

Errata and updated statistics for the 2012 Annual Climate Summary

Issued: 30 April 2013

Every year, an annual climate summary and a table of annual statistics are provided by NIWA, usually within the first two weeks of January. This summary is based on data available at the time, and often includes preliminary (real-time) annual climate statistics which are as yet not fully quality checked.

Each year during April, the annual statistics from the calendar year prior are updated, including both automated and manual climate station data. The purpose of the update is two-fold; to enable manual climate data to be incorporated, since manual stations typically take 1-2 months for data to be received and entered into the National Climate Database; and to log errata found in subsequent quality checks performed in the National Climate Database, or site visits undertaken in January and February. This update was based on available data as at 24 April 2013, and was issued on 30 April 2013.

Errata and notes

1. This update of 2012 rainfall data at a station requires there to be 12 months (a complete set) of monthly rainfall data, for station inclusion. Preliminary data for Lower Retaruke and Dunedin Aero AWS were included in the annual statistics provided on 10 January 2013, but there were missing rainfall data at these sites and so these stations are not updated here.
2. Following the update of station data contained within the Water Resources Archive, the rankings for wettest sites in New Zealand for 2012 have changed. The wettest four locations are now: Cropp River at Waterfall (9630 mm), Tuke River at Tuke Hut (8870 mm), Cropp River at Cropp Hut (8608 mm), and Doon River (7410 mm).
3. This update of 2012 sunshine data at a station requires there to be 12 months (a complete set) of monthly sunshine data, for station inclusion. Preliminary data for Waipawa EWS was included in the annual statistics provided on 10 January 2013, but there were missing sunshine data at this site so this station is not updated here.
4. Offshore and outlying island stations were not included in this update.
5. Data were sourced from the National Climate Database (<http://cliflo.niwa.co.nz>), with the exception of 22 rainfall stations contained within NIWA's Water Resources Archive which have a complete set of 2012 data. These are marked with an asterisk (*) in the annual rainfall table here.

Location	Mean temp (°C)				
WHANGAREI AERO AWS ¹	15.8	WHENUAPAI AWS	14.6	HAMILTON AWS	13.4
KAITAIA AERO EWS	15.7	WAIHEKE ISLAND, AWAROA	14.6	WELLINGTON AERO	13.4
CAPE REINGA AWS	15.5	WHITIANGA AERO AWS	14.5	MASTERTON, TE ORE ORE	13.4
PURERUA AWS (BAY OF ISLANDS)	15.5	PAEROA AWS	14.4	CASTLEPOINT AWS	13.2
WHANGAPARAOA AWS	15.5	WARKWORTH EWS	14.3	NELSON AWS	13.2
KAITAIA EWS	15.4	WAIROA, NORTH CLYDE EWS	14.3	OHAKEA AWS	13.2
KAITAIA OBSERVATORY	15.4	GISBORNE AWS	14.2	PALMERSTON NORTH AWS	13.1
AUCKLAND AERO	15.4	NAPIER, NELSON PARK	14.2	TAKAKA EWS	13.1
PORT TAHAROA AWS	15.3	TOENEPI EWS	14.0	MATAMATA, HINUERA EWS	13.0
AUCKLAND, MANGERE EWS	15.2	TE PUKE EWS	14.0	WAIONE RAWES	13.0
AUCKLAND, MUSICK POINT	15.2	WHAKATANE AERO AWS	14.0	NELSON AERO	13.0
AUCKLAND, HENDERSON	15.2	NGAWI AWS	14.0	WHAKATU EWS	13.0
DARGAVILLE 2 EWS	15.1	NAPIER AERO AWS	13.9	TE KUITI EWS	12.9
TAURANGA AERO AWS	15.1	KAWERAU AWS	13.9	LEVIN AWS	12.9
KERIKERI AERODROME AWS	14.9	AUCKLAND, ALBANY	13.8	WESTPORT AERO AWS	12.9
HICKS BAY AWS	14.9	WANGANUI 2 AWS	13.8	PARAPARAUMU AERO	12.9
FIRTH OF THAMES EWS	14.7	WHATAWHATA 2 EWS	13.7	BLenheim RESEARCH EWS	12.9
		NEW PLYMOUTH AWS	13.5	PARAPARAUMU AERO AWS	12.8
		WANGANUI, SPRIGGENS PARK	13.5	PALMERSTON NORTH EWS	12.8

