# Monthly Climate 

Taihoro Nukurangi Summary

# Extremely wet for northern South Island but dry for Otago; a very warm April for North Island. 

| Rainfall | More than double normal April rainfall recorded in upper South Island and Tauranga. <br> Well above normal rainfall (more than 150 percent of April normal) observed in parts <br> of Waikato, Bay of Plenty, and Manawatu. Above normal rainfall (120-150 percent of <br> April normal) recorded in Northland, Auckland, Kapiti coast, coastal Canterbury, and <br> Southland. In contrast, well below normal rainfall recorded in central Otago. |
| :---: | :--- |
| Soil moisture | As at 1 May, significant soil moisture deficits (more than 110 mm of deficit) were <br> evident in parts of Canterbury and central Otago. The rainfall during April recharged <br> soils throughout most of New Zealand. |
| Temperature | Mean temperatures were well above average (more than $1.2^{\circ} \mathrm{C}$ above the April <br> average) across most of the North Island. April temperatures were above average <br> (0.5 ${ }^{\circ} \mathrm{C}$ to $1.2^{\circ} \mathrm{C}$ above April average) across most of the South Island except for inland <br> Canterbury and Otago (near average April temperatures there). |
| Sunshine | A cloudy April for the lower North Island and northern and eastern South Island (75- <br> 90 percent of normal April sunshine hours). In contrast, a very sunny month for the |
| west coast of the South Island south of Franz Josef (more than 125 percent of normal |  |
| April sunshine). Near normal sunshine hours elsewhere. |  |

Click on the link to jump to the information you require:

## Overview <br> Rain <br> Temperature <br> Sunshine <br> April climate in the six main centres <br> Highlights and extreme events

## Overview

April 2013 was characterised by lower pressures than usual over New Zealand and to the south and west of the country, with higher pressures than normal to the east of the Chatham Islands. This meant more northwesterly winds than normal affected the country, resulting in a very warm month for many regions. Northwesterly fronts resulted in extremely heavy rainfall in the western Bay of Plenty on 20 April and in the Nelson and Tasman regions on 21 April.

More than double the normal April rainfall total was recorded in the north of the South Island. Motueka received 267 percent (over two-and-a-half-times) normal April rainfall, with almost half of this occurring in one day, on the 21st ( 116 mm ). Also, Tauranga received almost two-and-a-halftimes its normal rainfall for April ( $284 \mathrm{~mm}, 236$ percent of normal). Rainfall was also well above normal (above 150 percent of April normal) in parts of Waikato, Bay of Plenty, and Manawatu. Rainfall was above normal (120-150 percent of April normal) in parts of: Northland, Auckland, Kapiti Coast, Canterbury, and coastal Southland. In contrast, April rainfall was below normal ( 50 to 80 percent of normal April rainfall) in central Otago, with some locations recording well below normal rainfall (less than 50 percent of normal April rainfall). As at 1 May, significant soil moisture deficits (more than 110 mm of deficit) were evident in parts of Canterbury and central Otago. The rainfall during April recharged soils throughout most of New Zealand.

Mean temperatures for April were well above average (more than $1.2^{\circ} \mathrm{C}$ above the April average) across most of the North Island. Mean temperatures were above average (between $0.5^{\circ} \mathrm{C}$ and $1.2^{\circ} \mathrm{C}$ above the April average) for most of the South Island except for parts of inland Canterbury and Otago (near average temperatures for April there). It was the warmest April on record for Leigh, Masterton, Wairoa, and Ohakune. The nation-wide average temperature in April 2013 was $14.0^{\circ} \mathrm{C}$ ( $0.7^{\circ} \mathrm{C}$ above the 1971-2010 April average, using NIWA's seven-station temperature series which begins in 1909).

The dominance of low pressures during April resulted in a cloudy month for the lower North Island and northern and eastern South Island, with below normal sunshine hours for those areas ( 75 to 90 percent of normal April sunshine hours). In contrast, it was a very sunny month for the West Coast of the South Island, south of Franz Josef (more than 125 percent of normal April sunshine). Sunshine was near normal (within 10 percent of normal April sunshine hours) elsewhere. Of the available, regularly reporting sunshine observation sites, the sunniest four centres so far in 2013 (January to April) are: New Plymouth (1118 hours), Whakatane (1097 hours), Paraparaumu (1006 hours), and Lake Tekapo (1003 hours).

