

Information topic	Details
Indicator names	1. Monitoring sites exceeding the national environmental standard (one-hour average) for nitrogen dioxide 2. Monitoring sites exceeding the WHO daily average guideline for nitrogen dioxide 3. Monitoring sites exceeding the WHO annual average guideline for nitrogen dioxide
Domain and topic	Air Quality: Other air pollutants
Indicator definition and units	1. Number of monitored sites that exceeded the national one-hour standard for nitrogen dioxide: exceedances occur when 1-hour average concentrations of nitrogen dioxide are greater than the national standard of 200µg/m³ 2. Number of monitored sites that exceeded the WHO daily average guideline for nitrogen dioxide: exceedances occur when annual average concentrations are greater than 25µg/m³ 3. Annual average concentrations (in µg/m³) of nitrogen dioxide at certain air quality monitoring stations.
Data source	Ministry for the Environment and Stats NZ. New Zealand's Environmental Reporting Series.
Numerator	Monitoring sites exceeding the national standard or WHO guidelines for nitrogen dioxide
Time period and time scale	Annual; from 2005 onwards
Spatial Coverage	All sites with valid data that were reported by the Ministry for the Environment and Stats NZ
Measures of frequency	1. Number of exceedances of national standard, by monitoring station and year 2. Number of exceedances of WHO daily guideline value, by station and year 3. Annual average concentrations of nitrogen dioxide, by 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	- Monitoring information is only reported if the site achieves greater than 75% valid data collection and data were present for at least three consecutive years. - Some of the monitoring occurs at peak sites (sites expected to

Metadata

	have high concentrations e.g. 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	- Monitoring sites exceeding the WHO daily guideline for sulphur dioxide - Monitoring sites exceeding the national environmental standard (one-hour average) for sulphur dioxide - Monitoring sites exceeding the WHO annual average guideline for nitrogen dioxide - Carbon monoxide 8-hour maximum levels at monitored sites
For more information	Ministry for the Environment and Stats NZ. Environmental reporting: Air. URL: https://environment.govt.nz/facts-and-science/air/ (accessed August 2022).
References	Ministry for the Environment and Stats NZ. 2021. <i>Our air 2021</i> . Wellington: Ministry for the Environment.