



## Annual rainfall, 1990

Title	Annual rainfall, 1990
Creator	Environmental Reporting, Ministry for the Environment and Statistics New Zealand
Date	2015-10-21
Description	"Annual rainfall is the total accumulated rain over one year. Rain is vital for life, including plant growth, drinking water, river ecosystem health, and sanitation. Floods and droughts affect our environment, economy, and recreational opportunities. This dataset shows annual average rainfall across New Zealand for 1990 as part of the data series for years 1972 to 2013. Annual rainfall is estimated from the daily rainfall estimates of the Virtual Climate Station Network (NIWA). This dataset relates to the "Annual average rainfall" measure on the Environmental Indicators, Te taiao Aotearoa website. Geometry: grid Unit: mm/yr"
Source	Source: National Institute for Water and Atmospheric Research Method: "Annual rainfall is the total accumulated rainfall over a year. It is estimated from the daily rainfall estimates of the Virtual Climate Station Network (NIWA). Virtual climate station estimates are produced every day, for every 25km <sup>2</sup> around the country. They use a statistical model to estimate the values between observations made at actual climate stations. This model uses information such as the pattern of annual rainfall to help with the estimations. (NIWA, Tait & Turner 2005; Tait et al 2006, Tait et al 2012). The New Zealand precipitation values in the Water Physical Stock – surface water components show the total precipitation. The maps in this case study highlight spatial and time variations. The accuracy of the data source is of high quality. References: NIWA (nd). Virtual climate station data and products. Accessed 3 June 2015 from <a href="http://www.niwa.co.nz">www.niwa.co.nz</a> . Tait, A, Henderson, R, Turner, R, & Zheng, XG (2006). Thin plate smoothing spline interpolation of daily rainfall for New Zealand using a climatological rainfall surface. <i>International Journal of Climatology</i> , 26(14), 2097–2115. Available from <a href="http://onlinelibrary.wiley.com">http://onlinelibrary.wiley.com</a> . Tait, A, Sturman, J, & Clark, M (2012). An assessment of the accuracy of interpolated daily rainfall for New Zealand. <i>Journal of Hydrology (New Zealand)</i> , 51(1), 25–44. Tait, A, & Turner, R (2005). Generating multiyear gridded daily rainfall over New Zealand. <i>Journal of Applied Meteorology</i> , 44(9), 1315–1323. Available from <a href="http://journals.ametsoc.org">http://journals.ametsoc.org</a> ."
Coverage	-47.5566512869 164.373835631 -33.826801176 -178.368273496
Identifier	<a href="https://data.mfe.govt.nz/layer/52972-annual-rainfall-1990/">https://data.mfe.govt.nz/layer/52972-annual-rainfall-1990/</a>
Language	eng
Subject	New Zealand
Subject	CLIMATE-AND-WEATHER
Subject	CLIMATE-AND-WEATHER-Rainfall
Subject	environment