## Further Highlights:

- The highest temperature was $28.6^{\circ} \mathrm{C}$, recorded at Hastings on 3 April.
- The lowest temperature was $-5.9^{\circ} \mathrm{C}$, observed at Ranfurly on 10 April.
- The highest 1-day rainfall was 155 mm , recorded at Milford Sound on 26 April.
- The highest wind gust was $161 \mathrm{~km} / \mathrm{hr}$, at Cape Turnagain, on 29 April.
- In April 2013, Tauranga was the wettest, warmest, and sunniest, Dunedin was the coolest, and Christchurch was driest and cloudiest of the six main centres.
- Of the available, regularly reporting sunshine observation sites, the sunniest four centres so far in 2013 (January to April) are: New Plymouth (1118 hours), Whakatane (1097 hours), Paraparaumu (1006 hours), and Lake Tekapo (1003 hours).


## For further information, please contact:

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## Rainfall: Very wet for northern South Island, as well as Bay of Plenty, Waikato, and Manawatu. Below normal rainfall for central Otago.

More than double the normal April rainfall total was recorded in the north of the South Island. Motueka received 267 percent (over two-and-a-half-times) normal April rainfall, with almost half of this occurring in one day, on the 21st ( 116 mm ). Also, Tauranga received almost two-and-a-halftimes its normal rainfall for April ( $284 \mathrm{~mm}, 236$ percent of normal). Rainfall was also well above normal (above 150 percent of April normal) in parts of Waikato, Bay of Plenty, and Manawatu. Rainfall was above normal (120-150 percent of April normal) in parts of: Northland, Auckland, Kapiti Coast, Canterbury, and coastal Southland. In contrast, April rainfall was below normal ( 50 to 80 percent of normal April rainfall) in central Otago, with some locations recording well below normal rainfall (less than 50 percent of normal April rainfall).

As at 1 May, significant soil moisture deficits (more than 110 mm of deficit) were evident in parts of Canterbury and central Otago. The rainfall during April recharged soils throughout most of New Zealand.

## Record ${ }^{1}$ or near-record April rainfall totals were recorded at:

| Location | Rainfall <br> total (mm) | Percentage <br> of normal | Year <br> records <br> began | Comments |
| :--- | :--- | :--- | :--- | :--- |
| Low records or near-records |  |  |  |  |
| Waipara | 95 | 170 | 1973 | 4th-highest |
| South West Cape | 159 | 153 | 1991 | 3rd-highest |
| Tara Hills | 9 | 25 | 1949 | 4th-lowest |
| Campbell Island | 60 | 49 | 1992 | 2nd-lowest |

## Temperature: Well above average across North Island, and above average for most of the South Island except for inland Canterbury and Otago.

Mean temperatures for April were well above average (more than $1.2^{\circ} \mathrm{C}$ above the April average) across most of the North Island. Mean temperatures were above average (between $0.5^{\circ} \mathrm{C}$ and $1.2^{\circ} \mathrm{C}$ above the April average) for most of the South Island except for parts of inland Canterbury and Otago (near average mean April temperatures there). It was the warmest April on record for Leigh, Masterton, Wairoa, and Ohakune.

[^0]The nation-wide average temperature ${ }^{2}$ in April 2013 was $14.0^{\circ} \mathrm{C}\left(0.7^{\circ} \mathrm{C}\right.$ above the $1971-2010$ April average, using NIWA's seven-station temperature series which begins in 1909).

Many locations recorded record- or near-record-breaking high mean temperatures for April.

