.512.5 $+0.6$ 25.533.527837 $+32$ 185Lincoln1116.76.311.5 $+0.3$ 26.430.61948 $+46$ 3016198Akaroa318.37.112.726.241.5287272916Lincoln1116.76.311.5 $+0.3$ 26.430.61948 $+46$ 3016198Akaroa318.37.112.726.241.52872729 <td></td>																
Templeton4616.66.111.426.430.618882316Christchurch717.47.412.4 $+0.4$ 27.332.21717 $+25$ 215Bromley, Christchurch916.77.712.2 $+0.5$ 26.04738 $+30$ 1726Mt Pleasant13716.48.512.5 $+0.6$ 25.533.527837 $+32$ 185Lincoln1116.76.311.5 $+0.3$ 26.430.61948 $+46$ 3016198Akaroa318.37.112.726.241.5287272916Lake Tekapo68316.24.110.2 $+0.6$ 22.014 -2.0 18418 -10 164219Lake Pukaki55616.94.610.8 $+1.2$ 24.330.02769112423Fairlie30418.34.611.528.13 -1.4 27606224Kawai7017.15.811.5 $+1.1$ 26.030.025764414<	Eyrewell Forest	158	17.8	5.6	11.7	+0.7	27.0	3	-1.0	1	85	7	+11	22		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										_						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		7	17.4	7.4	12.4	+0.4	27.3	3			71	7	+25	21		
Lincoln1116.7 6.3 11.5 $+0.3$ 26.4 3 0.6 1 94 8 $+46$ 30 16 198 Akaroa3 18.3 7.1 12.7 $$ 26.2 4 1.5 28 72 7 $$ 29 16 $$ Lake Tekapo 683 16.2 4.1 10.2 $+0.6$ 22.0 14 -2.0 18 41 8 -10 16 4 219 Lake Pukaki 556 16.9 4.6 10.8 $+1.2$ 24.3 3 0.0 27 69 11 $$ 24 23 $$ Fairlie 304 18.3 4.6 11.5 $$ 28.1 3 -1.4 27 60 6 $$ 22 4 $$ Twizel 457 17.9 3.3 10.6 $+1.2$ 24.0 14 -2.7 9 69 10 $$ 22 23 $$ Ikawai 70 17.1 5.8 11.5 $+1.1$ 26.0 3 0.0 25 76 4 $$ 41 4 $$									2 4							••
Akaroa318.37.112.7 \ldots 26.241.528727 \ldots 2916 \ldots Lake Tekapo68316.24.110.2 $+0.6$ 22.014 -2.0 18418 -10 164219Lake Pukaki55616.94.610.8 $+1.2$ 24.330.0276911 \ldots 2423 \ldots Fairlie30418.34.611.5 \ldots 28.13 -1.4 27606 \ldots 224 \ldots Twizel45717.93.310.6 $+1.2$ 24.014 -2.7 96910 \ldots 2223 \ldots Ikawai7017.15.811.5 $+1.1$ 26.030.025764 \ldots 414 \ldots							26.4		0.6	1	94	8		30	.16	198
Lake Pukaki55616.94.610.8 ± 1.2 24.330.02769112423Fairlie30418.34.611.528.13 -1.4 27606224Twizel45717.93.310.6 ± 1.2 24.014 -2.7 969102223Ikawai7017.15.811.5 ± 1.1 26.030.025764414	Akaroa															
Fairlie30418.34.611.5 \ldots 28.13 -1.4 27606 \ldots 224 \ldots Twizel45717.93.310.6 $+1.2$ 24.014 -2.7 96910 \ldots 2223 \ldots Ikawai7017.15.811.5 $+1.1$ 26.030.025764 \ldots 414 \ldots														24	23	
Kawai 70 17.1 5.8 11.5 + 1.1 26.0 3 0.0 25 76 4 41 4	Fairlie	304	18.3	4.6	11.5		28.1	3	-1.4	27	60	6		22	4	
	Geraldine	119	18.4	6.0	12.2		28.9		1.0				••		4	

