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Databases for Environmental Analysis: Government of Canada





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Statistics Canada National Accounts and Environment Division System of National Accounts Environmental Information Systems Division State of the Environment Reporting

Databases for Environmental Analysis: Government of Canada

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Databases for Environmental Analysis: Government of Canada

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Preface

The National Accounts and Environment Division of Statistics Canada and the State of the Environment Reporting (SOE) organization of Environment Canada have worked together to develop this inventory of federally held databases of potential use in environmental reporting. This inventory is one component of the Environmental Information System (EIS) developed at Statistics Canada.

This volume combines, into one document, updated and expanded versions of the database descriptions presented in three initial reports (Keddy and McRae, 1989; McRae, 1990; Statistics Canada, 1990a). It provides an inventory of databases representing diverse sources of environmental information available for application in state of the environment reporting.

Comments regarding this report are invited. Readers are further encouraged to contribute and/or identify relevant data holdings that may have been missed. Please refer to the Environmental Database Information Form provided in Section 7.1.

Acknowledgements

This document is based on research conducted by Cathy Keddy, Consulting Ecologist, Murray Cameron, Statistics Canada and Terence McRae, Environment Canada. Mr. Cameron edited and prepared this report.

Many individuals contributed to this report. We appreciate the assistance of all the database managers, many of whom are listed as contacts in the database descriptions, who helped to ensure the thoroughness of this database inventory. Thanks also to those who provided contact names that facilitated the inventory of large departments. We also acknowledge Hélène Trépanier of the National Accounts and Environment Division, Statistics Canada, for her assistance and guidance in translating the database descriptions.

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Mr. Murray Cameron National Accounts and Environment Division Statistics Canada 21st Floor, R.H. Coats Building Ottawa, Ontario K1A 0T6 (613) 951-3740 Fax: (613) 951-3618

Inquiries about the Environment Statistics Program at *Statistics Canada* should be addressed to:

Mr. Bruce Mitchell National Accounts and Environment Division Statistics Canada 21st Floor, R.H. Coats Building Ottawa, Ontario K1A 0T6 (613) 951-3742 Fax: (613) 951-3618

Inquiries about environmental reporting activities at *Environment Canada* should be addressed to:

Mr. V. Neimanis Environmental Information Systems Division State of the Environment Reporting Environment Canada Ottawa, Ontario K1A 0H3 (819) 953-1454 Fax: (819) 953-3972



1. Introduction

There has been a growing recognition in recent years of the importance of periodic analysis and reporting of environmental conditions and trends for development of policies that are environmentally sound. Only with reliable information about the state of the environment, and the processes that contribute to environmental conditions, can government, business institutions and private citizens respond appropriately.

The most recent efforts by the Government of provide this comprehensive Canada to environmental picture began in the early 1980's as a cooperative effort involving Statistics Canada and Environment Canada. A first national State of the Environment Report for Canada (Environment Canada and Statistics Canada, 1986) was prepared jointly. Statistics Canada also released a second edition of the statistical compendium, Human Activity and the Environment (Statistics Canada, 1986). Through these projects, the Departments realized that effective state of the environment reporting required extensive knowledge about sources of environmental information. Therefore, after the release of the reports in 1986, state of the environment reporting entered a new phase that recognized the need for the systematic development of new environmental information and the means to better exploit the information that already existed. This phase has seen the publication of the third edition of Human Activity and the Environment, 1991 (Statistics Canada, 1991) and the second state of the environment report The State of Canada's Environment (Government of Canada, 1991).

This publication presents an inventory of Government of Canada databases of potential use in environmental reporting. The inventory is a meta-database, that is, a database of databases, and forms the content of the Database Reference System (DBRS), one component of Statistics Canada's Environmental Information System. This publication presents the content of the DBRS as of early 1992. The Database Reference System documents and facilitates access to information on available federal government environmental databases. The development of the DBRS has involved the participation of many federal agencies. Databases of both regional and national geographic coverage are included. Regularly updated databases where temporal trends can be examined are considered to be of most value, but others have also been included as they can be useful in providing baseline data against which future data can be compared. Databases stored in machine readable format, in paper files or in any other formats are included.

Over the long term, the DBRS has the potential to play a catalytic role in stimulating action towards environmental protection by encouraging cooperation among database managers, by identifying gaps in information for critical environmental indicators, by highlighting needs for critical monitoring, and by providing a model for environmental database organization for other jurisdictions.

Since the early 1980's there has been increased use of socio-economic statistics for environmental analysis. Socio-economic data have been demonstrated in both Canada and other countries. to be invaluable in the assessment of human activities which place stress on the environment. Therefore not all of the databases included in the DBRS are concerned with strictly environmental phenomena as measured by biologists or ecologists. Databases such as the Census of Population can be used to analyze sources of environmental stress and the dependence on natural resources, including the exposure to stresses imposed by the environment. A socioeconomic focus puts environmental issues into a "real world" perspective since there are many economic activities competing for environmental resources. Socio-economic information combined with environmental factors begin to explain relationships about the environment and the use of its resources. Understanding these interrelationships is essential in assessing the sources of many environmental problems.

The DBRS is also available on the diskette in the back of this publication. The system provides the user with the ability to sort and search through the database descriptions as well as to direct output to paper, terminal or diskette.

2. Background

As noted earlier, this publication is a compilation of the contents of the Database Reference System. This section gives a broader context for the DBRS within the developing framework of environmental statistics and state of the environment reporting.

2.1 Environmental Information System

Statistics Canada's Environmental Information System (EIS) includes a geographically referenced set of socio-economic and environmental statistics based on Geographic Information System (GIS) technology. The GIS provides the facility to combine socio-economic micro-data collected by Statistics Canada with external environmental data. Information is custom tabulated to suit the specific needs of the researcher. For further information contact the National Accounts and Environment Division.

Another component of the EIS is a collection of statistical tables which present a broad selection of environmentally relevant information. Most of these tables appear in the Statistics Canada publication *Human Activity and the Environment, 1991* (Statistics Canada, 1991). They are being updated as new information becomes available.

