

Information topic	Details
Indicator name	<b>Sulphur dioxide 1-hour maximum levels at monitored sites</b>
Domain and topic	Air quality: Other air pollutants
Indicator definition and units	Number of monitored sites that exceeded the national short-term standard for sulphur dioxide: exceedances occur when 1-hour mean concentrations of sulphur dioxide are above the national short-term standard of either 350µg/m <sup>3</sup> (nine exceedances per 12-month period allowed) or 570µg/m <sup>3</sup> (no exceedances 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 <a href="http://www.mfe.govt.nz">www.mfe.govt.nz</a> and <a href="http://www.stats.govt.nz">www.stats.govt.nz</a>
Numerator	Number of sulphur dioxide monitored sites that exceeded the national short-term standard
Denominator	Number of sulphur dioxide 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
Reporting variables	Number of exceedances of national short-term standard, at monitored sites
Limitations of indicator	<ul style="list-style-type: none"> <li>- Only sites that have sulphur dioxide concentration monitored will be reported.</li> <li>- The population coverage of the monitoring sites is unknown, meaning a national representative average cannot be compiled.</li> </ul>
Limitations of data source	<ul style="list-style-type: none"> <li>- Not all sites are monitored (monitoring information is only included if the site achieves greater than 75% valid data collection)</li> <li>- 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.</li> </ul>
Created by	Ministry for the Environment and Statistics New Zealand
Related indicators	<ul style="list-style-type: none"> <li>- Monitoring sites exceeding the WHO daily guideline for sulphur dioxide</li> <li>- Annual average nitrogen dioxide concentration at monitoring sites</li> </ul>

	<ul style="list-style-type: none"> <li>- Nitrogen dioxide 1-hour maximum levels at monitoring sites</li> <li>- Carbon monoxide 8-hour maximum levels at monitored sites</li> </ul>
For more information	<p>Ministry for the Environment:  <a href="http://www.mfe.govt.nz/air/specific-air-pollutants/sulphur-dioxide">http://www.mfe.govt.nz/air/specific-air-pollutants/sulphur-dioxide</a> (accessed March 2017)</p> <p>Statistics New Zealand:  <a href="http://www.stats.govt.nz/browse_for_stats/environment/environmental-reporting-series/environmental-indicators/Home/Air/sulphur-dioxide.aspx">http://www.stats.govt.nz/browse_for_stats/environment/environmental-reporting-series/environmental-indicators/Home/Air/sulphur-dioxide.aspx</a> (accessed March 2017)</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>