11 December

THE NEW ZEALAND GAZETTE

CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for October 1981-continued

				Air Temperature in Degrees Celsius								Rainfall in Millimetres					
Station	Height of Station	Mea	ins of	Mean	Differ-	AI		laximum s imum	and		No.	Differ-		imum all	Bright Sun-		
Stau()]	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 Normal	Amount	Date	shine		
<u></u>	Metres	°C	°C	°c	'. °C	°C	L	°c	I	mm	·	mm	nm	ـــــــــــــــــــــــــــــــــــــ	Hrs		
Orari Estate Temuka	81 24	18.0	5.6	11.8	+1.0	28.1	4	0.7	27	79 	7 	+18	26	4	••		
Timaru Airport	26	17.2	5.1	11.2	+0.7	28.1	3	-0.3	27	99	7	+ 53 + 58	28 34	23 4	••		
Adair Timaru	85 17	16.6 16.9	6.8 7.2	11.7 12.1	+0.8	28.2 29.0	3 3	1.4 2.3	27 27	106 101	7	+ 58	33	4	166		
Waimate	61	16.9	6.9	11.9	+0.4	29.6	3	1.5 0.5	25 18	90 62	6 10	+ 39	46 26	4 23	••		
Kurow Oamaru Airport	207 30	18.1 15.8	6.8 6.9	12.5 11.4	+1.1	26.5 26.9	3	1.5	25	66	4	+25	43	4	150		
Tara Hills, Ômarama	488 350	15.9	5.6	10.8	+0.1	21.3	 30	 1.1	18	57	i2	 -9	 15	22	••		
Lake Hawea Wanaka	296	17.8	5.1	11.5	+1.0	23.7	30	-0.4	18	65	12	+7	19	23	••		
Queensberry Bendigo	277 200	18.1 19.1	5.8 5.3	12.0 12.2	••	23.7 25.2	3	-0.7 -1.3	27 18	40 17	10 8	••	11 9	23 23	•••		
Naseby Forest	610	15.7	2.7	9.2	+0.6	21.6	4	-3.2	28	66	5	+ 10	35	23			
Windsor Ranfurly	88 427	16.6	4.1	10.4	•••	23.0	3	-2.1	28	49	ż		24	4	174		
Herbert Forest	61	16.5		 10.8	+ 0.9	27.4		-1.2	28	 45		••	21 21	23	163		
Palmerston Cherry Farm Hospital	21 6	16.5 	5.0 	10.8	+0.9	27.4	••	••									
Taiaroa Head	72 30	14.1 15.9	7.6 6.4	10.9 11.2	+0.6	24.5 24.3	3 7	2.1 0.1	1 28	43	12 14	-8	17 31	23 23	169		
Invermay, Taieri Berwick Forest	18	16.9	5.5	11.2	+0.7	27.2	3	0.6	28	34	13	-22	18	23 23	159		
Dunedin Airport Musselburgh, Dunedin	1 2	16.6 15.3	5.2 7.8	10.9 11.6	+0.3 +0.5	26.9 25.0	3	-0.4 3.5	28 1	56 62	15 13	+10 +4	32 31	23	159		
Te Anau	215	15.3	5.5	10.4	+1.2	22.0	28	-0.4	18	117 428	14 18	+15	25 77	22 3	202		
West Arm, Manapouri Borland Burn	232 183	13.4 15.6	5.4 4.0	9.4 9.8	+0.4	19.5 23.0	29 28	1.0 1.0	18 9	428	19	•••	29	3	••		
Queenstown	329	17.5	5.8	11.7	+1.3 +0.6	24.3 23.8	30 3	1.8 -0.8	18 13	74 50	13 11	-2	21 13	22 22	217		
Queenstown Airport Otama	349 183	16.1 15.3	4.4 5.2	10.3 10.3	+0.8	22.8	3	1.0	28	45	14	-16	9	23	••		
Cromwell	213 210	18.5 18.7	5.4 5.5	12.0 12.1	+0.5	26.8 25.8	3	-0.6 -0.3	18 18	23 13	11 9	- 10	10 6	23 23	225		
Northburn Lauder	112				•••								••		••		
Clyde Dam Ophir	160 305	18.8	6.4	12.6	••	26.9	3	1.1	18	36 17	8 1	-24	13 17	22 23	•••		
Moa Creek	427	17.5	2.3	9.9	+0.9	22.5	29	-3.1	7	20 24	·	-16	16 11	23 23	••		