2.2 National Accounts and the Environment

To more closely integrate basic economic and environmental data, Statistics Canada is developing several new adjunct components to the System of National Accounts. The plan is to implement a set of four inter-related accounts on natural resources and the environment:

- the natural resource stock accounts will measure quantities and (where market prices exist) values of natural resources;
- (ii) the natural resource flow accounts will provide sectoral detail on the supply and disposition of natural resources in quantity and value;
- (iii) the waste and pollutant output accounts will measure the generation of unwanted byproducts by sector, and
- (iv) the environmental expenditure accounts will present sectoral detail on expenditure for environmental protection.

2.3 State of the Environment Reporting

The mission for Environment Canada's State of the Environment Reporting organization is to provide credible and comprehensive environmental information, linked with economic considerations, to help Canadians make informed choices towards sustainable development. Environment Canada has teamed with Statistics Canada to inventory sources of available and accessible federal environmental information for application in state of the environment reporting. Information is a key building block to accomplish the mission; several initiatives of the SOE Reporting organization profit from this product.

Available databases are used to build national environmental indicators which measure the status. trends, environmental conditions and progress toward sustainable development. Information extracted from environmental databases is analyzed for state of the environment reports, as well as for monitoring, assessing resources at risk. determining ecosystem response and evaluating the effects of major ecosystem disruptions. This organization is building baseline state of the environment information which can be analyzed and presented in an ecological framework; geographic information systems constitute one of our tools. A national environmental information network is being developed which will be a distribution mechanism for state of the environment information. The network will contain integrated information to aid with environmentally sensitive decision-making. Metadata will constitute an important element of information.

3. Database Inventory Methods

Departmental database managers were interviewed over the telephone, or solicited by letter, concerning environmental databases for which they were responsible. During each 10 to 20 minute discussion, a standard information form was completed (see Section 7.1) to describe the database(s) identified. In response to the letter solicitation, database managers completed and returned database information forms. Relevant Statistic Canada databases were identified using the Statistical Data Documentation System (Statistics Canada, 1990b). Following editing and standardization, all completed database descriptions were returned to respondents for final verification.

4. **Report Organization**

The results of the database inventory are summarized by department in Table 1. Over 370 databases were identified in 13 Government of Canada departments and agencies. The four departments with the largest number of databases include: Environment Canada (135); Department of Fisheries and Oceans (87); Statistics Canada (39); and Energy Mines and Resources Canada (33). The database descriptions presented in Section 5.1 are grouped by department/agency, which are ordered alphabetically. For Fisheries and Oceans, databases are arranged by region, from west to east, within the department. Also, all bibliographic. or meta-databases, have been removed from each department/agency listing and are grouped together to form Section 5.2. A keyword index is provided in Section 8, located at the end of the report.

Department	Number	Pages
Environment Canada	135	41-108
Fisheries and Oceans	87	109-168
Statistics Canada	39	201-222
Energy Mines and Resources Canada	33	27-40
Indian and Northern Affairs Canada	24	183-196
Agriculture Canada	18	9-18
Forestry Canada	16	169-178
Canadian Museum of Nature	9	21.26
Transport Canada	8	223-228
Health and Welfare Canada	5	179-182
Canada Mortgage and Housing Corporation	2	19-20
National Energy Board	2	199-200
Industry, Science and Technology Canada	1	197-198

Table 1: Number of Databases by Department*

* meta-databases from all departments are grouped in Section 5.2 (pages 229-242)

The databases are also organized into broad subject matter categories to provide the user with an alternative means of identifying data sets of interest. This listing appears as Section 7.2. The subject matter categories are drawn largely from the Population - Environment - Process Framework which served to organize *Human Activity and the Environment 1991* (Statistics Canada, 1991). The subjects cover elements of population, the socioeconomy, natural systems, and the interaction processes occurring among them. The user of this Report should be aware that the purpose of this inventory is to catalogue and highlight sources of information. If the reader has an interest in a particular database, the person identified as the database contact should be contacted **directly** for additional information.

Users are advised that many of the databases identified are not held for the primary purpose of serving public requests for information. Many serve the needs of specific government programmes, and mechanisms are not in place for the rapid processing and tabulation of large numbers of general data requests.

5. Database Descriptions

Information on each of the databases is presented in a standardized format consisting of eleven items. These items provide a summary of information that allows the user of this publication to evaluate the contents of any given database and determine the value of the data set for a particular application. The purpose for which the data was collected, the summary list of contents, the geographic and temporal coverage, output format and restrictions and conditions of use will all be important in this regard. This listing also provides the name, address, telephone (and fax) number of a person(s) the user of this report may contact to obtain additional information.

The list of keywords in each database entry is cross referenced to the Keyword Index (Section 8). This list is intended to aid user searches for databases addressing a particular subject. Most entries also identify related documents in print. Users may wish to obtain these documents for additional information on the subject of interest. An additional list of databases organized by broad subject matter headings is also included in this report as Section 7.2.

The following section presents all database descriptions prepared for this report.

Section 5.1

Environmental Database Holdings, by Federal Government Department



AGRICULTURE CANADA

Agriculture Canada Databases	Contact Name(s) and Phone Number(s)	Page
AGRICULTURE AND METEOROLOGY (AGMET)	Mr. Denis Chaput (613) 995-5011	10
AGROECOLOGICAL RESOURCE AREAS	Dr. Julian Dumanski (613) 995-5011	10
CANADA SOIL INFORMATION SYSTEM (CANSIS)	Dr. K. Bruce MacDonald (613) 995-5011	11
COMPENDIUM OF FERTILIZER-USE PESTICIDES	Mr. John Ramsay (613) 995-7900	11
CROP RESIDUE SURVEY	Mr. Malcolm Black (306) 780-7011	12
HEAVY METAL CONCENTRATIONS IN FERTILIZERS AND FERTILIZER MATERIALS	Ms. Margaret Kenny (613) 995-7900	12
LAND POTENTIAL FOR AGRICULTURE DATABASE	Ms. Valerie Kirkwood (613) 995-5011	13
LEVELS OF PESTICIDE CONTAMINANTS IN FERTILIZERS	Ms. Margaret Kenny (613) 995-7900	13
LIVESTOCK FEEDS CONTAMINANTS DATABASE	Ms. Daintry Gordon (613) 995-7900	14
PEST MANAGEMENT RESEARCH INFORMATION SYSTEM (PRIS)	Dr. Harry Krehm (613) 995-7084	14
PLANT PEST DATABASE	Ms. Johanne Beaulieu (613) 995-7900	15
PRAIRIE RURAL WATER DEVELOPMENT PROGRAM PROJECTS	Mr. George Sephton (306) 780-5104 Mr. Brian Sembaluk (306) 780-6590	15
REGULATORY INFORMATION ON PESTICIDE PRODUCTS	Dr. Frank Cedar (613) 993-4544	16
RESIDUES IN AGRI-FOODS MONITORING PROGRAM	Dr. P.W. Saschenbrecker (613) 995-5433	16
SOIL LANDSCAPE MAPS (SLM) DEGRADATION FILE	Dr. Dick Coote (613) 995-5011	17
SOIL LANDSCAPES OF CANADA	Dr. Jack Shields (613) 995-5011	17
WILDLIFE SERUM BANK	Dr. Stacy Tessaro (306) 975-4071	18

