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2008



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Environment Accounts and Statistics Division

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Note of appreciation

Canada owes the success of its statistical system to a long standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

User information

Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

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Who we are and what we do

Statistics Canada has been producing environment statistics since the mid-1970s. Since then, the environment statistics program has evolved to what is now known as Environment Accounts and Statistics Division (EASD), which is part of the broader System of National Accounts.

Our mandate is to collect, develop, compile, analyze and publish environmental data, emphasizing their integration with socio-economic data. Our objective is to provide users in government, business and the public at large with consistent, comprehensive, timely and relevant statistics with which to study the relationship between the environment and human activity.

We do this through four main activities:

- Integration of environmental data (both those collected within and outside of Statistics Canada) with socio-economic data in the form of consistent, comprehensive databases that employ a variety of organizational frameworks;
- Collection of environmental data directly from businesses, households and governments through on-going and occasional surveys;
- Dissemination of environmental statistics through a variety of catalogued products presenting descriptive analysis and statistics in print format and in electronic format; and
- Research and development related to environmental statistics.

Our statistical program comprises four major elements:

- Environmental accounts and indicators;
- Environmental surveys;
- Spatial data infrastructure;
- Statistical reference compendium (Human Activity and the Environment).

To contact us:

For general inquiries and questions about our products and services, please call the Information Officer (613-951-0297), fax (613-951-0634) or email environ@statcan.ca.

Mailing address:

Environment Accounts and Statistics Division

Statistics Canada

100 Tunney's Pasture Driveway

Ottawa, Ontario

K1A 0T6

Enviro quick facts

The following data, highlighting the interaction between humans and the environment, come from selected Environment Accounts and Statistics Division publications.

Human Activity and the Environment, 2006

- With so much distance to cover, Canada's road network comprises more than 1.4 million kilometres of highways and roads, enough to circle the Earth 35 times.
- With 20% of the world's fresh water resources and 7% of the world's total renewable water flow, water remains a precious part of Canada's natural wealth.

Canadian Environmental Sustainability Indicators, 2007

- Nationally, the ozone exposure indicator increased an average of 0.8% per year from 1990 to 2005.
- In 2005, Canada's total greenhouse gas emissions were estimated to be 747 megatonnes of carbon dioxide equivalent, up 25% from 1990.
- From 2003 to 2005, freshwater quality for the 359 monitoring sites in southern Canada was rated as "good" or "excellent" at 44% of the sites, "fair" at 33% and "marginal" or "poor" at 23%.

EnviroStats, Summer 2007

- Households across the country diverted nearly 3.6 million tonnes of waste materials for recycling in 2004, an increase of 65% compared to 2000.
- Use of recycling programs by Canadian households increased between 1994 and 2006 for all recyclable materials, at both the national and provincial level.

Households and the Environment Survey, 2006

- Regardless of their source of tap water, almost one-third of Canadian households drank primarily bottled water in 2006.
- The share of households using compact fluorescent light bulbs increased from 19% in 1994 to 56% in 2006.
- Particularly high rates of composting were reported by households in Prince Edward Island (91%) and Nova Scotia (69%).
- Thirty-two percent of Canadian households with a lawn or garden applied fertilizers, whereas 29% used pesticides.

Our accounts, surveys, and products

Environmental accounts

Natural Resource Stock Accounts

Definitions, data sources and methods — record no. 5114

The Natural Resource Stock Accounts measure quantities of natural resources *in situ* (crude oil and bitumen, natural gas, coal, metals, non-metallic minerals, timber and land) and the annual changes in these stocks due to natural processes and human activity.

These accounts, which are recorded using both physical and monetary units, form the basis of the estimates of Canada's natural resource wealth that are included in the National Balance Sheet Accounts. These selected natural resource assets represented close to 40% of Canada's national wealth in 2005.

The lengths of the time series presented in the natural resource stock accounts vary with the resource in question. They also depend upon whether the accounts are presented in physical or monetary units—many of the physical accounts begin in 1961, while the value estimates generally begin in the mid-1970s. These long time-series are available on CANSIM and through the System of National Accounts module of Statistics Canada's website.

