

Information topic	Details
Indicator name	Monitoring sites exceeding the national environmental standard (eight-hour rolling average) for carbon monoxide
Domain and topic	Air Quality: Other air pollutants
Indicator definition and units	Number of monitored sites that exceeded the national environmental eight-hour rolling average standard for carbon monoxide (CO): exceedances occur when eight-hour rolling averages are greater than 10µg/m ³ (one exceedance per 12-month period allowed) (Ministry for the Environment and Stats NZ 2018).
Data source	Ministry for the Environment and Stats NZ. New Zealand's Environmental Reporting Series. URL: https://data.mfe.govt.nz/
Numerator	Monitoring sites exceeding the national environmental standard
Time period and time scale	Annual; from 1996 onwards
Spatial Coverage	All sites with valid data that were reported by the Ministry for the Environment and Stats NZ
Measures of frequency	Eight-hour rolling average concentrations, by monitoring station and year
Limitations of indicator	The population coverage of the monitoring site is unknown, meaning a national representative average cannot be applied.
Limitations of data source	<ul style="list-style-type: none"> - Monitoring information is only reported if the site achieves greater than 75% valid data collection and data were present for at least three years within the last ten years and at least one year within the last three years. - Some of the monitoring occurs at peak sites (sites expected to have high concentrations eg. where home heating emissions accumulate, close to high-volume road traffic or near industrial activities). These sites may therefore not be representative of the surrounding area.
Created by	Ministry for the Environment and Stats NZ
Related indicators	<ul style="list-style-type: none"> - Monitoring sites exceeding the national environmental standard (one-hour average) for sulphur dioxide - Monitoring sites exceeding the WHO daily guideline for sulphur dioxide - Monitoring sites exceeding the national environmental standard (one-hour average) for nitrogen dioxide - Monitoring sites exceeding the WHO annual average guideline for nitrogen dioxide

Metadata

For more information	Ministry for the Environment and Stats NZ. Environmental reporting on air. URL: https://www.mfe.govt.nz/air/state-of-our-air/environmental-reporting-air (accessed February 2020).
References	Ministry for the Environment and Stats NZ. 2018. <i>Our air 2018. Data to 2017</i> . Wellington: Ministry for the Environment.