

Information topic	Details
Indicator name	<b>Number and density of dairy cattle in New Zealand</b>
Domain and topic	Recreational water quality: Livestock
Indicator definition	Number and density (in number per square kilometre) of dairy cattle, by Territorial Authority (TA) and regional council
Data source	<ul style="list-style-type: none"> <li>- Statistics New Zealand. Agricultural Production Statistics. Available from <a href="https://www.stats.govt.nz/topics/agriculture">https://www.stats.govt.nz/topics/agriculture</a></li> <li>- Statistics New Zealand. Geographic boundary files. Available from <a href="http://stats.govt.nz/browse_for_stats/Maps_and_geography/Geographic-areas/digital-boundary-files.aspx">http://stats.govt.nz/browse_for_stats/Maps_and_geography/Geographic-areas/digital-boundary-files.aspx</a></li> </ul>
Numerator	(for dairy cattle density) Number of dairy cattle, by regional council and by TA
Denominator	(for dairy cattle density) Area (in square kilometres), by regional council and by TA
Methodology	Information on area (in square kilometres) of regional councils and TAs is taken from annual boundary files (i.e. ESRI geodatabase from Statistics New Zealand)
Time period and time scale	<ul style="list-style-type: none"> <li>- Annual Agricultural Production Survey: year to 30 June; from 2002 onwards</li> <li>- Agricultural Census: 5-yearly; from 2002 onwards</li> </ul>
Spatial coverage	national
Measures of frequency	<ul style="list-style-type: none"> <li>- Number of dairy cattle</li> <li>- Dairy cattle density, national average</li> <li>- Dairy cattle density, by regional council</li> <li>- Dairy cattle density, by TA</li> </ul>
Limitations of indicator	Livestock data for density calculations at TA level is available every 5 years with the Agricultural Census. The Annual Agricultural Production Survey allows livestock density calculations yearly only to regional council level.
Limitations of data source	<ul style="list-style-type: none"> <li>- Data based on the agricultural production survey can be subject to sample bias and sample error.</li> <li>- Population for the 2002 Agricultural Production Census and subsequent surveys differs from that of previous agricultural censuses and surveys. Figures from 2002 onwards may not be directly comparable with previous years.</li> </ul>
Created by	Statistics New Zealand
Related indicators	<ul style="list-style-type: none"> <li>- Number and density of livestock in New Zealand, by type</li> </ul>

<b>Information topic</b>	<b>Details</b>
	- Notifications of campylobacteriosis, cryptosporidiosis and giardiasis with recreational water as a risk factor
For more information	Statistics New Zealand: Agriculture <a href="https://www.stats.govt.nz/topics/agriculture">https://www.stats.govt.nz/topics/agriculture</a>