	Agriculture and Meteorology	-	
	(AGMET)		Agroecological Resource Areas
1.	Datafite Name(s) Not applicable.	1.	Datafile Name(s) One for each province.
2a.	Summary Description of Contents Daily climatic data for over 600 agriculturally relevant monitoring stations across Canada.	2a.	Summary Description of Contents A database describing the land resource base for crop production and quality in the Prairie Provinces, mapped at a scale of 1: 2 000 000
2b.	Purpose of the Database To make relevant climatic data readily available to agricultural researchers.	2b.	Purpose of the Database. To describe the state of the land resource base for crop
3a.	Name and Address of Responsible Organization Land Resource Research Centre,	20	production and its quality in terms of managing risk from natural sources
	Ontario, K1A 0C6.	Ja.	Agriculture Canada, Building 74, Central Experimental Farm, Ottawa, Ontario, K1A 0C6.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Denis Chaput (613) 995-5011 FAX: (613) 996-0646	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Julian Dumanski (613) 995-5011 FAX: (613) 996-0646
3c.	Access Mechanisms Through the responsible organization; also available on-line through a private firm. Datacrown, in Ottawa	Зс.	Access Mechanisme Through the responsible agency
4a.	Variables Included (summarized if extensive)	4a.	Variables included (summarized if extensive) - landform
	 daily records of: air temperature (maximum, minimum); total rainfall; total snowfall; total precipitation; snow on the ground; potential evapotranspiration 		- materials (clay, loam, sand) - soils
	(calculated) - data source (observation, estimate) - date		 annual climate data (temperature, precipitation, radiation, soil moisture, cloud cover) long term climate
	- station (number, location)		economic input, output (cost, value or production) land use (crop type, cropping practice) crop vield variability
4b.	Geographic Coverage National, more than 600 stations across Canada.	4b.	Geographic Coverage Prairie Provinces (about 200 polygons)
4c.	Data Acquisition Method(s) Data obtained from the Atmospheric Environment Service.	4c.	Data Acquisition Method(s) Climate data from the &tmospheric Environment Service soil
fd.	Geographic Unit(s) of Measurement Individual stations.		data from soil survey programs, land use data from Statistics Canada, crop yield data from modelling.
10. Lf	Undete Frequency Annually	4d.	Geographic Unit(s) of Measurement Polygons mapped at a scale of 1:2,000,000.
10	Antonio Frequency Antogra	4e.	Period of Record 1986 - present.
·9.	(Ottawa) with custom software.	4f.	Update Frequency Every five years.
lh.	Output Format(s) (tables, maps, etc.) Tables.	4g.	Database Hardware/Software Configuration VAX computer with ARC/INFO and other GIS software
ð.	Restrictions and Conditions None; on-line users must have an account with Crowntek.	4h.	Output Format(s) (tables, maps, etc.) Tables, maps, graphs.
5.	Price Information No charge for data from Agriculture Canada: contact Datacrown for their prices.	5.	Restrictions and Conditions Some information is confidential.
	Corresponding Printed Sources No periodic reports produced; see contact for specific study reports.	6.	Price Information Depends on the size of the request.
3.	Languages The database is only numbers.	7.	Corresponding Printed Sources 1. Agroecological Resource Map and Report for Alberta
Э.	User Aids Available A brief format description and update message is available on the		 Other reports covering topics such as land use and production potentials in the Northern Great Plains; cropping systems of Manifoba.
10	Keywords Agriculture; Agrometeorology; Climate; Weather.	8.	Languages. The reports are in English; the database is mostly numbers.
1	Additional Information None	9.	User Aids Available None currently, but planned.
		10.	Keywords Agriculture; Agro-ecosystems; GIS; Risk; Soils.
		11.	Additional Information The database is in preparation. To date most of the Prairie Provinces have been covered. Quebec and Ontario will be added next. It is anticipated that the entire country will be covered within five years.