Material and Energy Flows Accounts

Definitions, data sources and methods — record no. 5115

The purpose of these accounts is to estimate the flows of material and energy within the economy and between the economy and the environment. There are three main components of the Material and Energy Flows Accounts—greenhouse gas emissions, energy use and water use.

Each of these is available by industry, and each account can be integrated with the input-output tables for analytical purposes. Unlike the stock accounts, the Material and Energy Flow Accounts are produced only in physical units of measure. Data are available on CANSIM and through the System of National Accounts module of Statistics Canada's website.

It should be noted that the source data for the water use accounts is no longer available, and as such the last compilation of this account was for the reference year 1996. However, there are plans to re-establish the water use account using data from the new Industrial Water Survey.

Surveys

Waste Management Industry Survey: Business and Government Sectors

Definitions, data sources and methods — record nos. 2009 and 1736

Catalogue no. 16F0023X

The Waste Management Industry Survey: Business and Government Sectors gathers information on the financial characteristics and waste management activities undertaken by companies, local governments and other public waste management bodies. The results of these surveys provide a picture of physical characteristics of waste disposal and recycling as well as financial and employment features of businesses and local governments that provide waste management services.

Households and the Environment Survey

Definitions, data sources and methods — record no. 3881

Catalogue no. 11-526-X

The Households and the Environment Survey (HES) is conducted to measure household behaviours that may affect the environment. The major themes covered by the HES are those of water quality concerns, consumption and conservation of water, household energy use, use of gasoline-powered equipment, the application of pesticides and fertilizers on lawns and gardens, recycling, composting and waste disposal practices, impacts of air and water quality on households, and transportation decisions.

Environment Industry Survey: Business Sector

Definitions, data sources and methods — record no. 1209

Catalogue no. 16F0008X

This report presents estimates pertaining to businesses in the environment industry, obtained from the Environment Industry Survey as well as a number of other surveys carried out by Statistics Canada. The data from these sources have been combined in order to provide a more complete picture of businesses that produced environmental goods, provided environmental services or undertook environment-related construction projects in Canada.

Survey of Environmental Protection Expenditures

Definitions, data sources and methods — record no. 1903

Catalogue no. 16F0006X

This publication presents estimates from the Survey of Environmental Protection Expenditures (SEPE). The survey covers capital and operating expenditures by businesses in order to anticipate or to respond to environmental regulations, environmental conventions or voluntary agreements.

In 2002, SEPE introduced new material with the purpose of collecting data on industry's initiatives with respect to greenhouse gas emission reductions.

Industrial Water Survey

Definitions, data sources and methods — record no. 5120

Catalogue no. 16-401-X

This survey provides information on the volume of water brought into the facility, including information on the source, purpose, treatment and possible re-circulation of this water, by industrial users. As well, data is collected on the volumes of water discharged and treatment of this discharged water by industrial users. Cost information on the intake and discharge of water is also collected. This survey is being conducted to fulfill the requirements for producing national environmental indicators of water quality.

Analytical publications

Environment accounts and statistics technical paper series

Catalogue no. 16-001-M

The series covers environment accounts and indicators, environmental surveys, spatial environmental information and other research related to environmental statistics. The technical paper series is intended to stimulate discussion on a range of environmental topics.

EnviroStats

Catalogue no. 16-002-X

EnviroStats is a quarterly bulletin providing regular statistical analysis of environmental topics written for a broad audience. At the core of each issue is a feature article on a particular topic. Shorter articles highlight new statistical developments or introduce new concepts. “Updates” cover recent and upcoming events such as releases of new statistical products or overviews of surveys underway. Each issue also features a map illustrating and analyzing a current environmental topic.