¹ AWS = Automatic Weather Station (operated by MetService)

EWS = Electronic Weather Station (operated by NIWA)

CAPE CAMPBELL AWS	12.8	APPLEBY 2 EWS	12.0	CHRISTCHURCH AERO	11.3
WELLINGTON, KELBURN AWS	12.7	AKITIO EWS	12.0	LE BONS BAY AWS	11.2
GREYMOOUTH AERO	12.7	CHRISTCHURCH, GARDENS	12.0	TAKAPAU PLAINS AWS	11.1
MOTUEKA, RIWAKA EWS	12.6	CHRISTCHURCH, KYLE ST EWS	12.0	DUNEDIN, MUSSELBURGH EWS	11.1
AKAROA EWS	12.6	CHRISTCHURCH, NEW BRIGHTON	12.0	CULVERDEN AWS	11.0
HAMILTON, RUAKURA 2 EWS	12.5	MASTERTON AERO AWS	12.0	QUEENSTOWN	11.0
LYTTELTON HARBOUR	12.5	HOKITIKA AWS	11.9	FRANZ JOSEF EWS	11.0
ROTORUA AERO AWS	12.3	CAPE TURNAGAIN AWS	11.8	TAIHAPE REC	10.9
MARTINBOROUGH EWS	12.3	HOKITIKA AERO	11.8	ALEXANDRA	10.8
HAWERA AWS	12.3	WALLACEVILLE EWS	11.7	MILFORD SOUND	10.8
GALATEA AWS	12.3	RANGIORA EWS	11.6	WINTON 2	10.8
BLENHEIM AERO AWS	12.3	OKARITO	11.6	ALEXANDRA CWS	10.6
GREYMOOUTH AERO EWS	12.2	AWATERE VALLEY, DASHWOOD	11.6	ASHBURTON AERO AWS	10.6
WAIPAWA EWS	12.2	ASHBURTON COUNCIL	11.5	ORARI ESTATE	10.6
KAIKOURA AWS	12.2	DANNEVIRKE EWS	11.5	WANAKA AERO AWS	10.6
ARAPITO EWS	12.1	TAUPO AWS	11.4	CROMWELL EWS	10.6
DANNEVIRKE	12.1	TURANGI 2 EWS	11.4	TIWAI POINT EWS	10.5
TAUMARUNUI AWS	12.1	LINCOLN, BROADFIELD EWS	11.4	ORARI ESTATE CWS	10.4
WAIPARA WEST EWS	12.1	HAAST AWS	11.3	TIMARU EWS	10.4

TIMARU AERO AWS	10.3	MANAPOURI, WEST ARM JETTY	9.1
WINDSOR EWS	10.3	RANFURLY EWS	8.9
SOUTH WEST CAPE AWS	10.3	OPHIR 2	8.8
OAMARU AIRPORT AWS	10.3	WAIOURU TREATMENT PLANT	8.8
CLYDE 2 EWS	10.2	NASEBY FOREST 2	8.6
INVERCARGILL AERO AWS	10.2	MT COOK EWS	8.5
PALMERSTON	10.2	LAKE TEKAPO EWS	8.4
DUNEDIN AERO AWS	10.1	LAKE TEKAPO AIR SAFARIS	8.4
NUGGET POINT AWS	10.1	ARTHURS PASS EWS	7.6
GORE AWS	9.9	CAMPBELL ISLAND AWS	7.3
FAIRLIE AWS	9.8	MT RUAPEHU, CHATEAU EWS	6.7
QUEENSTOWN AERO AWS	9.7		
TARA HILLS AWS	9.5		
MIDDLEMARCH EWS	9.5		
MANAPOURI AERO AWS	9.5		
LAUDER EWS	9.5		
HANMER FOREST EWS	9.4		
LUMSDEN AWS	9.4		
PUKAKI AERODROME AWS	9.2		

