

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 March, 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 1 March 2012, and was issued on 26 March 2012.

Errata and notes

1. A NIWA site visit to Leigh, North Auckland (a third party climate station) on 2 February 2012 revealed site exposure issues related to vegetation growth near the temperature screen. The temperature screen was moved to improve exposure at this visit, and a file note has been added in the National Climate Database (<http://cliflo.niwa.co.nz>) Sensor and Site History section for this station. Leigh was removed from its previous ranking of warmest location in 2011 in this update, and was removed from the January 2012 Climate Summary.
2. This update of 2011 mean annual temperature data at a station requires there to be 12 months (a complete set) of monthly mean temperature data, for station inclusion. A preliminary temperature datum for North Shore, Auckland, was included in the annual statistics provided on 12 January 2012, but there were missing temperature data at this site so this station is not updated here.
3. This update of 2011 rainfall data at a station requires there to be 12 months (a complete set) of monthly rainfall data, for station inclusion. Preliminary data for Pukekohe, Mahia, Awatere Valley, Mokohinau Island, and Kaikoura AWS were included in the annual statistics provided on 12 January 2012, but there were missing rainfall data at these sites and so these stations are not updated here. Kaikoura AWS has been replaced by Kaikoura Plains in this update.
4. Sunshine data at New Plymouth were provided in the annual statistics on 12 January 2012, based on data from station C94011 (New Plymouth Airport) over the period 1 January - 15 December 2011. The sunshine datum at New Plymouth presented here combines data from two sites; Station C94011 for the period 1 January - 15 December 2011 and station C94012 (New Plymouth AWS) for 16 - 31 December 2011, since 'overlap' analysis showed similar sunshine totals at the two stations.
5. Offshore and outlying island stations were not included in this update.
6. Data were sourced from the National Climate Database (<http://cliflo.niwa.co.nz>), with the exception of 22 rainfall stations contained within the Water Resources Archive which are PGSF funded and have a complete set of 2011 data. These are marked with an asterisk (*) in the annual rainfall table here.

Location	Sunshine (hours)
NELSON	2487
APPLEBY	2475
LAKE TEKAPO	2463
WHAKATANE	2380
BLENHEIM	2358
TAKAKA	2312
TAURANGA	2271
NAPIER	2238
PARAPARAUMU AIRPORT AWS	2237
ASHBURTON	2215
NEW PLYMOUTH*	2173
WAIPAWA	2169
KAITAIA	2160
RANGIORA	2158
KAITAIA OBSERVATORY	2121
AUCKLAND, NORTH SHORE	2085
ALEXANDRA	2055
PARAPARAUMU AIRPORT	2052
OHAKUNE	2046
CHRISTCHURCH	2029
BALCLUTHA	2019
AUCKLAND, MANGERE	2009
GREYMOUTH	1973
WELLINGTON	1955
HAMILTON	1941
DARGAVILLE	1935
TE KUITI	1926
MARTINBOROUGH	1917
ARAPITO	1898
DANNEVIRKE	1898
QUEENSTOWN	1861
STRATFORD	1836
HOKITIKA	1826
DUNEDIN	1804
PALMERSTON	1797
MIDDLEMARCH	1772
INVERCARGILL	1753
GREYMOUTH	1713
REEFTON	1685
INVERCARGILL	1649
WINTON	1647
WALLACEVILLE	1638
PALMERSTON NORTH	1632
MT COOK	1622
FRANZ JOSEF	1598

Location	Mean temperature (C)	Location	Mean temperature (C)
WHANGAREI	16.3	NEW PLYMOUTH	14.1
KAITAIA	16.2	NAPIER (AIRPORT)	14.0
PURERUA (BAY OF ISLANDS)	16.2	WAIONE	14.0
WHANGAPARAOA	16.1	OHAKEA	13.9
TIRI TIRI MATANGI	16.0	WELLINGTON (AIRPORT)	13.8
KERIKERI	16.0	TE KUITI	13.7
CAPE REINGA	16.0	PALMERSTON NORTH (AWS)	13.6
DARGAVILLE	15.9	NELSON (AWS)	13.6
AUCKLAND, MANGERE	15.9	CASTLEPOINT	13.5
AUCKLAND, AIRPORT	15.8	PALMERSTON NORTH	13.5
AUCKLAND, HENDERSON	15.7	LEVIN	13.5
PORT TAHAROA	15.7	HAMILTON (RUAKURA)	13.4
TAURANGA	15.7	PARAPARAUMU (AIRPORT)	13.4
HICKS BAY	15.5	NELSON (AIRPORT)	13.4
FIRTH OF THAMES	15.5	WHAKATU	13.3
WAIHEKE ISLAND, AWAROA	15.2	PARAPARAUMU (AERO AWS)	13.3
AUCKLAND, ALBANY	15.2	TAUMARUNUI	13.3
PAEROA	15.2	GALATEA	13.2
WHENUAPAI	15.1	BLENHEIM (RESEARCH)	13.2
WHITIANGA	15.1	TAKAKA	13.1
KAWERAU	14.9	WESTPORT	13.1
WHAKATANE	14.9	WELLINGTON (KELBURN)	13.1
GISBORNE	14.8	HAWERA	13.1
WARKWORTH	14.8	ROTORUA	13.0
TE PUKE	14.7	ARAPITO	13.0
OPOTIKI	14.6	DANNEVIRKE	13.0
NGAWI	14.5	LYTTELTON HARBOUR	13.0
NAPIER	14.5	MARTINBOROUGH	12.9
WANGANUI (SPRIGGENS PARK)	14.4	CAPE CAMPBELL	12.9
MAHIA	14.3	WAIPAWA	12.8
WHATAWHATA	14.3	AWATERE VALLEY	12.7
FAREWELL SPIT	14.3	MASTERTON	12.6
WAIROA	14.3	PAHIATUA	12.6
HASTINGS	14.2	KAIKOURA	12.5
WANGANUI (AWS)	14.2	BLENHEIM (AIRPORT)	12.5
HAMILTON (AWS)	14.1	WAIPARA WEST	12.4