Human Activity and the Environment

Catalogue no. 16-201-X

The goal of the annual Human Activity and the Environment (HAE) publication is to paint a statistical portrait of Canada’s environment with special emphasis on human activity and its relationship to natural systems—air, water, soil, plants and animals. Each annual issue of HAE begins with a feature article covering a current environmental issue of concern to Canadians. The in-depth article provides data and analysis which complement the information presented in the Annual statistics compendium that follows.

The Annual statistics compendium of the HAE report serves as a general reference for environmental statistics in Canada, pointing readers to available data on environmental-human interactions.

Canadian Environmental Sustainability Indicators

Definitions, data sources and methods — record nos. 5127, 5128 and 5129

Catalogue nos. 16-251-X, 16-252-X, 16-253-X, 16-254-X, 16-255-X and 16-256-X

The Canadian Environmental Sustainability Indicators (CESI) report addresses the need for clearly defined indicators that help measure progress on the provision of cleaner air, lower greenhouse gas emissions and cleaner water. This report is a collaboration between Environment Canada, Statistics Canada and Health Canada and Canadians.

The Socio-economic Information report (16-253-X) of the Canadian Environment Sustainability Indicators is intended to help users put the indicator results in context by providing information about some of the main forces driving the changes in the indicators. It draws on the social and economic information that Statistics Canada assembles through its many programs.

Related products

Selected publications from Environment Accounts and Statistics Division (EASD)

11-526-X	Households and the Environment
16-001-M	Environment Accounts and Statistics Technical Paper Series
16-002-X	EnviroStats
16-201-X	Human Activity and the Environment: Annual Statistics
16-251-X	Canadian Environmental Sustainability Indicators
16-252-X	Canadian Environmental Sustainability Indicators: Highlights
16-253-X	Canadian Environmental Sustainability Indicators: Socio-economic Information
16-254-X	Canadian Environmental Sustainability Indicators: Air Quality Indicators: Data Sources and Methods
16-255-X	Canadian Environmental Sustainability Indicators: Greenhouse Gas Emissions Indicator: Data Sources and Methods
16-256-X	Canadian Environmental Sustainability Indicators: Freshwater Quality Indicator: Data Sources and Methods
16-401-X	Industrial Water Use
16-505-G	Concepts, Sources and Methods of the Canadian System of Environmental and Resource Accounts
16F0002X	Waste Management Industry Survey: Government Sector, 1994
16F0003X	Waste Management Industry Survey: Business Sector, 1995
16F0006P	Environmental Protection Expenditures in the Business Sector, Preliminary Data
16F0006X	Environmental Protection Expenditures in the Business Sector
16F0007X	Environment Industry, 1995, Preliminary Data
16F0008X	Environment Industry: Business Sector
16F0009X	International Trade in Environmental Goods and Services: A Canada - U.S. Comparison
16F0021X	The St. Lawrence River Valley 1998 Ice Storm: Maps and Facts
16F0023X	Waste Management Industry Survey: Business and Government Sectors

16F0024X	Environmental Management and Technologies in the Business Sector
16F0025X	A Geographic Profile of Manure Production in Canada

Selected technical and analytical products from EASD

16-001-M2004001	Measuring Employment in the Environment Industry
16-001-M2005002	Greenhouse Gas Reduction Technologies: Industry Expenditures and Business Opportunities
16-001-M2007003	Behaviour Study on the Water Quality Index of the Canadian Council of Ministers of the Environment
16-001-M2007004	Environment Surveys of Establishments: The Canadian Experience
16-002-X200700110174	Recycling in Canada
16-002-X200700110177	Canada's growing population and its environmental influence, 1956 to 2006
16-002-X200700210335	A demand perspective on greenhouse gas emissions
16-002-X200700210336	Canadian lawns and gardens: Where are they the "greenest"?
16-002-X200700210337	Heavy fuel oil consumption in Canada
16-002-X200700210338	The cost of water in the manufacturing sector
16-002-X200700310454	Canada's natural resource wealth at a glance
16-002-X200700310455	Trip chaining while driving - comparing men's and women's behaviour
16-002-X200700310456	Blowing up a storm - snowblowers in Canada
16-002-X200700310457	Population change in Canada's drainage areas