Earnscleugh Alexandra	152 141	18.9	4.6	11.8	+0.8	27.5	3	-1.5	18 	24	••	-0					
Roxburgh Power Station	110	17.8	5.6	11.7	+0.2	27.0	3 3	1.0 - 0.3	1 28	38 78	9 14	+0 -3	12 19	23 31	••		
Beaumont Mahinerangi Dam	46 396	17.4 14.5	5.0 4.1	11.2 9.3	+0.9	26.2 20.5	7	0.2	17	82	15	+11	27	23			
Tapanui	226 15	15.5 15.1	5.1 6.0	10.3 10.6	+0.0 +0.6	24.5 26.0	3 3	0.8 1.1	27 28	72 52	17 12	-2 -9	16 16	23 23	•••		
Taieri Mouth Tuatapere	27	15.8	5.7	10.8	•	25.0	3	0.8	1	82	14		12	31			
Otautau Winton	55 44	16.2	5.6	10.9	+0.8	22.9	3	0.5	28	92	13	+1	22	26 	159 		
Gore	123	14.9	5.8	10.4	+0.2	22.1	3	0.2	17	72	17		12 9	31 23	157		
Hokonui Forest Woodlands	46 47	15.7 15.3	5.6 5.7	10.7 10.5	+0.2 +0.3	23.7 22.7	28 28	-0.3 1.4	17 28	70 94	15 24	-11	13	26	•••		
Invercargill Airport	0	14.8	5.8	10.3	+0.4	22.8	3 3	1.1	28 28	99 122	19 20	+13	15 24	15 2	165		
Tiwai Point, Bluff Stewart Island	5 3	14.2 14.0	7.1 6.7	10.7 10.4	+0.1	20.0 21.0	7	3.0 1.1	27	220	28	· · : <u>·</u>	41	2			
Milton	18 6	16.8 16.5	5.7 6.5	11.3 11.5	+1.0 +1.2	24.5 23.5	3 3	1.4 1.0	12 28	36 44	14 12	-17	15 18	23 23	151		
Finegand, Balclutha Owaka	5	15.3	5.5	10.4		23.5	3	0.8	28	92	20		15	8	••		
Nugget Point Tautuku	129 61	13.5 15.2	6.3 6.0	9.9 10.6	+0.5	22.0 24.0	3 22	2.4 1.2	27 17	88 163	20 22	+24	17 28	31 31	••		
Nandi Airport, Fiji	19	29.7	19.7	24.7	-0.6	33.2	26	15.0	18	82	10		28 59	2 15	230 148		
Rarotonga Airport Totokoitu, Rarotonga	7 9	26.2	20.5	23.4	+0.4	28.7	18 	17.5 	10 	131	9 	+1	••	••	••		
Raoul Island	38 15	19.5 8.3	14.1 4.4	16.8 6.4	-0.7 + 0.2	21.4 11.4	25 29	10.9 0.2	29 27	52 159	20 27	- 34 + 42	22 46	24 7	175 77		
Campbell Island Waitangi, Chatham Island	15 44	8.5 12.8	4.4 7.6	10.2	+0.2 +0.0	16.0	26	3.0	28	31	16	-25	12	24	126		
Scott Base, Antarctica	16	-17.9		-23.5	-0.7	-5.8		-47.4	4	••	••		••	••	••		
			. I	LATE R	ETURN	IS AND	CORF	(ECHC	INS								
Waiotemarama 09/1981 Dargaville 09/1981	229 20	13.7 15.9	8.4 9.4	11.1 12.7	+0.5	19.0 25.5	24 27	4.7 3.9	19 18	131 91	25 25	-6	27 13	24 1	143		
Marsden Power Station 09/1981	3	17.4	8.4	12.9	+0.0	22.9	24	5.8	19	80	23		18	. 1	•		
Whakatane 09/1981	2	16.5	6.4	11.5	-0.4	18.5 17.3	23 24	2.5 3.5	7 18	58 92	13	-36	24 14	28 24	17 4		
Huntly 09/1981 Port Taharoa 09/1981	34 27	15.0 	8.2	11.6 	•••	17.3		3.5		105	••	••	24	24	•••		
Mangamutu, Pahiatua 09/1981	116	13.7	5.4	9.6	-0.4	15.5	21	-2.5	6	204	23	+100	27	24			
Waingawa, Masterton 09/1981	114	15.0	5.9	10.5	+0.5	18.2	19	0.0	18	61	17	-13	16	20	170		
Tauherenikau, Alloa												-29	13	9			
09/1981 Wharerata Forest 09/1981	43 439	15.2 13.8	5.5 3.9	10.4 8.9	+0.1	19.2	19 	-0.1	22 	60 53	18 • •	- 29	13	9 14	•••		

