



Survey of Environmental Protection Expenditures, 2000

Confidential when completed

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

Français au verso

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Correct as required

Establishment name

Operating name

C / O

Address

City

Province/Territory

Postal code



Please read before completing

PURPOSE OF SURVEY

This survey provides a measure of the cost imposed on industry by environmental protection in Canada through Canadian and international environmental regulations, conventions and voluntary agreements. The survey also aims at identifying environmental management practices and technologies used in Canadian industry for the purpose of preventing or abating pollution.

The results of this survey will be published in the Statistics Canada publication *Environmental Protection Expenditures in the Business Sector, 2000*, Catalogue No. 16F0006XIE.

CONFIDENTIALITY

Statistics Canada is prohibited by law from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable respondent, without the previous written consent of that respondent. The data reported will be treated in strict confidence, used for statistical purposes and published in aggregate form only. The confidentiality provisions of the Statistics Act are not affected by either the Access to Information Act or any other legislation.

AUTHORITY

This survey is conducted under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19. **COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THE STATISTICS ACT.**

INQUIRIES

If you require assistance in completing this questionnaire or if you have any questions or comments regarding this survey, please contact:

**Operations and Integration Division
Statistics Canada
Ottawa, ON, Canada, K1A 0T6**

Telephone (toll-free): **1-800-255-7726 (within Canada)**
Fax: **1-800-755-5514 (within Canada)**
E-mail address : **enviro.oid.exp@statcan.ca**

The questionnaire is available in an electronic spreadsheet format. Please contact the Operations and Integration Division if you prefer to use this reporting option.

In all correspondence concerning this questionnaire, please quote the identification number that appears on the address label.

Important : Please read the Definitions and concepts on page 6 before answering. If your response for an item is zero, please write "0" in the corresponding box rather than leaving the cell blank.

Please return this questionnaire within 30 days of receipt.

If you are unable to do so, kindly inform the Operations and Integration Division of the expected completion date.

Statistics Canada use only

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1. Reporting period

Report must cover your fiscal year ending between **April 1, 2000** and **March 31, 2001**.

Day	Month	Year	Day	Month	Year
010	020	030	040	050	060

From _____ to _____

Please report in thousands of Canadian dollars

2. Pollution prevention, abatement and control expenditures. *If the expenditure is zero, please write "0" in the corresponding box.*

Include

- ◆ Expenditures for end-of-pipe pollution abatement and control facilities and equipment
- ◆ Expenditures for pollution prevention equipment or facilities integrated to a production process, that prevent or minimise the production of pollutants and waste
- ◆ Expenditures for equipment or facilities related to leak and spill prevention. They may include expenditures on the following: spill containments, dyke extension, accessories (valves, pumps) or emission detection equipment
- ◆ Expenditures for equipment or facilities used for conserving energy or water
- ◆ Expenditures for equipment or facilities associated with recirculation, recovery, reuse and recycling of materials or substances
- ◆ Pollution monitoring expenditures
- ◆ Expenditures for waste collection, disposal treatment and recycling done by your employees
- ◆ Purchases of waste and sewerage management services or any other purchase of services reported in Question 6

Exclude

- ◆ Expenditures specific to workers' health and safety
- ◆ Site reclamation and decommissioning expenditures (Question 4)
- ◆ Research and development expenditures associated with pollution prevention, abatement and control

Operating expenses \$ 000		Capital expenditures \$ 000		Total \$ 000
101	+	102	=	103

3. From the amount of capital expenditures reported in cell 102, what percentage was spent on preventing or abating each of the following?

Substances released to air		Substances released to surface waters		On-site contained solid/liquid waste/ underground injection		Noise, vibration or radiation		Other		
201 %	+	202 %	+	203 %	+	204 %	+	205 %	=	100%

4. Other environmental protection expenditures. *If the expenditure is zero, please write "0" in the corresponding box.*

Include

- ◆ Expenditures for site reclamation and decommissioning
- ◆ Expenditures for protection and restoration of wildlife and habitat
- ◆ Expenditures for environmental audits and assessments
- ◆ Expenditures for training on environmental matters
- ◆ Administration costs directly associated with environmental protection projects
- ◆ Other expenditures required to comply with environmental regulations, conventions, or voluntary agreements

Exclude

- ◆ Environment-related research and development expenditures

Operating expenses \$ 000		Capital expenditures \$ 000		Total \$ 000
401	+	402	=	403

Please report in thousands of Canadian dollars

5. Total expenditures on environmental protection. *If the expenditure is zero, please write "0" in the corresponding box.*

This question is the sum of Questions 2 and 4.