	Canada Soli Information System (CANSIS)		Compendium of Fertilizer-Use Pesticides
1_	Datafile Name(s) Detailed Soil Inventory Data	1. Dat	afile Name(s) Not applicable
2a.	Summary Description of Contents Information on the physical, chemical, biological and mineralogical properties and distribution (spatial variability) of the major soils of Canada.	2a. Sur fert	mmary Description of Contents Data on pesticides that may be combined with lizers and active ingredient levels approved for use in Canada.
2b.	Purpose of the Database To assess biological productivity, to identify areas that have actual or potential problems affecting land use, and to locate areas or parcels of land that may be suitable for particular types of land use	2b. Pui che lab	pose of the Database Database provides directions for product labelling and mical information to industry and is used as a reference by the Department for all review.
3a.	Name and Address of Responsible Organization Land Resource Research Centre, Research Branch, Agriculture Canada, Ottawa, Ontario, K1A 0C6.	3a. Nai Ani Avi	ne and Address of Responsible Organization Feed Section, Plant Products Division nal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling nue Ottawa, Ontario, K14,0C5
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. K. Bruce MacDonald (613) 995-5011 FAX: (613) 996-0646	3b. Con Mr.	tact Person(s), Address (if different from 3a), Telephone and FAX Number(s) John Ramsay (613) 995-7900 FAX: (613) 992-5219
3c.	Access Mechanisms Through the responsible organization either in Ottawa or regional offices.	3c. Ac	ess Mechanisms Through the responsible organization.
4a.	Variables included (summarized if extensive) - landscape area parameters: slope; storiness; drainage; rooting depth; soil taxonomy - layer or horizon properties: pH; organic matter content; bulk density; moisture retention; hydraulic conductivity; electrical conductivity; calcareousness; cation exchange capacity; base saturation	4a. Var - - -	iables included (summarized if extensive) pesticide common name guarantee approved uses claims application rates
4b.	Geographic Coverage National coverage with greatest detail in the agricultural regions.		precautions first aid
4c.	Data Acquisition Method(s) Detailed soil inventory data compiled by field surveys aided by air photo interpretation, soil landscape data prepared by interpretation and aggregation from existing sources.		orsposal proceedine compatibility with other pesticides approved pesticides for use with fertilizers pesticides incompatible with fertilizers
4d.	Geographic Unit(a) of Measurement Soil areas or map polygons consisting of up to three soil and landscape combinations.	4b. Ge	ographic Coverage National.
40.	Period of Record Essentially a static record of the basic land resource with individual map areas surveyed at different dates ranging back to 1940.	4c. Da 4d. Ge	a Acquisition Method(s) Trade publications, previously approved labels. ographic Unit(s) of Measurement Not applicable
41.	Update Frequency Updated irregularly, mainly in response to needs for additional or more detailed information	4e. Pe	riod of Record Late 1970's - present.
49	Database Hardware/Software Configuration Hardware - DEC VAX 11/785, TEKTRONIX graphics terminals, CALCOMP plotters, GENTIAN Digitizing tables; Software - ABC/INFO Geographic Information System	41. Up 4g. De VE	date Frequency Constantly updated. tabase Hardware/Software Configuration. The Compendium is printed using INTURA software. INGRES (VAX) is used to keep track of registered fertilizer-
4h.	Output Format(s) (tables, maps, etc.) Computer generated and printed maps,	pe	ticides.
	tabular reports and original data on magnetic media (tapes or diskettes).	4h. Ou	tput Format(s) (tables, maps, etc.) Tables, text.
5.	Restrictions and Conditions. No confidentiality or access restrictions; requests should be made through LRRC soil inventory personnel.	5. He	strictions and Conditions None.
6.	Price Information Charges for materials only for standard product type requests. Cost recovery policy to be developed.	7. Cc	rresponding Printed Sources The Compendium of Fertilizer-Use Pesticides (1989)
7.	Corresponding Printed Sources Published Soil Survey Reports and Soil Landscape Maps.	8. Lai	nguagee Report is bilingual; database is in English.
8.	Languages Output is available or being developed in both official languages.	9. Us	ar Aida Available None.
9.	User Alds Available User guides and manuals are in preparation.	10. K e	ywords Agriculture; Fertilizers; Pest management; Pesticides.
10.	Keywords Agriculture; GIS; Land; Landscape; Soil classification; Soils	11 Aci det	ditional information. The periodicity of the compendium production has not been ermined. Supplements will likely be produced to keep it up-to-date.
11.	Additional Information 1. The datafiles are intended to be used either on their own or in conjunction with other spatial data such as climate, land use, etc: (1) to assess the biological productivity of land areas; (2) to identify areas that have actual or potential problems affecting land use, such as salinity or susceptibility to erosion, and to assess severity; (3) to locate areas or parcels of land that may be suitable for particular types of land use for more detailed investigations; (4) and to assess other land use and environmental quality		

- issues. 2 The CANSIS databases reside on a computer system owned by Agriculture Canada and located in Ottawa.
- Vanables are not necessarily available for all areas of Canada.
 Detailed soil survey data are compiled at various scales ranging from 1:10,000 to 1:125,000.

		1	
	Crop Residue Survey		Heavy Metal Concentrations in Fertilizers and Fertilizer Materials
ι.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Surface crop residue remaining in October.	2a.	Summary Description of Contents A national database on heavy metal
żЬ.	Purpose of the Database To estimate the risk of soil erosion.	06	
la.	Name and Address of Responsible Organization Soil and Water Conservation Service, Praine Farm Rehabilitation Administration, 1901 Victoria Avenue, Regina, Saskatchewan, S4P 0R5	20	Purpose of the Database To monitor fertilizer contamination by heavy metals to avoid soil contamination and subsequent plant uptake.
b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Malcolm Black (306) 780-7011 FAX: (306) 780-5018	Ja	Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
c.	Access Mechanisms Through the responsible organization.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Margaret Kenny (613) 995-7900 FAX: (613) 992-5219
a.	Variables Included (summarized if extensive) - percent crop residue cover	3c.	Access Mechanisms Through the responsible organization.
	 cover type and orientation of cover location (quarter sections) 	4a.	Variables Included (summarized if extensive) I location (producer, town)
b.	Geographic Coverage Agricultural area of the Prairie Provinces (except Peace River)		 reminizer material composition heavy metals (arsenic, cadmium, cobalt, mercury, lead, zinc, nickel, selenium, molybdenum)
D.	Data Acquisition Method(s) Field inspection sheets keypunched in Regina.	4b.	Geographic Coverage National
d.	Geographic Unit(s) of Measurement Individual samples in selected quarter sections.	4c.	Data Acquisition Method(s) Data from random surveys and specific case studies.
Ð.	Period of Record 1986 - 1988	4d.	Geographic Unit(s) of Measurement Individual producers, nearest town.
	Update Frequency None planned.	4e.	Period of Record Mid 1970's - present.
3.	Database Herdware/Software Configuration MSDOS compatible microcomputer; data in ASCII files.	4f.	Update Frequency Annually.
h.	Output Format(s) (tables, maps, etc.) Tables.	4g.	Database Hardware/Software Configuration Paper file.
	Restrictions and Conditions None	4h.	Output Format(s) (tables, maps, etc.) Not applicable.
	Price Information No charge.	5	Restrictions and Conditions Data on individual producers are restricted.
	Corresponding Printed Sources	6.	Price Information No charge
	Anderta Solis at Hisk - Again. Results of a Crop Resulte Survey. Sector Solid - Survey. Sector Solid - Solid	7	Corresponding Printed Sources None.
	 Saskalchewan Solls at Risk. Manitoba Soils at Risk. 	8	Languages The database is in English.
	Languages The database is in English.	9	User Aids Available None.
	User Aids Available None.	10.	Keywords Agriculture; Contamination; Fertilizers; Heavy metals; Plants; Soils.
).	Keyworde Agriculture; Alberta; Crop residue; Erosion risk; Manitoba; Saskatchewan; Soils; Summerfallow; Prairies.	11.	Additional Information None.
1.	Additional Information None.		