THE NEW ZEALAND GAZETTE

No. 147

CLIMATOLOGICAL TABLE-Summary of the Records of Temperature, Rainfall, and Sunshine for October 1981-continued

				Air Tei	nperature i	n Degrees	Rainfall in Millimetres								
Station	Height of Station Above M.S.L.	Means of		Mean of A	Differ- ence	AI		laximum a mum	ind	Total	No. of	Differ- ence	Maxii Fa		Bright Sun- shine
·	M.S.L.	A Max.	B Min.	and B	From Normal	Maxi- mum	Date	Mini- mum	Date	Fall	Rain Days	From Normal	Amount	Date	
	Metres	°c	°C	°C	°C	°C		°C		mm		mm	mm		Hrs
			L	ATE R	ETURN	S AND	CORI	RECTIC	ONS						1113
Ohakea 09/1981	40	10 0		·											
Wharite Peak 09/1981	48 914	13.9	7.5	10.7	-0.3	16.3	20	3.3	18	112	21	+46	31	24	126
	914	5.9	1.5	3.7	-1.1	9.6	24	-3.0	6	192	••	+ 50	43	24	
Kairanga Palmerston North 09/1981	15	14.1	-												
Palmerston North D S I R	15	14.1	7.9	11.0	+0.4	15.6	20	0.2	6	94	17		23	24	127
09/1981	34	13.9	7.0	10.0											
Taita, Lower Hutt 09/1981	54 65	14.2	7.3 6.4	10.6	-0.2	16.0	20	0.3	6	99	21	+ 30	23	24	101
Kahui, Taihape 09/1981	518	14.2	0.4 4.3	10.3	-0.1	17.0	30	1.0	6	90	17	-22	22	9	172
Mt John 07/1981	1027	4.4	-1.3	7.7	-1.2	15.1	24	0.0	6	90	21		9	24	
Mt John 08/1981	1027	2.9	-2.9	1.6	+0.3	10.2	1	-5.0	17	77	••	+31	23	29	••
Mt John 09/1981	1027	2.9 9.5	-2.9 -0.7	0.0 4.4	-2.7	8.3	17	-7.2	5	28	••	-10	10	26	• •
Craigieburn Forest 09/1981	914		-1.0		-0.9	13.8	20	-7.5	7	10	••	- 36	2	9	
Ashley Forest 09/1981	107	15.0	3.6	9.3	+0.1	10.2		-6.5	1	136	23	-1	20	25	••
Kurow 09/1981	207	14.6	3.4	9.0		19.5 20.4	19	-1.2	1	34	5	- 19	17	20	192
Windsor 08/1981	88	9.6	1.8	9.0 5.7	••	20.4 14.8	19	-4.3	1	15	11		4	4	••
Windsor 09/1981	88	14.4	4.0	9.2	••	21.8	17	-2.1	5	26	9	••	10	23	••
Ranfurly 09/1981	427	12.3	1.1	9.2 6.7	••	21.8 19.4	19 19	-0.5	2	11	6	••	4	9	••
Herbert Forest 09/1981	61	14.7	2.2	8.5	+0.5	20.8		-6.0	1	17	7	::	5	12	136
Invermay, Taieri 09/1981	30	12.9	4.7	8.8		20.8 18.2	9	-3.0 -1.9	2	24	10	-27	4	12	
Berwick Forest 09/1981	18	13.0	2.9	8.0 8.0	-0.3	18.2	. 9	-1.9 -3.2	1	42	20	. ::	7	12	121
Ophir 09/1981	305	13.5	0.3	6.9	-0.5	19.8		-3.2 -8.6	1	104	18	+61	37	9	••
Nandi Airport, Fiji 09/1981	19	28.8	18.4	23.6	-1.0	31.4	19	-8.0	1 12	17 34	7	-11	5	15	
Raoul Island 06/1981	38	20.6	15.3	18.0	+0.7	23.2	15	14.9	20		4		22	22	209
Raoul Island 07/1981	38	19.0	13.1	16.1	-0.1	23.2	4	9.8	20 26	191 93	22	+41	29	21	138
Raoul Island 08/1981	38	19.2	13.8	16.5	+0.1	21.3	31	9.8 9.8	20 30	93 171	25 25	-70	16	9	165
Raoul Island 09/1981	38	18.9	13.3	16.1	-0.2	21.7	26	9.8 11.3	22	68	25 15	+34	47	6	163
Campbell Island 05/1981	15	8.8	4.8	6.8	+0.7	13.0		-1.3	19	08 58	15 27	- 49	20	29	158
Campbell Island 06/1981	15	7.5	4.7	6.1	+1.3	10.1		-2.1	19	113	21	$-82 \\ -17$	9	11	18
Campbell Island 07/1981	15	7.4	4.0	5.7	+1.1	10.4		-4.9	4	93	31	-17 -14	36 13	15	2
Campbell Island 08/1981	15	6.9	3.1	5.0	+0.0	11.6	-	-2.5	22	93 78	22	-14 - 31		17	7
· · · · · · · · · · · · · · · · · · ·			0.1	2.0		11.0	10	4.5	44	/0	22	- 31	20	7	26

