

Information topic	Details
Indicator name	Main types of heating used to heat dwellings
Domain and topic	Air Quality: Wood and coal fires
Indicator definition and units	Percentage of main types of heating used to heat dwellings. Main types of heating are classified as: no heating required, heat pump, electric heater, gas heater (fixed gas heater and portable gas heater), wood heater (wood burner and pellet fire), coal burner, and other types of heating. Main types of heating is a multiple response indicator.
Data source	New Zealand 2018 Census of Populations and Dwellings, Stats NZ. URL: https://www.stats.govt.nz/2018-census/
Numerator	Number of dwellings using main types of heating
Denominator	Total dwellings stated
Time period and time scale	Census; from 2018 onwards
Population Coverage	national
Measures of frequency	<ul style="list-style-type: none"> - Percentage of dwellings using main types of heating - Percentage of dwellings using main types of heating, by territorial authority
Confidence interval methodology/Logical bounds	<ul style="list-style-type: none"> - No confidence intervals have been used for this factsheet. - The 2018 Census suffered from implementation problems, and as a result, had a lower than expected response rate resulting in missing data. We therefore present the lower and upper logical bounds of what the percentage could be, allowing for the missing data. The lower bound is calculated as the count among the total value, whereas the upper bound is calculated as the sum of the count and unknowns among the total value.
Limitations of indicator	<ul style="list-style-type: none"> - Data does not show how often a certain heating type was used for heating. - Dwellings using more than one heating type have been counted in each category. Therefore, the total number of responses will be greater than the total number of dwellings.
Limitations of data source	<ul style="list-style-type: none"> - Stats NZ has noted that the 2018 Census had a lower than expected response rate resulting in the introduction of new methods to produce the dataset, including using data from alternative sources. Stats NZ and the 2018 Census External

Metadata

	<p>Data Quality Panel (EDQP) have produced a rating system to help the users understand the quality-related issues and impacts of the 2018 Census dataset.</p> <ul style="list-style-type: none"> - EHI have decided to update this factsheet based on the documentation relating to the 'Main types of heating and fuel types used to heat dwellings' indicator. The EDQP rating for this indicator was moderate and the response rate was 92.3%. Further information about the Stats NZ and EDQP documentation can be found in https://www.stats.govt.nz/2018-census/data-quality-for-2018-census - There was a change in the census question; therefore no comparison with previous Census years can be made.
Created by	Stats NZ
Related indicators	<ul style="list-style-type: none"> - Monitoring sites exceeding the WHO annual average guideline for PM2.5 - Monitoring sites exceeding the WHO daily guideline (24-hour average) for PM2.5 - Monitoring sites exceeding the national environmental standard (24-hour average) for PM10 - Monitoring sites exceeding the WHO annual average guideline for PM10
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.