Record or near-record mean air temperatures for April were recorded at:

| Location | Mean air temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Departure from normal ( ${ }^{\circ} \mathrm{C}$ ) | Year records began | Comments |
| :---: | :---: | :---: | :---: | :---: |
| High records or near-records |  |  |  |  |
| Cape Reinga | 18.1 | 0.9 | 1951 | 4th-highest |
| Dargaville | 18.5 | 2.5 | 1943 | 3rd-highest |
| Whangarei | 18.0 | 1.4 | 1967 | 3rd-highest |
| Leigh | 19.3 | 1.9 | 1966 | Highest |
| Whangaparaoa | 18.2 | 1.2 | 1982 | 2nd-highest |
| Auckland (Whenuapai) | 16.5 | 1.0 | 1945 | Equal 4th-highest |
| Whitianga | 16.7 | 1.4 | 1962 | 4th-highest |
| Rotorua | 14.8 | 1.5 | 1964 | 3rd-highest |
| Motu | 13.0 | 1.9 | 1990 | 4th-highest |
| Auckland (Airport) | 17.7 | 1.4 | 1959 | 3rd-highest |
| Masterton | 14.8 | 2.1 | 1992 | Highest |
| Dannevirke | 14.7 | 1.9 | 1951 | 3rd-highest |
| Ngawi | 16.4 | 1.4 | 1972 | 4th-highest |
| Hicks Bay | 17.4 | 1.4 | 1969 | 3rd-highest |
| Hastings | 15.8 | 2.2 | 1965 | 3rd-highest |
| Waipawa | 14.7 | 1.8 | 1945 | 3rd-highest |
| Wairoa | 16.9 | 2.2 | 1964 | Highest |
| Mahia | 16.4 | 1.5 | 1990 | 2nd-highest |
| Paraparaumu | 15.7 | 2.2 | 1953 | 2nd-highest |
| Wellington (Airport) | 15.8 | 1.4 | 1962 | 2nd-highest |
| Stratford | 14.2 | 1.8 | 1960 | 2nd-highest |
| Hawera | 15.0 | 1.7 | 1977 | 3rd-highest |
| Ohakune | 13.3 | 2.5 | 1962 | Highest |
| Farewell Spit | 16.2 | 1.6 | 1971 | 2nd-highest |
| Secretary Island | 13.7 | 1.1 | 1985 | 4th-highest |
| Motueka | 14.1 | 1.4 | 1956 | 4th-highest |
| Nelson | 14.8 | 1.2 | 1943 | 4th-highest |
| Cheviot | 12.9 | 1.1 | 1982 | 3rd-highest |

[^1]Record or near-record mean maximum air temperatures for April were recorded at:

| Location | Mean maximum air temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Departure from normal ( ${ }^{\circ} \mathrm{C}$ ) | Year records began | Comments |
| :---: | :---: | :---: | :---: | :---: |
| HIgh records or near-records |  |  |  |  |
| Kaitaia | 21.8 | 0.8 | 1985 | 4th-highest |
| Kerikeri | 22.1 | 1.1 | 1981 | 3rd-highest |
| Kaikohe | 20.9 | 1.6 | 1973 | 4th-highest |
| Dargaville | 22.5 | 2.7 | 1943 | 3rd-highest |
| Whangarei | 22.4 | 1.9 | 1967 | 2nd-highest |
| Leigh | 23.5 | 3.4 | 1966 | Highest |
| Whangaparaoa | 21.4 | 1.6 | 1982 | 2nd-highest |
| Auckland (Whenuapai) | 21.3 | 1.2 | 1945 | 4th-highest |
| Tauranga | 21.5 | 1.5 | 1913 | 4th-highest |
| Whakatane | 21.7 | 1.7 | 1974 | 3rd-highest |
| Motu | 18.6 | 2.5 | 1990 | Highest |
| Auckland (Airport) | 21.2 | 1.2 | 1959 | 4th-highest |
| Hamilton (Ruakura) | 22.9 | 3.0 | 1906 | 3rd-highest |
| Hamilton (Airport) | 21.4 | 1.5 | 1946 | 2nd-highest |
| Hicks Bay | 21.0 | 1.8 | 1969 | 2nd-highest |
| Wairoa | 22.2 | 2.6 | 1964 | Highest |
| Mahia | 19.9 | 2.2 | 1990 | Highest |
| Stratford | 18.2 | 1.3 | 1960 | 2nd-highest |
| Hawera | 19.0 | 1.6 | 1977 | 2nd-highest |
| Ohakune | 18.1 | 2.3 | 1962 | 2nd-highest |