The "normal" refers to the present site of the instruments. Standard period for normals is 1941–1970. No normals are available for stations with only short records. *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.

General-October was cool and dry for most of the North Island and milder and wetter than normal in the South Island.

There was a slightly higher incidence of strong winds than usual in the south of the country but winds were otherwise close to normal for October.

Extremely high north-westerly winds affected inland parts of the South Island from Te Anau to the McKenzie Basin during the 3rd and 4th. Severe damage to buildings was reported throughout the area and one person was killed by flying debris in Twizel. Plantations were extensively damaged. The following maximum gusts were recorded at anemometer sites in the area (previous or existing record gusts follow in parentheses):

Queenstown 70 kts (58 kts),

Aviemore 104 kts (117 kts), Mt. John 113 kts (135 kts), Lake Pukaki 62 kts (62 kts), and

Lauder 100 kts estimate—a new installation.

Farmers throughout the country report spring growth to be progressing well although cool night time temperatures and late frosts have retarded growth in some northern areas. Frosts during the last few days of the month damaged kiwifruit crops around Te Puke and walnut crops around Taumarunui. Hail on the 30th damaged some stonefruit crops around Christchurch.

Rainfall-The North Island had below normal rainfall in all areas except Gisborne, Bay of Plenty, Wairarapa, and Wellington. Parts of the Northland, Auckland, and Taupo districts had less than half their normal October rainfalls while the Wairarapa region had close to twice normal rainfall.

In the South Island rainfalls were mainly close to or above normal for October. A notably wet region was the area from Oamar to Christchurch which had close to 200 percent of normal rainfall. Southern Westland and Central Otago had slightly less than normal rainfall.