_			
	Land Potential for Agriculture Database		Levels of Pesticide Contaminants in Fertilizers
1	Datafile Name(s) There are eight major files (see 4a)	-1.: · · ·	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A national GIS database on the agricultural potential and actual crop yields for 755 soil polygons across Canada, mapped at a scale of 1, 5,000,000	2a	Summary Description of Contents A national database on pesticide contaminants in fertilizers.
		26.	Purpose of the Database To monitor fertilizer contamination by pesticide residues
2b.	Purpose of the Database To describe the soil units (polygons) in terms of soil characteristics, physiography, climate, agricultural potential and risk of degradation.		to prevent crop damage
3a.	Name and Address of Responsible Organization Land Resource Research Centre, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.	3a.	Name and Address of Responsible Organization Leed Section, Plant Products Division Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Valerie Kirkwood (613) 995-5011 FAX: (613) 996-0646	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ns Margaret Kenny (613) 995-7900 FAX: (613) 992-5219
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive)	4a.	Variables Included (summarized if extensive)
	- climate (30 year normals for temp, precipitation, solar radiation, etc. by month		- location (producer, town)
	 and for growing season) soil description (characteristics, physiography, land use) 		 remazer composition pesticides (butylate, atrazine, trifluralin, triallate, metolachior)
	- actual yield (by crop)	4.5	Conservable Coverners National
	 soil degradation (salinity, erosion, etc.) constraint-free vield (modelled potential crop vields) 	40.	Geographic Coverage National
	Constant Land Investigation (CLI ratings and fimilations for agriculture) provincial proportion	4c.	Data Acquisition Method(s) Data from random surveys and specific case studies.
	- soil suitability (for various crops)	4d.	Geographic Unit(s) of Measurement Individual producers, nearest town.
4b.	Geographic Coverage National, 755 polygons at 1:5,000,000.	4e.	Period of Record Late 1970's - present.
4c.	Data Acquisition Method(s) Soil data from Agriculture Canada Soil Survey, climate	4f.	Update Frequency Annually
	yearbooks.	4g.	Database Hardware/Software Configuration Paper file.
4d.	Geographic Unit(s) of Measurement Polygons.	4h.	Cutput Format(s) (tables, maps, etc.) Reports
40.	Period of Record Soil data - 1977; climate 1951-80 normals; actual yield - 1980's.	5.	Restrictions and Conditions Data on individual producers are restricted.
41.	Update Frequency Yield data updated annually.	6.	Price Information No charge
49.	Database Hardware/Software Configuration Data stored on VAX and IBM PC, using ARC/INFO GIS software.	7.	Corresponding Printed Sources Internal annual summary documents have been prepared since 1988.
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, ASCII files.	8.	Languages The database and document are in English.
5	Restrictions and Conditions None.	9.	User Aids Available None.
6	Price information No charge	10	Keywords Agriculture; Contaminants; Fertilizers; Pesticides.
7	Corresponding Printed Sources Soil map of Canada 1:5,000,000.	11.	Additional information None.
8	Languages The database is in English.		
9	User Aids Available The Land Potential Database for Canada User's Handbook (Technical Bulletin 1983-4) (see 11).		
10.	Keywords Agriculture; Agro-ecosystems; GIS; Land; Land potential; Soil degradation; Soils.		
11.	Additional Information This database will be maintained for the foreseeable future as it is linked to the current state of the environment assessment. It is the only database that provides national coverage of agricultural potential. It will eventually be superseded by provincial agroecological resource areas databases at a scale of 1:2,000,000, currently under development at LRRC.		

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	Livestock Feeds Contaminants Database	Pest Manage	ement Research Information System (PRIS)
1.	Datafile Name(s) Not applicable.	Datafile Name(s) Thesa	urus, Experimental Pest Control Products, Pest Management
2a.	Summary Description of Contents A national database on contaminants in livestock feed.	Releases, Minor Use Prog	m mesioue Limits in Pooloos, Parasitic and Predatory Insect gram.
2b.	Purpose of the Database To monitor residues in livestock feeds and assess compliance under the Feeds Act and Regulations.	Summary Description of to pest management in Ca	Contents A national database on research data related anada.
3a.	Name and Address of Responsible Organization Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.	Purpose of the Database Canada in support of sust	To supply research data on pest management in ainable agriculture
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Daintry Gordon (613) 995-7900 FAX (613) 992-5219	Name and Address of Section, Research Branch Ottawa, Ontario, K1A 0C6	Responsible Organization Scientific Information Retrieval h, Agriculture Canada, Neatby Building, 960 Carling Avenue, b.
Зс.	Access Mechanisms Through the responsible organization.	Contact Person(s), Addr	ess (il different from 3a), Telephone and FAX Number(s)
4a.	Variables Included (summarized if extensive)	Ur. Harry Krehm (613) 9 Canadian Centre for Occ Ontario L 8N 1H6	95-7084 supational Health and Safety, 250 Main Street E., Hamilton,
	- feed registrants	(416) 572-4400 (1-R00-2	263-8466 in Canada)
	- on-farm manufacturers	(410) 012 400 (10001	100 0400, 11 Oginiony
	- feed mills - antibiotics	Access Mechanisms T available on-line or on dist	hrough the contact organization (AGRINET); database kette from CCOHS
	 neavy metals (commum, mercury, lead, arsenic) nesticides (30 screened) 	Variables Insinded (sum	manimum if automotions
	 biological contaminants (e.g. salmonella, mycotoxins) 	experimental pest cor	nanzeo n'extensive) ntrol agents (e g pesticides, cultivars, biological agents)
	- location (province)	research data (by cro	p pest)
		- maximum residue limi	its in foods
4b.	Geographic Coverage National.	- insect releases (preda	ators, parasites)
4c.	Data Acquisition Method(s) Data from national random sampling surveys and specific directed investigations.	 researchers minor use of pest con 	trol agents
4d.	Geographic Unit(s) of Measurement Individual sample sources and by province	Geographic Coverage N	lational
4 0.	Period of Record Database set up in 1985; data from late 1970's - present.	Data Acquisition Metho researchers, Departmenta Canada	d(s) Information from government, individual and private I publications; food residue limits set by Health and Welfare
41.	Update Frequency Weekly.	Continued.	
4 g.	Database Hardware/Software Configuration Microcomputer with DBASE III PLUS	Geographic Unit(s) of Me	easurement Not applicable.
	software, INGRES (VAX)	Period of Record 1982 -	present
4h.	Output Format(s) (tables, maps, etc.) Tables, text.	Update Frequency Annu	ally.
5.	Restrictions and Conditions Some individual data are confidential, but summary information is not.	Database Hardware/Software/Sof	ware Configuration VAX computer with custom software
6.	Price Information No charge.	Output Format(s) (tables	, maps, etc.) Tables, text.
7.	Corresponding Printed Sources Year End Summary of Feed Inspection Program, 1988.	Restrictions and Condition	ons None.
8.	Languages Report is bilingual; database is in English.	Price Information The	on-line service is free except for Datapac communications
9.	User Aids Available None.	charges, the disc package annually	e is issued four times a year by CCOHS and costs \$114.00
10.	Keywords Agriculture; Agri-food; Contaminants; Food; Livestock feed; Residues; Toxins.	Corresponding Printed	Sources Pest Management Research Report (an 8-year
11.	Additional Information None.	summary)	
		Languages The database language of the author with	e is essentially in English although reports are entered in the h French terminology where applied.
		User Aids Available Data	abase is very user-friendly.
		Keywords Agriculture; Ins	sects; Pest management; Pesticides; Plant diseases.
		Additional Information 1. This database currentl pesticides. It is being biological control, culti 2. The entire text of rese 3. While Agriculture Can- information is also ava Safety on diskette.	y contains information on pest management practices involving expanded to include more information on management using vars and biotechnology. warch reports is included in the database. ada is responsible for providing the data for the database, this ilable through the Canadian Centre for Occupational Health and

