

CLIMATE CHANGE STATISTICS

AT STATISTICS CANADA

Looking for data on climate change?

Statistics Canada has a wealth of information, including data on greenhouse gas emissions, the drivers and impacts of climate change, and the efforts to mitigate and to adapt to its consequences.¹

Here are some examples of the data we publish.



EMISSIONS

Data on greenhouse gas (GHG) emissions and their human cause

Oil and gas extraction accounted for 22.4% of Canada's total GHG emissions in 2020, while households were responsible for 17.5%.²



MAIN DRIVERS

Data on key contributors to GHG emissions

In 2021, 23.9 million registered vehicles in Canada were fuelled by gasoline, up 5.2% from 2017.



IMPACTS

Data on the impacts of climate change on human and natural systems

In 2021, the western provinces experienced a significant drought, affecting the amount of crops that could be harvested and their quality. This contributed to a \$1.1 billion increase in crop insurance payments in 2022.



MITIGATION

Data on efforts to avoid the consequences of climate change

In 2020, businesses in Canada spent \$140 million on research and development of renewable energy resource technologies, up \$53 million from 2019.



ADAPTATION

Data on climate change adaptation measures

Percentage of Canadian towns and cities classed as green,* by province

2000 to 2004
(five-year average)

2018 to 2022
(five-year average)

Canada	82.4%	74.5%
Newfoundland and Labrador	94.3%	92.1%
Prince Edward Island	97.0%	94.6%
Nova Scotia	95.7%	94.2%
New Brunswick	95.4%	94.8%
Quebec	88.0%	82.5%
Ontario	85.2%	77.2%
Manitoba	73.7%	56.5%
Saskatchewan	53.2%	44.3%
Alberta	62.2%	50.6%
British Columbia	83.3%	72.9%

* The Normalized Difference Vegetation Index was used to measure the greenness of the land area of 1,016 cities and towns across Canada.

1. Categories are taken from the United Nations Economic Commission for Europe recommendations on climate change statistics.

2. These data, taken from Statistics Canada's physical flow accounts (PFA), differ from Canada's National Inventory Report (NIR). The PFA are based on the United Nations' System of Environmental-Economic Accounting, while the NIR, produced by Environment and Climate Change Canada, is Canada's official GHG inventory and is submitted annually to the United Nations Framework Convention on Climate Change.

Sources: Statistics Canada, Canadian System of Environmental-Economic Accounts, 2020, Vehicle Registrations, 2017 and 2021, Farm Cash Receipts, 2022, Energy Research and Development Expenditures by Area of Technology, 2019 and 2020, and Canadian System of Environmental-Economic Accounting - Ecosystem Accounting, 2002 and 2022.

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