Location	Mean temperature (C)	Location	Mean temperature (C)
WALLACEVILLE	12.4	ORARI ESTATE	10.9
AKITIO	12.3	MILFORD SOUND	10.9
APPLEBY	12.3	WINDSOR	10.8
REEFTON	12.3	TIWAI POINT	10.8
GREYMOUTH	12.2	CLYDE	10.7
STRATFORD	12.2	WINTON	10.6
TAUPO	12.2	TIMARU	10.6
MURCHISON	12.2	PALMERSTON	10.4
CAPE TURNAGAIN	12.2	DUNEDIN (AIRPORT)	10.3
CHRISTCHURCH (GARDENS)	12.2	FAIRLIE	10.3
HOKITIKA (AWS)	12.0	HANMER FOREST	10.2
HOKITIKA (AIRPORT)	12.0	SOUTHWEST CAPE	10.2
RANGIORA	12.0	NUGGET POINT	10.2
OKARITO	11.9	MIDDLEMARCH	10.1
TAKAPAU PLAINS	11.8	BALCLUTHA	10.1
CHRISTCHURCH (AIRPORT)	11.6	LAKE ROTOITI	10.1
LINCOLN	11.6	LAUDER	10.0
HAAST	11.5	GORE	10.0
CULVERDEN	11.4	INVERCARGILL	10.0
MOTU	11.4	QUEENSTOWN	9.9
LE BONS BAY	11.4	LUMSDEN	9.7
ALEXANDRA	11.4	PUKAKI	9.7
DUNEDIN (MUSSELBURGH)	11.4	MANAPOURI	9.7
CROMWELL	11.3	RANFURLY	9.4
TAIHAPE	11.3	MANAPOURI WEST ARM	9.4
OHAKUNE	11.3	OPHIR	9.4
FRANZ JOSEF	11.2	LAKE TEKAPO	9.3
WAIMATE	11.2	WAIOURU	9.3
WINCHMORE	11.1	MT COOK	9.1
ASHBURTON	11.0	NASEBY FOREST	8.8
OAMARU	11.0	ARTHURS PASS	8.2
WANAKA	10.9	MT RUAPEHU, CHATEAU	7.6