Operating expenses \$ 000	Capital expenditures \$ 000	Total \$ 000
410	411	412

6. Purchase of environmental services *If the expenditure is zero, please write "0" in the corresponding box.*

From the total environmental protection expenditures reported in Question 5, what were the expenditures by your establishment for environmental services purchased from a private contractor or a government?

a) **Waste management services or sewerage services performed by contractors or a government** \$ 000

301

Include

- ◆ Expenditures related to the use of a waste collection, disposal or treatment service, or an off-site recycling service provided by a private contractor or federal, provincial or local government body
- ◆ Expenditures related to the use of a sewerage service provided by a federal, provincial or local government body

Exclude

- ◆ Expenditures for waste management activities performed by your establishment's or company's employees (own-account work)
- ◆ Expenditures for recycling on-site

b) **Environment-related construction performed by contractors** \$ 000

502

Include

- ◆ Installation of new and used environment-related construction assets that have been capitalized
- ◆ Renovation, retrofit, refurbishing, overhauling and rehabilitation that have been capitalized
- ◆ Environment-related machinery and equipment that have been capitalized

Exclude

- ◆ Expenditures for own-account environmental construction work
- ◆ Non-capital repair and maintenance expenditures on environmental assets

c) **Non-capital repair and maintenance expenditures on environmental assets performed by contractors** \$ 000

512

d) **Other environmental services performed by contractors not already reported** \$ 000

501

Examples:

- ◆ Purchase of services for environmental monitoring
- ◆ Purchase of environmental assessment and audit services
- ◆ Purchase of services for site reclamation and decommissioning
- ◆ Purchase of services associated with wildlife and habitat protection and restoration

e) **Total environmental services performed by contractors** \$ 000

503

Include

- ◆ Sum of cells 301, 502, 512, and 501

Exclude

- ◆ Expenditures for environmental services provided by the employees of your establishment or your company

7. Pollution prevention methods

If you have prevented or reduced waste, pollutants or conserved resources in fiscal year 2000, please indicate how it was achieved by checking the appropriate box(es). Please include all projects regardless of whether they are required by regulation, convention or voluntary agreement.

Pollution prevention method	Yes	No
Product design or reformulation	810 <input type="checkbox"/>	<input type="checkbox"/>
Equipment or process modifications (integrated process)	830 <input type="checkbox"/>	<input type="checkbox"/>
Recirculation, on-site recycling, reuse or recovery of materials or substances ¹	850 <input type="checkbox"/>	<input type="checkbox"/>
Energy conservation	860 <input type="checkbox"/>	<input type="checkbox"/>
Materials or feedstock substitution, solvent reduction, elimination or substitution	870 <input type="checkbox"/>	<input type="checkbox"/>
Improved inventory management or purchasing techniques	875 <input type="checkbox"/>	<input type="checkbox"/>
Prevention of leaks and spills	880 <input type="checkbox"/>	<input type="checkbox"/>
Good operating practices or training	885 <input type="checkbox"/>	<input type="checkbox"/>
Other (please specify)	890 <input type="checkbox"/>	<input type="checkbox"/>

1. Recirculation, recovery, reuse or recycling: recirculation, reuse, recovery or recycling of water, materials or substances generated during production, **excluding materials transferred or recycled off-site.**
 Examples: vapour recovery, recovery of sludge, water recirculation, reuse of water for refrigeration condenser operation.

8. Environmental management practices

Please indicate the environmental management practices adopted by this establishment in fiscal year 2000 to avoid or minimise pollution, or to conserve resources.

	Yes	No
a) Did this establishment use an environmental management system?	951 <input type="checkbox"/>	<input type="checkbox"/>
b) Did this establishment use Life Cycle Management, Life Cycle Assessment or Design for Environment (DfE) for decision making?	965 <input type="checkbox"/>	<input type="checkbox"/>
c) Was this establishment ISO 14000 certified?	953 <input type="checkbox"/>	<input type="checkbox"/>
d) Did this establishment have a "green" procurement policy?	957 <input type="checkbox"/>	<input type="checkbox"/>
e) Did this establishment implement any environmental voluntary agreement, or did it participate in any voluntary environmental program? Examples include ARET (Accelerated Reduction/Elimination of Toxics) or Voluntary Challenge and Registry (VCR). If yes, please list programs, accords or agreements.	955 <input type="checkbox"/>	<input type="checkbox"/>

8. Environmental management practices - concluded

- | | Yes | No |
|--|------------------------------|--------------------------|
| f) Were any of the goods produced by this establishment certified by an environmental program, such as the "Enviro Choice Program" operated by Terrachoice Inc.? | 959 <input type="checkbox"/> | <input type="checkbox"/> |
| g) Did this establishment publish or contribute to annual or other reports on its environmental performance or sustainable development? | 963 <input type="checkbox"/> | <input type="checkbox"/> |
| h) Did this establishment experience any cost savings as a result of implementing any of the environmental management practices outlined in this question or Question 7? | 969 <input type="checkbox"/> | <input type="checkbox"/> |
| i) Other (please specify) | 967 <input type="checkbox"/> | <input type="checkbox"/> |

Certification

I certify that, to the best of my knowledge, the information provided in this questionnaire is correct and complete.