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	Plant Pest Database		Prairie Rural Water Development Program Projects
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Rural water projects
2a.	Summary Description of Contents Information on plant pests on imported or exported plant products	2a.	Summary Description of Contents A database of individual on-farm water development projects in Alberta, Manitoba and Saskatchewan financially assisted under the Rural Water Development Program.
2b.	Purpose of the Database To provide information on pests on imported and exported plant products.	2b.	Purpose of the Database. To maintain an historical record of assisted projects for
3a.	Name and Address of Responsible Organization Plant Protection Division, Animal and Plant Health Directorate, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6	За	Assessment of individual projects and program evaluation. Name and Address of Responsible Organization Prairie Farm Rehabilitation Administration, Agriculture Canada, Mothenwell Building, 1901 Victoria Avenue, Regina, Saskatchewan S4P 0R5
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Johanne Beaulieu (613) 995-7900	3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. George Sephton (306) 780-5104 Mr. Brian Sembaluk (306) 780-6590
3c.	Access Mechanisme Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - pest (insect, virus, bacterium, etc.) - host - geographic distribution of host and pest - references	4a.	Variables Included (summarized if extensive) - applicant (name, address) - project location (legal land description) - assistance (amount, date)
4b.	Geographic Coverage Worldwide.		 project details: cost; depth, size; well casing; well yield; storage, capacity; area imgated
4c.	Data Acquisition Method(s) Field surveys, laboratory reports, literature survey, personal communications.	4b.	Iarm type (commodity): use of water; number of cattle; land control Geographic Coverage Alberta, Saskatchewan, Manitoba and Peace River region
4d.	Geographic Unit(s) of Measurement Location by continent, country, state/province.	40	Deta Acculation Mathed/a). Data from application forms and navment certificates
40.	Period of Record 1900 - present.	40.	Ce smarble Helita) of Management Projects boated by land description
41.	Update Frequency Daily.	40.	Design of Bacteria Bacteria information 1935 - 1973 - detailed information 1973 -
4g.	Database Hardware/Software Configuration VAX with INGRES relational database system.	*0.	present
4h.	Output Format(s) (tables, maps, etc.) Tables.	- 4f.	Update Frequency As new information is received.
5.	Restrictions and Canditions None.	4g.	Database Hardware/Software Configuration HP 3000 with POWERHOUSE data management system and IMAGE DATABASE software.
6.	Price Information None.	4h.	Output Format(s) (tables, maps, etc.) Tables, text.
7.	Corresponding Printed Sources None.	5.	Restrictions and Conditions Some information may be restricted.
8.	Languages The database is in English.	6.	Price Information No charge to government personnel; for other requests, see contact
9.	User Aids Available None.		person
10.	Keywords Agriculture, Insects, Pest management, Pests.	7.	Comesponding Printed Sources Infernal reports cover project pay lists, year end summaries, historic data summaries and other topics.
11.	Additional Information 1. This database is under development and in the process of expansion. 2. At present this database is for internal use only.	8. 9.	Languages The database and reports are in English but they mainly contain numbers.
		10.	Keywords Agriculture; Alberta, British Columbia; Irrigation; Manitoba; Prairies
			Saskatchewan, Water; Water management; Water quantity; Water use.
		11.	Additional Information None