Record or near-record mean minimum air temperatures for April were recorded at:

| Location | Mean minimum air temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Departure from normal $\left({ }^{\circ} \mathrm{C}\right)$ | Year records began | Comments |
| :---: | :---: | :---: | :---: | :---: |
| High records or near-records |  |  |  |  |
| Dargaville | 14.6 | 2.5 | 1943 | 2nd-highest |
| Whitianga | 12.5 | 2.2 | 1962 | 3rd-highest |
| Auckland (Airport) | 14.1 | 1.4 | 1959 | 4th-highest |
| Masterton | 9.4 | 3.0 | 1992 | 2nd-highest |
| Dannevirke | 10.4 | 2.4 | 1951 | 4th-highest |
| Waione | 10.8 | 2.6 | 1991 | 2nd-highest |
| Martinborough | 9.3 | 1.9 | 1986 | 3rd-highest |
| Ngawi | 13.8 | 1.8 | 1972 | 2nd-highest |
| Paraparaumu | 12.4 | 3.2 | 1953 | 2nd-highest |
| Wellington (Airport) | 13.5 | 2.0 | 1962 | Highest |
| Stratford | 10.2 | 2.2 | 1960 | 3rd-highest |
| Ohakune | 8.6 | 2.8 | 1962 | 2nd-highest |
| Farewell Spit | 13.2 | 2.4 | 1971 | Highest |


| Secretary Island | 10.8 | 1.2 | 1985 | 3rd-highest |
| :--- | :---: | :---: | :---: | :--- |
| Cape Campbell | 12.7 | 1.1 | 1953 | 4th-highest |
| Waiau | 7.5 | 2.3 | 1974 | 2nd-highest |
| Cheviot | 7.6 | 2.3 | 1982 | Highest |
| Le Bons Bay | 10.0 | 1.0 | 1984 | 4th-highest |
| Orari Estate | 6.9 | 1.6 | 1972 | 3rd-highest |

Sunshine: A cloudy April for lower North Island and upper South Island, but very sunny for western South Island south of Franz Josef. Near normal elsewhere.

The dominance of low pressures during April resulted in a cloudy month for the lower North Island and upper and eastern South Island, with below normal sunshine hours for those areas ( 75 to 90 percent of normal April sunshine hours). In contrast, it was a very sunny month for the West Coast of the South Island, south of Franz Josef (more than 125 percent of normal April sunshine). Sunshine was near normal (within 10 percent of normal April sunshine hours) elsewhere.

Of the available, regularly reporting sunshine observation sites, the sunniest four centres so far in 2013 (January to April) are: New Plymouth (1118 hours), Whakatane (1097 hours), Paraparaumu (1006 hours), and Lake Tekapo (1003 hours).

Record or near-record April sunshine hours were recorded at:

| Location | Sunshine <br> hours | Percentage <br> of normal | Year <br> records <br> began | Comments |
| :--- | :--- | :--- | :--- | :--- |
| Low records or near-records |  |  |  |  |
| Martinborough | 127 | 78 | 1986 | 4th-lowest |
| Takaka | 144 | 78 | 1985 | 2nd-lowest |
| Blenheim | 153 | 80 | 1947 | 2nd-lowest |
| Cheviot | 141 | 85 | 1983 | 3rd-lowest |

## April climate in the six main centres

April rainfall was almost two-and-a-half-times normal in Tauranga, with 220 mm falling over the three days from the $19^{\text {th }}$ to the $21^{\text {st }}$. Rainfall was also well above normal for April in Hamilton, and above normal in Christchurch and Dunedin. All of the main centres except for Dunedin had well above average or above average mean temperatures in April. Sunshine was well below normal in Christchurch, below normal in Hamilton and Wellington, and near normal elsewhere.

In April 2013, Tauranga was the wettest, warmest, and sunniest, Dunedin was the coolest, and Christchurch was driest and cloudiest of the six main centres.

