



Frost and warm days, 1972–2016

Title

Frost and warm days, 1972–2016

Publisher

New Zealand's Environment Reporting Series: The Ministry for the Environment and Statistics
New Zealand

Description

The number of frost and warm days changes from year to year in response to climate variation, such as the warming pattern induced by El Niño. Climate models project we may experience fewer cold and more warm extremes in the future. Changes in the number of frost and warm days can affect agriculture, recreation, and our behaviour, for example, what we do to keep safe on icy roads or whether to use air conditioning to keep cool. A frost day is when the minimum temperature recorded is below 0 degrees Celsius. It refers to a temperature measured in an instrument screen 1.2 m above the ground rather than a 'ground frost'. We define a warm day as having a maximum recorded temperature above 25 degrees Celsius. The threshold of 25 degrees Celsius is chosen to represent days where action might be taken to keep cool (eg turn air conditioning on). This dataset gives the number of frost and warm days per month and calendar year for New Zealand, the North and South Islands, and all 30 sites. For frost days we have used calendar years. For warm days we have used growing season (July 1 – June 30 of the following year). More information on this dataset and how it relates to our environmental reporting indicators and topics can be found in the attached data quality pdf.

Source

NIWA

Rights

Creative Commons Attribution 4.0 New Zealand

Rights

Attribution 4.0 International

Rights

<http://creativecommons.org/licenses/by/4.0/>

Coverage

1972–2016: Auckland, Blenheim, Christchurch, Dannevirke, Dunedin, Gisborne, Gore, Hamilton, Hokitika, Invercargill, Kerikeri (since 1982), Lake Tekapo, Masterton (since 1993), Milford Sound, Napier, Nelson, New Plymouth, Queenstown, Reefton, Rotorua, Tara Hills, Taumarunui, Taupo (since 1976), Tauranga, Timaru, Waiouru, Wellington, Whanganui, Whangaparaoa (since 2000) and Whangarei.

Identifier

AC17/017

Type

Dataset

Language

eng-nz

Subject

temperature, climate, climate variability, Environmental reporting series: Our atmosphere and climate 2017