	Regulatory Information on Pesticide Products	Residues in Agri-foods Monitoring Program
1.	Datafile Name(s) Not applicable.	1. Detaile Name(s) Not applicable.
2a	Summary Description of Contents Information on pesticides registered under the Pest Control Products Act, including product names, registrant names, marketing classification, product types, guarantees and uses.	2a. Summary Description of Contents A national database on residues in agri-foods.
2b.	Purpose of the Database To provide support for pesticide regulation and control	moniforing.
la.	In Canada Name and Address of Responsible Organization Information Division, Pesticides	3a. Name and Address of Responsible Organization Food Inspection Directorate, Foo Production and Inspection Branch, Agriculture Canada, 2255 Carling Avenue, Ottawa Ontario, K1A 0Y9.
ь	Directorate, Agriculture Canada, Ottawa, Ontario, K1A 0C6.	3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. B.W. Sandasharidar (512) 005 5100
	Dr. Frank Cedar (613) 993-4544	3c Access Mechanisms Through the responsible organization.
c	Access Mechanisms A sub-set of this database is available on-line and as a subscription service on CD-ROM through the Canadian Centre for Occupational	4a. Variables Included (summarized if extensive)
	Health and Safety (CCOHS), Hamilton, Ontario	 agri-foods (meat, poultry, eggs, dairy, fruit, vegetables) pesticides, antibiotics, hormones
	English telephone numbers of CCOHS(416) 572-4400 and 1-800-263-8466 French telephone numbers of CCOHS(416) 572-2981 and 1-800-263-8276	medicating feed ingredients industrial pollutants, heavy metals
a.	Variables included (summarized if extensive)	 cuccidiostats (domestics, imported) surveillance data (follow-up action when required)
	marketing type, date of first registration, product and formulation type; guarantee, crop or location of use; pest; regulatory status	4b. Geographic Coverage National.
	- text base: includes full label text of all products registered under the PCP Act	4c. Data Acquisition Method(s) Data obtained from analyses conducted by Agricultur Canada and private laboratories; samples collected by the department.
b.	Geographic Coverage National.	4d. Geographic Unit(s) of Measurement Individual samples.
d.	Geographic Unit(s) of Measurement Not applicable.	4e. Period of Record 1981 - present.
е.	Period of Record 1926 - present.	4f. Update Frequency Daily.
E.	Update Frequency Daily.	4g Database Hardware/Software Configuration Some data on IBM compatible microcomputer with LOTUS 1-2-3, MANAGER II software; some in paper files.
g.	Database Hardware/Software Configuration VAX 11/785 computer with INGRES DBMS and FUL/TEXT retrieval system.	4h. Output Format(s) (tables, maps, etc.) Tables.
h.	Output Format(s) (tables, maps, stc.) Reports, tables.	5. Restrictions and Conditions Some sensitive data are restricted.
	Restrictions and Conditions There is no provision for direct access to the computer	6. Price Information No charge.
	Price Information Contact CCOHS for current price	 Corresponding Printed Sources An annual publication - Annual Report on Residue Testing and Formula Compliance for the Fiscal Year 1988-1989.
	Corresponding Printed Sources Lists of registered products and copies of labels on	8. Languages Database is in English; reports are bilingual.
	microfiche may be purchased from Xebec Imaging Services Inc., 12-1675 Russell Road, Ottawa, Ontario, telephone (613) 521-7017. Printed lists of registered products may be	9. User Aids Available None.
	purchased from Mr. Ed Clutten, PACS, Box 506, Burlington, Ontario, L7R 3Y3 (416) 632- 7232.	10 Keywords Agri-food; Agriculture; Contaminants; Food; Pesticides; Residues.
	Languages English, French.	Background information on sampling requirements, determination of risk factors, types of hazards, sampling plans, etc. are provided in <i>Consolidated Strategy</i> for
	User Aids Available CCOHS provides telephone support (1-800-263-8340; 416-572- 4444) in English and French to users of the RIPP/RIPA database.	the Assessment of Chemical and Biological Hazards in Agri-lood Commodities, available from the Agri-food Safety Division.
D.	Keywords Agriculture; Contaminants; Pest management; Pesticides.	 Prior to 1988, data are available only for meat and poultry.
1.	Additional Information	
	 Outside users may access the data through the Canadian Centre for Occupational Health and Safety, Hamilton or may request hard copy reports from the Director, Information Division. 	and the set of the set of the set of the set

 Specific queries can be directed to the National Pesticides Information call line service, 1-800-267-6315.

	Soll Landscape Maps (SLM) Degradation File	Soil Landscapes of Canada
t	Datafile Name(s) One for elach province	1 Latafile Name(s) One for each province and Yukon
2a.	Summary Description of Contents Computer files of parameters defining risk of soil degradation based on polygons on the 1:1,000,000 Soil Landscapes of Canada mans	2a. Summary Description of Contents A national standardized GIS database of soil information for several thousand polygons mapped at the scale of 1.1,000,000
2b.	Purpose of the Database. To provide the capability of assessing the quality and degradation of agricultural land across Canada and the means for rapidly updating this information.	2b. Furpose of the Database To provide information on soils to identify actual and potential agricultural constraints, locate areas suitable for particular agricultural uses and assess productivity over large regions.
3a.	Name and Address of Responsible Organization Land Resource Research Centre, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.	 Name and Address of Responsible Organization Land Resource Research Cent Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Dick Coote (613) 995-5011 FAX: (613) 996-0646	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Er: Jack Shields (613) 995-5011 FAX: (613) 996-0646
30.	Access Mechanisms Through the responsible organization	3c. Access Mechanisms Through the responsible agency.
4a.	 Variables included (summarized if extensive) critical climate vanables (e.g. average maximum spring wind speed, rainfall, erosivity) agricultural land use indices (based on acreage of summer fallow, intensively tilled row crops, grains, other crops) derived soil and landscape data (e.g. soil erodibility by wind, acid buffering capacity, presence of salinity) 	 4a. Variables Included (summarized if extensive) on maps. dominant soil type; soil development; material type; genetic origin; texture; surface form; slope class in accompanying reports additional detail for each polygon for dominant and subdominant soils. surface texture; drainage class; calcareous class; depth to water table; type compacted layer; depth compacted layer 4b. Geographic Coverage National, excluding the Northwest Territories.
4b.	Geographic Coverage Alberta, Saskatchewan, Manitoba (see 11).	4c. Data Acquisition Method(s) Data derived from the most recent soil landscape maps a
4c	Data Acquisition Method(s) Data obtained from the Soil Landscapes of Canada database (Agriculture Canada), Atmospheric Environment Service and Statistics Canada's Census of Agriculture.	 Reports. 4d. Geographic Unit(s) of Measurement Thousands of polygons mapped at a scale 1 1,000,000.
4d.	Geographic Unit(s) of Measurement Soil of polygons mapped at a scale of 1:1,000,000	4e. Period of Record Established 1984; data 1940 - present.
40.	Period of Record Initiated 1985; data from 1960's - present.	4f. Update Frequency The database will be updated as more recent soil survey information becomes available, but maps will not be updated.
41.	Update Frequency Plans are to update the information following each Census of Agriculture.	4g Database Hardware/Software Configuration Microcomputer with DBASE III
49.	Database Hardware/Software Configuration Microcomputer with DBASE III software.	4h. Cutput Format(s) (tables, maps, etc.) Maps, text, tables.
4h	Output Format(s) (tables, maps, etc.) Tables, maps, text.	5. Restrictions and Conditions None.
5	Restrictions and Conditions None.	6. Price Information No charge; however, price subject to change without notice.
6	Price Information No charge	 Corresponding Printed Sources Maps, corresponding reports and illustration pages a available for Alberta, Manitoba, southern Ontario, southern Quebec, Nova Scotia, N
7	Corresponding Printed Sources Maps and accompanying reports have been prepared for wind erosion (Alberta, Manitoba, Saskatchewan [provisional]), water erosion (Mantoba,	Brunswick, Prince Edward Island, and Newfoundland (see 11).
	Saskatchewan [provisional]) and salinity (Manitoba, Alberta, Saskatchewan [provisional, in press]) (see 11).	 Languages Database and user's manual are in English; a French version of the handbook is planned.
8.	Languages All documentation is bilingual.	9. User Aids Available Soil Landscapes of Canada Procedures Manual and Use
9.	User Aids Available The reports above provide information on data use methodologies and tabular data	10. Ksywords Agriculture; GIS; Land; Landscape; Soil classification; Soils.
10.	Keywords Agriculture; Environmental quality: Erosion; Erosion risk; Land; Landscape; Salinization; Soils; Soil degradation.	Additional Information Information packages including a map, report and illustration page are available from the responsible agency
11.	 Additional Information Water erosion risk for southern Ontario and the Maritimes are being prepared and will be followed by B.C. and Quebec maps. The comprehensive national series of water erosion maps will probably be available by 1993. Maps of aciditication and compaction risk are planned for eastern Canada, but have not yet been initiated. The applications of this database are numerous including model development for fertilizer and pesticide pathways in soil and identification and degradation problems. It will become a particularly powerful tool for state of the environment assessment when integrated with 	 The maps have been digitzed and attribute information is in a computer- compatible format (ARC/INFO). Diskettes with information in addition to that provided on the maps and in reports (e.g. organic matter content, pH, nitrogen levels, vegetation cover, lake size) are available on request. Maps for Saskatchewan are in press; those for northern and southern B.C. and the Yukon are being prepared. These maps are used as a basis for preparing soil degradation maps and agro-ecological resource area maps.