April 2013 main centre climate statistics:

| Temperature |  |  |  |
| :---: | :---: | :---: | :---: |
| Location | Mean temp. $\left({ }^{\circ} \mathrm{C}\right)$ | Departure from normal ( ${ }^{\circ} \mathrm{C}$ ) | Comments |
| Auckland ${ }^{\text {a }}$ | 16.7 | 0.5 | Above average |
| Tauranga ${ }^{\text {b }}$ | 17.3 | 1.7 | Well above average |
| Hamilton ${ }^{\text {c }}$ | 15.9 | 1.7 | Well above average |
| Wellington ${ }^{\text {d }}$ | 14.9 | 1.2 | Well above average |
| Christchurch ${ }^{\text {e }}$ | 12.7 | 0.8 | Above average |
| Dunedin ${ }^{\dagger}$ | 11.9 | 0.2 | Near average |
| Rainfall |  |  |  |
| Location | Rainfall (mm) | \% of normal | Comments |
| Auckland ${ }^{\text {a }}$ | 98 | 116\% | Near normal |
| Tauranga ${ }^{\text {b }}$ | 284 | 236\% | Well above normal |
| Hamilton ${ }^{\text {c }}$ | 140 | 160\% | Well above normal |
| Wellington ${ }^{\text {d }}$ | 87 | 103\% | Near normal |
| Christchurch ${ }^{\text {e }}$ | 59 | 134\% | Above normal |
| Dunedin ${ }^{\dagger}$ | 69 | 135\% | Above normal |
| Sunshine |  |  |  |
| Location | Sunshine (hours) | \% of normal | Comments |
| Auckland ${ }^{\text {a }}$ | 170 | 105\% | Near normal |
| Tauranga ${ }^{\text {b }}$ | 172 | 94\% | Near normal |
| Hamilton ${ }^{\text {g }}$ | 139 | 85\% | Below normal |
| Wellington ${ }^{\text {d }}$ | 127 | 79\% | Below normal |
| Christchurch ${ }^{\text {e }}$ | 116 | 71\% | Well below normal |
| Dunedin ${ }^{\text {f }}$ | 120 | 96\% | Near normal |

Highlights and extreme events

## Rain and slips

The highest 1-day rainfall was 155 mm , recorded at Milford Sound on 26 April.
On 9 April, thunderstorms brought flash floods to Hawke's Bay.

On 16 April, the occupants of a home in Grey Lynn, Auckland were evacuated after heavy rain caused subsidence, and the collapse of a balcony. Surface flooding was reported across Auckland.

On 17 April, a large slip closed Graham Valley Road, one of the access routes into Kahurangi National Park from the Motueka Valley Highway.

On 20 April, SH2 was closed by flooding near Waihi, and also affected by surface flooding in Tauranga. Waihi Beach Road was impassable and visitors had to be evacuated from two camping grounds. People were rescued from cars caught by floods and slips. Properties were also flooded in Katikati, Omokoroa, Mount Maunganui, and Te Puke, and local roads throughout the western Bay of Plenty were affected by flooding. Power was lost to homes in Otumoetai after a slip damaged a transformer. In Hamilton flash flooding closed streets, including SH1 at Lorne Street, and trapped cars in several suburbs. Many properties were inundated by flood waters.

On 21 April, torrential rain caused flooding in the Nelson and Tasman regions, particularly in Richmond and Stoke. This rainstorm was one of the most intense ever measured in New Zealand, and it was the most intense ever recorded in the Nelson and Tasman regions. The maximum 1-hour rainfall total during the storm was $101 \mathrm{~mm} / \mathrm{hr}$ in the Roding catchment near Richmond, a rainfall total which has a 500-year return period in this area. The most extreme 1-hour rainfall ever measured in New Zealand is 134 mm/hour in the Cropp River catchment on the west coast of the South Island, a catchment which holds many of New Zealand's extreme rainfall records. The highest 24-hour rainfall total recorded during the 21 April storm was 216 mm , recorded at the Tasman District Council office in Richmond. Slips closed SH60 over Takaka Hill, and many local roads were also closed by slips. Many properties were flooded, and cars abandoned after the occupants were rescued. All sports grounds were closed, and there was significant damage to the aquatic centre and Saxton Stadium. Rainfall data here were sourced from Tasman District Council.