Selected CANSIM tables from EASD

153-0001	Value of established natural gas reserves, annual
153-0002	Value of established crude oil reserves, annual
153-0003	Value of recoverable subbituminous coal and lignite reserves, annual
153-0004	Value of recoverable bituminous coal reserves, annual
153-0005	Value of established crude bitumen reserves, annual
153-0006	Value of proven and probable potash reserves, annual

153-0007	Value of proven and probable gold reserves from gold mines, annual
153-0008	Value of proven and probable iron reserves, annual
153-0010	Value of proven and probable reserves of miscellaneous minerals, annual
153-0011	Value of timber stocks (methods I and II), annual
153-0012	Established crude bitumen reserves, annual
153-0013	Established crude oil reserves, annual
153-0014	Established natural gas reserves, annual
153-0015	Established reserves of natural gas liquids, annual
153-0016	Established sulphur reserves, annual
153-0017	Recoverable reserves of bituminous coal, annual
153-0018	Recoverable subbituminous coal and lignite reserves, annual
153-0019	Recoverable uranium reserves, annual
153-0020	Proven and probable copper reserves, annual
153-0021	Proven and probable gold reserves from gold mines, annual
153-0022	Proven and probable iron reserves, annual
153-0023	Proven and probable lead reserves, annual
153-0024	Proven and probable molybdenum reserves, annual
153-0025	Proven and probable nickel reserves, annual
153-0026	Proven and probable potash reserves, annual
153-0027	Proven and probable silver reserves, annual
153-0028	Proven and probable zinc reserves, annual
153-0029	Timber assets (area), annual
153-0030	Timber assets (volume), annual
153-0031	Direct and indirect energy use, by industry, L-level aggregation, annual
153-0032	Energy use, by sector, annual
153-0033	Direct and indirect greenhouse gas emissions (carbon dioxide equivalents), by industry, L-level aggregation, annual
153-0034	Greenhouse gas emissions (carbon dioxide equivalents), by sector, annual
153-0035	Land cover by category, Canada, major drainage areas and sub-drainage areas

153-0036	Selected population characteristics, Canada, major drainage areas and sub-drainage areas, every 5 years
153-0037	Selected population characteristics, Canada, provinces and territories, every 5 years
153-0038	Selected agricultural activities, all major drainage areas and sub-drainage areas with agriculture, every 5 years
153-0039	Selected agricultural activities, provinces, every 5 years
153-0040	Manure production, Canada, major drainage areas and sub-drainage areas, every 5 years
153-0041	Disposal of waste, by source, Canada, provinces and territories, bi-annual
153-0042	Materials prepared for recycling, by source, Canada, provinces and territories, bi-annual
153-0043	Materials prepared for recycling, by type, Canada, provinces and territories, bi-annual
153-0044	Business sector characteristics of the waste management industry, Canada, provinces and territories, bi-annual
153-0045	Local government characteristics of the waste management industry, Canada, provinces and territories, bi-annual

Selected accounts, indicators and surveys from EASD

1209	Environment Industry Survey
1736	Waste Management Industry Survey: Government Sector
1903	Survey of Environmental Protection Expenditures
2009	Waste Management Industry Survey: Business Sector
3881	Households and the Environment Survey
5114	Canadian System of Environmental and Resource Accounts - Natural Resource Stock Accounts
5115	Canadian System of Environmental and Resource Accounts - Material and Energy Flow Accounts
5120	Industrial Water Survey
5127	Air Quality Indicators
5128	Freshwater Quality Indicator
5129	Greenhouse Gas Emissions Indicator
7525	Land Cover Statistics from Natural Resources Canada

Selected summary tables from Statistics Canada

- *Revenues from sales of environmental goods and services, by industry*
- *Revenues from sales of environmental goods and services, by province or territory*
- *Government pollution abatement and control expenditures*
- *Expenditures on environmental protection by industry and activity*
- *Waste disposal, by source, by province*