900	Signature X	Date (D / M / Y)	910	Title
905	Name of person completing this questionnaire (Type or print)	915	Telephone No.	920 Fax No.
925	E-mail address	930	Web Site Address	

How long did it take to collect the data and to complete this form?

935	hours
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Comments

Please provide any comments you may have about this survey (e.g., length, ease of completion, suggestions for future questions, suggestions about the format). Also, please use this space if you wish to provide additional information about your environmental protection activities.

If you have any questions, please contact us.
Telephone (toll free) 1-800-255-7726 (within Canada)
Fax: 1-800-755-5514 (within Canada)
Email: enviro.oid.exp@statcan.ca

**PLEASE RETURN THIS
 QUESTIONNAIRE IN THE
 ENVELOPE PROVIDED**

Thank you for your cooperation

Definition and concepts

Environmental protection expenditures are defined in this survey as all operating expenses and capital and repair expenditures that are incurred in order to comply with Canadian or international actual or anticipated environmental regulations, conventions and voluntary agreements. They consist of expenditures for pollution prevention, and abatement and control expenditures for protecting and restoring wildlife and habitat, expenditures for environmental monitoring, environmental assessments and audits, and expenditures for reclamation and decommissioning of sites. Expenditures to improve employee health, workplace safety and site beautification are excluded.

Environmental conventions or voluntary agreements refer to any formal, multi-party commitment by an industry, an industry association or other body, to meet specific targets in terms of habitat protection, waste reduction, or the elimination or reduction of specific materials that are considered to be harmful or toxic to the natural environment in Canada. Examples include the following: the National Packaging Protocol (reduction of packaging by 50 percent by the year 2000); the Montreal Protocol (elimination of CFCs by 1998); the Canada-U.S. Air Quality Agreement; the "Responsible Care" program from the Canadian Chemical Producers Association. The Accelerated Reduction/Elimination of Toxics (ARET) Program; The Voluntary Challenge and Registry (VCR) Program on climate change, etc.

Environmental regulations refer to any current Canadian federal, provincial, or municipal law or international legislation that is intended to protect or to restore the environment in Canada. Expenditures related to anticipated legislation may be included as long as its provisions are known.

Pollution prevention, abatement and control (PPAC) expenditures include all outlays for the primary purpose of preventing, abating or controlling the release of pollutants and generation of waste resulting from the operations of this establishment. Expenditures to produce PPAC equipment for sale are excluded as they would appear twice in the

expenditure data produced by Statistics Canada. Expenditures for environment - related research and development are also excluded since they are collected elsewhere in Statistics Canada.

Pollution abatement and control (end-of-pipe) expenditures relate to expenditures on an equipment or a facility not integrated to production. Their sole purpose is to abate or control undesirable substances emitted during normal production activities. These expenditures also include waste management expenditures.

Pollution prevention expenditures include all expenditures for new or significantly modified integrated production processes that prevent or minimise emissions of pollutants and the amount of waste generated.

Environmental monitoring expenditures include all costs related to equipment, supplies, labour and purchased services that are required for the monitoring of pollutants emitted by this establishment (e.g. under the National Pollutant Release Inventory).

Environmental assessments and audits expenditures include expenditures for reviews of current operations for compliance with regulations (audits); expenditures to evaluate the environmental impact of proposed programs or projects (assessments); associated legal and consulting costs.

Site reclamation and decommissioning expenditures include expenditures to clean up environmental damage resulting from this establishment's operations; decommissioning expenditures made during the year that are associated with the closing down of an establishment or site (even if closing occurred before 2000).

Expenditures for protection and restoration of wildlife and habitat include expenditures made to protect wildlife and habitat from the effects of this establishment's operations or to restore stocks that have been adversely affected by such operations. They exclude expenditures for aesthetic purposes.

How to report

Please report expenditures in **thousands of Canadian dollars**. If, for certain categories, no expenditures have been incurred, **please write "0" in the corresponding box**.

Where precise data are not available, your best estimate is acceptable. If additional information is available in an annual report or an environmental performance report, **please include a copy** when you return the questionnaire.

TO REPORT CAPITAL EXPENDITURES

Include all relevant outlays in 2000 (fiscal year) for machinery and equipment and their installation and repair, as well as for the construction of non-residential facilities

(by contractors or own employees). For construction, include all costs associated with demolition, planning and design (such as engineering and construction fees), any materials supplied to construction contractors for installation and any costs associated with the purchase of land that are neither amortised nor depreciated.

Exclude any provisions for future environmental liability.

TO REPORT OPERATING EXPENSES

Include all cash expenses, rather than accruals, incurred during your 2000 fiscal year for labour, fuel and electricity, materials and supplies, maintenance and repair and purchased services.