Temperature-North Island temperatures were up to 1.0°C above normal in central and eastern areas and up to 1.0°C below normal in the north and south. The Nelson Lakes, inland Canterbury and Oamaru areas of the South Island had mean temperatures more than 1.0°C above normal while other areas were up to 1.0°C above normal.

There were several very warm spells during periods of north-westerly winds this month. During the period between the 1st and 4th maximum temperatures in eastern and south-eastern areas were above 20°C with Gisborne, Napier, Timaru, Christchurch, Oamaru, Dunedin, and Kaikoura recording temperatures above 25°C at times. Minimum temperatures were as much as 15°C above the average minimum for the month in some areas.

During the 7th and 8th temperatures in the same areas were again above 20°C, although minimum temperatures were not as high as those on the previous occasion.

Warm temperatures were recorded over most of the country during the 21st and 22nd when both maximum and minimum temperatures were 3-8°C above average.

There were two very col periods, the first between the 17th and 18th and the second at the end of the month when severe late frosts were experienced in many parts of the country.

Sunshine—Sunshine totals were close to, or above normal for the month over most of the country. The North Island had above normal sunshine everywhere except in southern areas where sunshine totals were about 10 hours below average. In the South Island the Marlborough, Canterbury, and Otago areas had between 10 and 30 hours less sunshine than usual while all other areas were sunnier than average.

THE WEATHER SEQUENCE, OCTOBER 1981

1-7 October

An extensive anticyclone passed to the north of New Zealand during the first 4 days of October bringing fine weather to the North Island and northern South Island. At the same time there was a strong west or north-westerly flow over the south of the country and this brought rain to many parts of the South Island, particularly southern and western areas. A trough of low pressure crossed the country between the 5th and 7th. Rain fell over most of New Zealand on the 5th and in central and western districts on the 6th and 7th with the passage of frontal systems within this trough.

8-14 October

By the beginning of the second week in October the trough lay to the east of New Zealand and an anticyclone covered the North Island. A second trough formed in the south Tasman Sea and an associated north-westerly flow brought rain to western areas of the South Island. This trough crossed the country rapidly and by the 9th the anticyclone to the north-west began to form a ridge extending southward, bringing fine weather to all districts. A cold front moved onto the South Island on the 11th and crossed the country on the 12th, bringing rain to most areas as it passed. The anticyclone which had covered New Zealand earlier in the week remained centred near Norfolk Island during the passage of the front, then again extended south and eastward, forming centres to the east and west of the country during the last 2 days of the week.

15-21 October

A depression developed within a trough close to Tasmania on the 15th and although the anticyclone still covered the North Island a disturbed south-westerly flow spread onto the South Island, with rain in southern and western areas. Rain became much more general as the trough moved onto the country on the 16th, but became restricted to the North Island from the 17th. A large anticyclone developed near Tasmania on the 16th and moved eastward to cover the South Island by the 19th. It continued to lie over New Zealand until the end of the week, with generally fine weather.

22-31 October

As the anticyclone moved off New Zealand on the 22nd a small depression developed in the Tasman Sea with a strong northerly flow onto the country. Rain fell in western areas of both Islands but became widespread as a front crossed the country on the 23rd. A small depression developed near Lord Howe Island and deepened as it moved eastward during the 24th. By the 25th it had moved south to lie over the North Island. Rain fell over most of the North Island and northern South Island on the 24th and 25th. As the depression moved east rain cleared from all except eastern areas of both Islands. An extensive anticyclone developed in the Tasman Sea and as this moved over New Zealand centres developed to the north-west and southeast, with fine weather over the whole country. The centre to the south-east weakened on the 30th and a cold front crossed the South Island, bringing rain to southern and western districts. Fine, warm weather continued in most other districts to the end of the month.

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

J. S. HICKMAN, Director.

CORRIGENDUM

CLIMATOLOGICAL TABLE FOR NOVEMBER 1981

In the supplement with the above heading published in the New Zealand Gazette, 27 November 1981, No. 142, p. 3617, please read, "Climatological Table for September 1981".

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