On 30 April, heavy rain, accompanied by hail and thunderstorms, caused flooding in Canterbury, including Christchurch city where a central city mall was closed, after water flooded the centre and power was cut.

Record or near record April extreme 1-day rainfall totals were recorded at:

| Location | Extreme 1- <br> day rainfall <br> $(\mathrm{mm})$ | Date of <br> extreme <br> rainfall | Year <br> records <br> began | Comments |
| :--- | :---: | :--- | :--- | :--- |
| Kerikeri | 70 | 15th | 1981 | 3rd-highest |
| Kaikohe | 88 | 15 th | 1956 | 4th-highest |
| Hamilton | 69 | 21 st | 1935 | 4th-highest |
| Motueka | 116 | 21st | 1956 | 2nd-highest |
| Nelson | 122 | 21st | 1941 | Highest |
| South West Cape | 33 | 15th | 1991 | 2nd-highest |

## Wind

The highest wind gust was $161 \mathrm{~km} / \mathrm{hr}$, at Cape Turnagain, on 29 April.

On 4 April, the Hawke's Bay rescue helicopter was damaged by a wind gust while preparing to take off from the helipad at Wellington Hospital.

On 15 April, power was cut to customers in the Maungatapere area after wind brought down a tree on to power lines, and at nearby Poroti power was lost when the wind broke the cross-arm of a power pole. The strong winds uprooted trees throughout Northland and the upper North Island, and ripped two boats from their moorings at Paihia.

On 16 April, in high winds and rough seas a boat in Tauranga Harbour was ripped from its moorings and washed on to rocks beside The Strand.

On 20 April, a tornado brought down a tree and damaged property in Raglan.

Record or near record April extreme wind gusts were recorded at:

| Location | Extreme <br> wind gust <br> $(\mathbf{k m} / \mathrm{hr})$ | Date of <br> extreme <br> gust | Year <br> records <br> began | Comments |
| :--- | :--- | :--- | :--- | :--- |
| Cape Reinga | 130 | 15 th | 1974 | Equal 3rd-highest |
| Manapouri | 69 | $28 t h$ | 1991 | 4th-highest |
| Gore | 104 | 27 th | 1987 | Equal 2nd-highest |
| South West Cape | 152 | $28 t h$ | 1991 | Equal 3rd-highest |

## Temperatures

The highest temperature was $28.6^{\circ} \mathrm{C}$, recorded at Hastings on 3 April. The first few days of April were particularly warm, resulting in a number of maximum temperature records for April being broken at sites in the North Island.

The lowest temperature was $-5.9^{\circ} \mathrm{C}$, observed at Ranfurly on 10 April . This is the equal 3rd-lowest April temperature recorded in a group of surrounding stations, in records which began in 1975. The morning of 10 April was particularly cold at a number of locations in Otago and Southland.

Record or near-record daily maximum air temperatures for April were recorded at:

| Location | Extreme maximum $\left({ }^{\circ} \mathrm{C}\right)$ | Date of extreme temperature | Year records began | Comments |
| :---: | :---: | :---: | :---: | :---: |
| High records or near-records |  |  |  |  |
| Leigh | 27.7 | 1st | 1966 | Highest |
| Whangaparaoa | 24.8 | 1st | 1982 | 3rd-highest |
| Te Puke | 25.1 | 1st | 1973 | Equal 4th-highest |
| Motu | 22.8 | 2nd | 1990 | Highest |
| Whatawhata | 25.6 | 2nd | 1952 | 4th-highest |
| Hamilton (Ruakura) | 27.4 | 2nd | 1906 | Equal 3rd-highest |
| Hamilton (Airport) | 25.9 | 3 rd | 1946 | 2nd-highest |
| Takapau Plains | 25.2 | 3rd | 1962 | 3rd-highest |
| Dannevirke | 26.4 | 3rd | 1951 | 3rd-highest |
| Waione | 28.0 | 3rd | 1991 | Highest |
| Castlepoint | 25.2 | 3rd | 1972 | 4th-highest |
| Hicks Bay | 23.6 | 18th | 1969 | Equal 4th-highest |
| Hastings | 28.6 | 3 rd | 1965 | Highest |
| Waipawa | 27.9 | 3rd | 1945 | Equal highest |
| Wairoa | 27.9 | 1st | 1964 | 2nd-highest |
| Mahia | 25.0 | 1st | 1990 | 2nd-highest |
| Hawera | 22.8 | 3rd | 1977 | 4th-highest |
| Ohakune | 25.0 | 16th | 1962 | 2nd-highest |
| Wanganui | 27.4 | 16th | 1937 | Equal 2nd-highest |
| Takaka | 24.3 | 1st | 1978 | Equal 3rd-highest |

