



Environment Accounts and Statistics Division

Survey of Environmental Protection Expenditures, 1998

Confidential when completed

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

Français au verso

Correct as required

Establishment name

Operating name

C / O

Address

City

Province/Territory

Postal code



Please read before completing

SURVEY OBJECTIVE

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 practices 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, 1998*, Catalogue No. 16F0006XIE. The results will also be combined to government and household expenditures to form a complete account of the costs of environmental protection to Canadians.

CONFIDENTIALITY

Statistics Canada is prohibited by law from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable business, without the previous written consent of that business. 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.**

INFORMATION

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

Rec.			
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Coll.	

FSC	

4-2300-58: 1999-09-02 STC/NAD-475-04244

1. Reporting year

Report must cover the financial year ending between **April 1, 1998 and March 31, 1999.**

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

Please report expenditures in thousands of Canadian dollars

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

Include

- ◆ All operating and capital expenditures for end-of-pipe pollution abatement and control facilities and equipment
- ◆ All operating and capital expenditures for equipment or facilities integrated to a production process, that prevent or minimise the production of pollutants and waste
- ◆ All operating and capital 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
- ◆ All operating and capital expenditures for equipment or facilities used for conserving energy or water
- ◆ All operating and capital expenditures for equipment or facilities associated with recirculation, recovery, reuse and recycling of materials or substances
- ◆ Pollution monitoring expenditures
- ◆ Any expenditure for waste collection, disposal treatment and recycling done by your employees
- ◆ Any purchase of waste and sewerage management services or any other purchase of services reported in Question 5

Exclude

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

Operating expenditures		Capital expenditures		Total expenditures
\$ 000		\$ 000		\$ 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 emitted to air		Substances released to surface waters		Solid/liquid waste contained on site		Noise, vibration or radiation		
201	+	202	+	203	+	204	=	100%
%		%		%		%		

Please report expenditures in thousands of Canadian dollars

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
- ◆ all expenditures for environmental audits and assessments
- ◆ expenditures for training on environmental matters
- ◆ administration costs directly associated with environmental protection projects
- ◆ all other expenditures required to comply with environmental regulations or conventions

Exclude

- ◆ environment-related research and development expenditures

Operating expenditures	Capital expenditures	Total expenditures
\$ 000	\$ 000	\$ 000
401	402	403

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

6. Purchase of environmental services

From the total environmental protection expenditures reported in Question 5 what was the amount of environmental services purchased from a private contractor or a government?

a) Waste management services or sewerage services

Include

- ◆ All 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 a federal, provincial or local government body
- ◆ All expenditures related to the use of a sewerage service provided by a federal, provincial or local government body

Exclude

- ◆ Any expenditure for waste management done by your employees

\$ 000

301

b) Environment-related construction and engineering services

\$ 000

502

c) Other environmental services

- Examples:**
- ◆ purchase of environmental assessment and audit services
 - ◆ purchase of services for site reclamation or decommissioning
 - ◆ purchase of services associated with wildlife and habitat protection and restoration

\$ 000

501

d) Total purchase of environmental services

Include

- ◆ sum of cells 301, 502 and 501

Exclude

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

\$ 000

503

7. Pollution abatement or prevention

If you have prevented or reduced waste and pollution emissions or taken steps to conserve resources in 1998, or if you are planning to do so in the next 2 years, please indicate how it was/will be achieved, by checking the appropriate box(es). Please include all projects regardless of whether they are required by regulation or convention.

Pollution abatement or prevention method	1998	1999-2000
Product design or reformulation	810 <input type="checkbox"/>	815 <input type="checkbox"/>
End-of-pipe installation	820 <input type="checkbox"/>	825 <input type="checkbox"/>
Substitution or modification of production process (integrated process)	830 <input type="checkbox"/>	835 <input type="checkbox"/>
Recirculation, recovery, on site recycling or reuse of materials or substances ¹	850 <input type="checkbox"/>	855 <input type="checkbox"/>
Energy conservation	860 <input type="checkbox"/>	865 <input type="checkbox"/>
Material substitution, solvent reduction, elimination or substitution	870 <input type="checkbox"/>	875 <input type="checkbox"/>
Prevention of leaks and spills	880 <input type="checkbox"/>	885 <input type="checkbox"/>
Other	890 <input type="checkbox"/>	895 <input type="checkbox"/>
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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.

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				

Thank you for your cooperation

Comments

For information only

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 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 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.

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 abatement and control (PAC) 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 PAC equipment for sale are excluded as they would appear twice in the expenditure data produced by Statistics Canada. Expenditures for research and development are also

excluded, since the latter are reported in Statistics Canada's Survey on *Research and Development in Canadian Industry*.

End-of-pipe PAC 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.

Process-integrated PAC expenditures include all expenditures for new or significantly modified production processes that are required in order to prevent or to 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 1998).

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 1998 (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 1998 fiscal year for labour, fuel and electricity, materials and supplies, and purchased services.