Location	Rainfall (mm)				
CROPP RIVER AT WATERFALL*	9630	HAAST RIVER AT MOA CREEK*	3281	KERIKERI AERODROME AWS	1901
TUKE RIVER AT TUKE HUT*	8870	SECRETARY ISLAND AWS	3189	WHITIANGA AERO AWS	1818
CROPP RIVER AT CROPP HUT*	8608	ROSS	2977	TAURANGA-TAUPO RIVER AT KIKO ROAD*	1796
DOON RIVER*	7410	HAAST AWS	2906	TOLAGA BAY, MANGATUNA	1795
HAAST RIVER AT CRON CREEK*	6964	WAIPAOA RIVER AT MANGATU DIVIDE*	2886	REEFTON EWS	1743
IVORY RIVER AT RIPPLEROCK*	6618	OKARITO	2862	KAEO NORTHLAND	1715
HOKITIKA RIVER AT PRICES FLAT*	6163	MT RUAPEHU, CHATEAU EWS	2843	TE PUKE EWS	1664
HOKITIKA RIVER AT COLLIERS CREEK*	6065	NGAHERE RIVER AT NGAHERE HUT*	2687	TROUNSON CWS	1593
HOKITIKA RIVER AT RAPID CREEK*	6040	MAKOTUKU RIVER AT F TRIG*	2639	PURUKOHUKOHU AT NO 4*	1584
WAIHO RIVER AT DOUGLAS HUT*	5633	COBB RIVER AT TRILOBITE*	2636	PIKOWAI 2	1581
MILFORD SOUND	5457	WAIHI, WOODLANDS ROAD	2558	RAETIHI NO2	1535
RAKAIA RIVER AT LAKE RAMSEY*	4686	HOKITIKA AWS	2370	RUSSELL	1494
FRANZ JOSEF	4061	WHAKAMARAMA	2200	OTOROHANGA, GLENBROOK	1446
ARTHURS PASS EWS	3921	GREYMOUTH AERO EWS	2197	KAITAIA OBSERVATORY	1412
TAIPO RIVER*	3883	ARAPITO	2093	NEW PLYMOUTH AWS	1365
BUTCHERS CREEK AT BUTCHERS GULLY*	3751	WESTPORT AERO AWS	2033	SOUTH WEST CAPE AWS	1363
MT COOK EWS	3679	TAKAKA EWS	1994	TE POHUE, HAWKES BAY	1361
MANAPOURI, WEST ARM JETTY	3631	COROMANDEL, COROGLLEN	1946	KAITAIA EWS	1359
FRANZ JOSEF EWS	3606	TONGARIRO HATCHERY	1936	TURANGI 2 EWS	1357
MATHIAS RIVER AT NZDSA HUT*	3527	STRATFORD EWS	1928	EDGE CUMBE	1337
				ORARI GORGE	1330

MAROKOPA	1319	WELLINGTON, KELBURN AWS	1185	HUNTERVILLE 2	1020
WAIMARINO AT KEPA ROAD*	1319	CAPE REINGA AWS	1168	FIRTH OF THAMES EWS	1012
KAITAIA AERO EWS	1317	HAMILTON, RUAKURA 2 EWS	1155	AUCKLAND, MANGERE EWS	1011
RAWENE 2	1316	MONOWAI	1150	WHAKATANE AERO AWS	1008
MANGAKINO 2	1316	WAIROA, NORTH CLYDE EWS	1137	WINTON 2	991
TE KUITI EWS	1315	RAKAIA RIVER AT DRY ACHERON*	1135	CASTLEPOINT AWS	985
PAEROA AWS	1314	TAKAPAU PLAINS AWS	1135	HAWERA AWS	978
GISBORNE AWS	1309	LEIGH 2	1134	TIWAI POINT EWS	978
KAWHIA	1304	ARAMOANA	1111	BULLS, FOREST ROAD	976
WARKWORTH EWS	1295	INVERCARGILL AERO AWS	1099	HANMER FOREST EWS	972
AUCKLAND, HENDERSON RIVER PARK	1292	METHVEN	1076	DANNEVIRKE	970
HAMILTON AWS	1290	MOTUEKA, RIWAKA EWS	1069	APPLEBY 2 EWS	970
WAIHEKE ISLAND, AWAROA VALLEY	1267	AUCKLAND, ARDMORE	1069	MAPUA	962
MANGATAWHIRI	1260	AUCKLAND, NORTH SHORE ALBANY EWS	1067	DANNEVIRKE EWS	956
TE AROHA, BOWLER ROAD	1251	GWAVAS	1066	TAUPO AWS	938
OPOTIKI	1245	AUCKLAND AERO	1063	GORE AWS	938
TAURANGA AERO AWS	1202	GREYTOWN	1036	NELSON AERO	922
AKAROA EWS	1196	MANAPOURI AERO AWS	1031	LUMSDEN AWS	921
WALLACEVILLE EWS	1188	WHANGAPARAOA AWS	1028	LEVIN AWS	920
PORT TAHAROA AWS	1188	CAMPBELL ISLAND AWS	1027	PARAPARAUMU AERO AWS	901
		DARGAVILLE 2 EWS	1026	SANSON, NGAHERE	891