Record or near-record daily minimum air temperatures for April were recorded at:

| Location | Extreme <br> minimum <br> $\left({ }^{\circ} \mathrm{C}\right)$ | Date of <br> extreme <br> temperature | Year records <br> began | Comments |
| :--- | :--- | :--- | :--- | :--- |
| Low records or near-records |  |  |  |  |
| Taumarunui | -2.4 | 11th | 1947 | 3rd-lowest |
| Mahia | 5.4 | 11th | 1990 | 3rd-lowest |
| Ranfurly | -5.9 | 10th | 1975 | Equal 3rd-lowest |
| Dunedin (Airport) | -4.5 | 10th | 1962 | Equal 4th-lowest |
| Lumsden | -3.9 | 10th | 1982 | 3rd-lowest |
| Invercargill | -4.6 | 10th | 1905 | 2nd-lowest |
| Balclutha | -4.1 | 10th | 1964 | Lowest |
| Hlgh records or near-records |  |  |  |  |
| Taumarunui | 17.4 | 17th | 1947 | 3rd-highest |
| Masterton | 17.0 | 17th | 1992 | 2nd-highest |


| Martinborough | 17.6 | 30th | 1986 | Equal 2nd-highest |
| :--- | :---: | :---: | :---: | :--- |
| Mahia | 17.7 | 4th | 1990 | Equal highest |
| Paraparaumu | 17.6 | 17 th | 1972 | 3rd-highest |
| Levin | 18.0 | 17th | 1950 | 4th-highest |
| Wellington (Airport) | 17.7 | 30th | 1972 | Equal 4th-highest |
| Stratford | 16.4 | 17th | 1972 | 4th-highest |
| Kaikoura | 16.3 | 1st | 1972 | 4th-highest |
| Cheviot | 17.2 | 29th | 1982 | Equal highest |
| Waipara | 18.3 | 29th | 1973 | Equal 3rd-highest |
| Lumsden | 12.2 | 28 th | 1982 | Equal 3rd-highest |

## Lightning and hail

On 9 April, thunderstorms moved over Manawatu, Wanganui, Taranaki, Hawke's Bay and Bay of Plenty.

On 21 April, thunderstorms crossed the North Island, injuring two people in separate incidents in the Waikato. Both men were wearing gumboots and survived the lightning strikes. A passenger plane en route from Wellington to Auckland was struck by lightning as it approached Auckland Airport, but landed safely.

On 24 April, there was a spectacular lightning storm over Auckland.

## Cloud and fog

On 15 April, low cloud caused the cancellation of flights into and out of both Blenheim and Invercargill Airports.

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April 2013 rainfall totals, expressed as a difference from normal (\%).

Dark blue colours indicate more than 200 \% of April normal rainfall in the upper South Island. Well above normal rainfall (more than 150 \% of normal April rainfall) was recorded in parts of Bay of Plenty, Waikato, and Manawatu (lighter blue shades). Teal shades indicate above normal rainfall (120150 \% of normal April rainfall) for those areas as well as Auckland and Canterbury. Yellow and orange shades indicate below normal and well below normal rainfall totals for April in central Otago.


[^0]:    ${ }^{1}$ The rankings ( $1^{\text {st }}, 2^{\text {nd }}, 3^{\text {rd }}$.etc) in all Tables in this summary are relative to climate data from a group of nearby stations, some of which may no longer be operating. The current climate value is compared against all values from any member of the group, without any regard for homogeneity between one station's record, and another. This approach is used due to the practical limitations of performing homogeneity checks in real-time.

[^1]:    ${ }^{2}$ Interim monthly value