Location	Rainfall (mm)	Location	Rainfall (mm)
CROPP RIVER AT WATERFALL*	9493	TONGARIRO	2158
NORTH EGMONT	8236	WHANGANUI RIVER (TE PORERE)*	2127
HAAST RIVER AT CRON CREEK*	7198	WESTPORT	2078
IVORY RIVER*	6985	WHATAWHATA	2073
DOON *	6107	PORT OHOPE	2016
HOKITIKA RIVER AT COLLIERS CREEK*	6089	REEFTON	2007
WAIHO RIVER AT DOUGLAS HUT*	5835	KAIKOHE	2001
MILFORD SOUND	5553	ROTORUA	1997
WHATAROA*	5069	NEW PLYMOUTH	1955
FRANZ JOSEF	4784	OTOROHANGA	1894
RAKAIA AT LAKE RAMSAY*	4584	TAURANGA-TAUPO AT KIKO *	1846
ARTHURS PASS	4413	WHAKATANE	1837
HAAST RIVER AT MOA CREEK *	3690	OPOTIKI	1833
MT COOK	3660	WAIUKU	1778
BUTCHERS GULLY*	3482	RAETIHI	1743
TAKAKA	3009	TAURANGA	1698
ROSS	2996	TAUMARUNUI	1661
HAAST	2990	LAKE ROTOITI	1652
WHAKAMARAMA	2926	TOLAGA BAY	1647
MANAPOURI (WEST ARM)	2876	KAWHIA	1638
OKARITO	2807	AUCKLAND (HENDERSON)	1632
TONGARIRO AT WAIPAKIHI*	2803	RUSSELL	1630
WAIPAOA AT MANGATU DIVIDE*	2799	RAWENE	1624
MT RUAPEHU, CHATEAU	2766	WARKWORTH	1614
COBB RIVER AT TRILOBITE*	2727	TONGARIRO AT TURANGI*	1605
HOKITIKA	2642	WAIROA	1591
NGAHERE *	2626	WAIMARINO*	1578
MAKOTUKU*	2592	TAUMARUNUI	1558
WAIHI	2512	MANGATAWHIRI	1542
AHURIRI AT CASSINIA MORAINES *	2506	AUCKLAND (MANGERE)	1540
KERIKERI	2413	HAMILTON	1539
TE PUIA SPRINGS	2388	KAITAIA (OBSERVATORY)	1537
TE PUKE	2388	MURCHISON	1528
ARAPITO	2377	MANGAKINO	1514
COROMANDEL	2353	AUCKLAND (ALBANY)	1512
PIKOWAI	2349	ARDMORE	1506
MOTU	2340	MAROKOPA	1499
STRATFORD	2328	WHANGANUI RIVER (PIRIAKA)*	1496
WHITIANGA	2290	CAPE REINGA	1482
EDGE CUMBE	2282	HICKS BAY	1468
KAEO	2230	NELSON (AIRPORT)	1467
GREYMOOUTH	2230	WAIHEKE ISLAND, AWAROA	1461

Location	Rainfall (mm)	Location	Rainfall (mm)
ARAMOANA	1460	PARAPARAUMU (AIRPORT)	1034
HAMILTON (RUAKURA)	1396	TAPANUI	1027
MAPUA	1394	HANMER FOREST	1013
APPLEBY	1393	MONOWAI	1000
AUCKLAND (AIRPORT)	1390	NGAWI	982
PORT TAHAROA	1389	WELLINGTON (AIRPORT)	981
WELLINGTON (KELBURN)	1380	GORE	970
FAREWELL SPIT	1328	ONGAONGA	957
WHANGAREI	1311	HASTINGS	952
TE POHUE	1311	METHVEN	951
WHANGAPARAOA	1303	WAIPAWA	932
OHAKUNE	1297	WINTON	922
TE ANAU DOWNS	1296	NUGGET POINT	876
HUNTERVILLE	1293	MANAPOURI (AIRPORT)	854
TE AROHA	1264	MATUKITUKI WEST WANAKA*	841
DARGAVILLE	1260	LUMSDEN	832
INVERCARGILL	1235	MARTINBOROUGH	825
SANSON	1230	AKAROA	819
TAUPO	1225	KAIKOURA PLAINS	801
LEVIN	1224	WINCHMORE	784
WANGANUI (SPRIGGENS PARK)	1216	BLENHEIM (AIRPORT)	772
FIRTH OF THAMES	1214	OAMARU	761
BULLS	1202	ASHBURTON (AIRPORT)	756
WAIOURU	1183	NASEBY FOREST	713
GWAVAS	1180	ORARI ESTATE	708
PALMERSTON NORTH (AWS)	1180	CHEVIOT	704
TIRI TIRI	1176	BLENHEIM (RESEARCH)	699
WALLACEVILLE	1171	DUNEDIN (AIRPORT)	697
TAIHAPE	1157	BALCLUTHA	689
GISBORNE	1143	LE BONS BAY	679
FEILDING	1140	ARROWTOWN	677
TIWAI POINT	1119	HAWEA FLAT	672
PAEROA	1113	PUKAKI	664
PALMERSTON NORTH (EWS)	1096	DUNEDIN (MUSSELBURGH)	660
DANNEVIRKE	1087	CAPE CAMPBELL	642
GREYTOWN	1085	WAIPARA WEST	641
TAKAPAU PLAINS	1084	WAIMATE	634
NAPIER (NELSON PARK)	1081	LAUDER	632
WAIONE	1053	LINCOLN	630
CASTLEPOINT	1052	TIMARU (AIRPORT)	628
NAPIER (AIRPORT)	1047	QUEENSTOWN (AIRPORT)	621

Location	Rainfall (mm)
CHRISTCHURCH (AIRPORT)	621
CHRISTCHURCH (GARDENS)	620
PALMERSTON	603
OAMARU (AIRPORT)	586
CARDRONA	577
TARA HILLS	575
RANFURLY	562
LAKE TEKAPO	543
OPHIR	526
WANAKA	525
MIDDLEMARCH	501
RANGIORA	498
ALEXANDRA (PIONEER)	459
ALEXANDRA	420
CROMWELL	415
CLYDE	395