PALMERSTON NORTH AWS	889	WAIPAWA EWS	736	WINDSOR EWS	590
PARAPARAUMU EWS	876	QUEENSTOWN AERO AWS	735	LINCOLN, BROADFIELD EWS	582
KAIKOURA PLAINS	875	MARTINBOROUGH EWS	735	BLENHEIM RESEARCH EWS	580
ONGAONGA	869	LE BONS BAY AWS	728	RANGIORA EWS	544
NAPIER, NELSON PARK	854	PUKAKI AERODROME AWS	728	RANFURLY EWS	536
PALMERSTON NORTH EWS	850	CHEVIOT, MONTGOMERY ST	722	LAUDER EWS	525
TAIHAPE REC	849	NASEBY FOREST 2	721	TARA HILLS AWS	515
ORARI ESTATE	846	BALCLUTHA, FINEGAND	696	OPHIR 2	509
MASTERTON, TE ORE ORE CW	827	TIMARU EWS	693	WANAKA AERO AWS	496
ARROWTOWN NO2	801	HAWEA FLAT	689	MIDDLEMARCH EWS	480
HASTINGS AWS	800	BLENHEIM AERO AWS	667	CROMWELL EWS	455
ASHBURTON AERO AWS	798	LAKE TEKAPO, AIR SAFARIS	666	CLYDE 2 EWS	417
WELLINGTON AERO	798	WAIPARA WEST EWS	664	ALEXANDRA CWS	378
NUGGET POINT AWS	790	LAKE TEKAPO EWS	658		
WANGANUI,SPRIGGENS PARK	778	CHRISTCHURCH AERO	655		
AHURIRI RIVER AT SOUTH DIADEM*	775	BALCLUTHA, TELFORD EWS	651		
WANGANUI AWS	765	CHRISTCHURCH GARDENS	631		
ASHBURTON COUNCIL	756	TEKAPO AT LAKE TEKAPO*	609		
DUNEDIN, MUSSELBURGH EWS	745	OAMARU AIRPORT AWS	608		
NAPIER AERO AWS	741	TIMARU AERO AWS	606		
PALMERSTON	738	CHEVIOT EWS	605		

Location	Sunshine (hours)		
WHAKATANE	2602	TURANGI 2 EWS	2002
NELSON AERO	2584	HAMILTON RUAKURA 2 EWS	1974
LAKE TEKAPO EWS	2562	HOKITIKA AERO	1970
APPLEBY 2 EWS	2530	TAUMARUNUI AWS	1935
BLENHEIM RESEARCH EWS	2445	DANNEVIRKE EWS	1916
NEW PLYMOUTH AWS	2433	MARTINBOROUGH EWS	1904
RANGIORA EWS	2389	DARGAVILLE 2 EWS	1878
PARAPARAUMU AERO	2360	INVERCARGILL AERO	1874
TAKAKA EWS	2309	QUEENSTOWN	1860
TAURANGA AERO	2306	GREYMOUTH AERO	1848
ASHBURTON AERO AWS	2294	DUNEDIN, MUSSELBURGH EWS	1831
CHEVIOT EWS	2235	PALMERSTON NORTH EWS	1774
NAPIER, NELSON PARK	2194	REEFTON EWS	1740
AUCKLAND, NORTH SHORE ALBANY EWS	2190	WALLACEVILLE EWS	1726
KAWERAU AWS	2161	WINTON 2	1716
GREYMOUTH AERO EWS	2160	MIDDLEMARCH EWS	1712
CHRISTCHURCH AERO	2135	FRANZ JOSEF EWS	1700
BALCLUTHA, TELFORD EWS	2118	PALMERSTON	1684
KAITAIA EWS	2118	MT COOK EWS	1647
AKAROA EWS	2084		
KAITAIA OBSERVATORY	2062		
AUCKLAND, MANGERE EWS	2026		
TE KUITI EWS	2023		
WELLINGTON, KELBURN	2008		