

Information topic	Details
Indicator name	Carbon monoxide 8-hour maximum levels at monitored sites
Domain and topic	Air quality: Other air pollutants
Indicator definition and units	Number of monitored sites that exceeded the national short-term standard for carbon monoxide: exceedances occur when 8-hour rolling mean concentrations of carbon monoxide are above the national short-term standard of 10µg/m ³ (one exceedance per 12-month period allowed) (Ministry for the Environment 2014)
Data Source	Ministry for the Environment and Statistics New Zealand. New Zealand's Environmental Reporting Series: Environment Aotearoa. Available from www.mfe.govt.nz and www.stats.govt.nz
Numerator	Number of carbon monoxide monitored sites that exceeded the national short-term standard
Denominator	Number of carbon monoxide sites that were monitored
Spatial coverage	All sites that were reported by the Ministry for the Environment and Statistics New Zealand
Time period and time scale	Annual; from 2008 onwards
Measures of frequency	Number of exceedances of the national short-term standard, at monitored sites
Limitations of indicator	<ul style="list-style-type: none"> - Only sites that have carbon monoxide concentration monitored will be reported. - The population coverage of the monitoring sites is unknown, meaning a national representative average cannot be compiled.
Limitations of data source	<ul style="list-style-type: none"> - Not all sites are monitored. - Some of the monitoring occurs at peak sites (sites expected to have high concentrations e.g. where home heating emissions accumulate or close to high-volume road traffic). These sites may therefore not be representative of the surrounding area.
Created by	Ministry for the Environment and Statistics New Zealand
Related indicators	<ul style="list-style-type: none"> - Monitoring sites exceeding the WHO daily guideline for sulphur dioxide - Sulphur dioxide 1-hour maximum levels at monitored sites. - Annual average nitrogen dioxide concentration at monitoring sites - Nitrogen dioxide 1-hour maximum levels at monitoring stations

For more information	<p>Ministry for the Environment: http://www.mfe.govt.nz/air/specific-air-pollutants/carbon-monoxide</p> <p>Statistics New Zealand: http://www.stats.govt.nz/browse_for_stats/environment/environmental-reporting-series/environmental-indicators/Home/Air/carbon-monoxide.aspx</p>
References	<p>Ministry for the Environment. (2014). <i>2011 User's Guide to the revised National Environmental Standards for Air Quality. Updated 2014</i>. Wellington: Ministry for the Environment.</p>