Wildlife Serum Bank

- 1 Datafile Name(s) Not applicable
- Summary Description of Contents A bank of serum samples collected from wildlife species in Canada.
- 2b. Purpose of the Database To store serum samples and provide them for retrospective studies on the health status of wildlife populations used for game farming and to record the study results.
- Name and Address of Responsible Organization Health of Animals Laboratory, Agriculture Canada, 116 Veterinary Road Saskatoon, Saskatchewan, S7N 2R3.
- Sb.
 Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)

 Dr. Stacy Tessaro (306) 975-4071
 FAX: (306) 975-5711
- 3c. Access Mechanisms Through the responsible organization.

4a. Variables Included (summarized if extensive)

- species (muskoxen, elk, bison, fallow deer)
- submitter/collector
- location (e.g. town, township)
- date
- sex, age (occasionally)
- 4b. Geographic Coverage Sporadic.
- 4c Data Acquisition Method(s) Serum samples collected by Agriculture Canada staff and other veterinarians and biologists.
- 4d. Geographic Unit(s) of Measurement Individual sample locations.
- 4e. Period of Record 1981 present.
- 41. Update Frequency As new samples are submitted.
- 4g. Database Hardware/Software Configuration Paper file
- 4h. Output Format(s) (tables, maps, etc.) Record books
- 5. Restrictions and Conditions To be determined.
- 6. Price Information Not yet determined.
- 7. Corresponding Printed Sources None.
- 8. Languages The database is in English.
- 9. User Aids Available None.
- Keywords Biota; Biotic health; Bison; Deer, Diseases; Elk; Genetic diversity; Mammals; Muskoxen; Wildlife.
- 11. Additional Information
 - To date, serum samples have been collected by a number of agencies to examine specific disease issues. Geographic coverage is spotty, but there is potential for the database to become national in scope.
 - This database is currently under development. There are plans to computerize the serum record information and add the results of the disease analyses conducted.
 - Once the database is computerized, an inventory of samples and contributor guidelines will be prepared.

CANADA MORTGAGE AND HOUSING CORPORATION

Canada Mortgage and Housing Corporation Databases	Contact Name(s) and Phone Number(s)	Page
AIRCRAFT NOISE EXPOSURE FORECAST (NEF)	Mr. Leo Marti-Aguilar (613) 748-2264	20
HOUSING MARKET INFORMATION SYSTEM (HMIS)	Ms. Jane Carruthers (613) 748-2355	20

Canada Mortgage and Housing Corporation

	Aircraft Noise Exposure Forecast (NEF)	Housing Market information System (HMIS)
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable
2a.	Summary Description of Contents Contour maps at 1:50,000 scale of current and forecast noise levels in the vicinity of airports in Canada.	 Summary Description of Contents A national database on housing including structures, distribution, price and financing.
2b.	Purpose of the Database To provide information concerning housing construction and airport noise to develop construction guidelines and to determine zones not eligible for financing under the National Housing Act.	2b. Purpose of the Database To direct program development of the Department, assess gross national product and provide housing data for business use.
3a.	Name and Address of Responsible Organization Canada Mortgage and Housing Corporation, 682 Montreal Road, Ottawa, Ontario, K1A 0P7.	Mortgage and Housing Corporation, 682 Montreal Road, Ottawa, Ontario, K1A 0P7.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Leo Marti-Aguitar (613) 748-2264	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Jane Carruthers (613) 748-2355 FAX:: (613) 748-6095
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization
4.0	Variables Included (summarized if avtensive)	- Jocation address
-rot.	- aimort name	- dwelling type
	- noise level (25, 30, 35, 40 decibel contour intervals)	- date started
	existing noise levels	- number of units
	- noise level forecast	- linance type (national housing assistance, other)
		- date completed
4b.	Geographic Coverage National, 129 airports, 6 of which are military.	- price
		 optional information (contacts, builder's name, rents, etc.)
4c.	Data Acquisition Method(s) Noise data supplied by Transport Canada and National Defence.	4b. Geographic Coverage National.
4d.	Geographic Unit(s) of Measurement Individual airports located by community.	4c. Data Acquisition Method(s) Data collected by CMHA personnel across Canada.
4e.	Period of Record 1973 - future.	4d. Geographic Unit(s) of Measurement Housing structures referenced by province, country, municipality using standard geographic codes.
4f.	Update Frequency Irregular, depending upon traffic volume predictions of Transport Canada	4e Period of Record 1940 - present.
4g.	Database Hardware/Software Configuration Noise data on mainframe and IBM compatible microcomputer with custom software, maps are in a paper file.	41. Update Frequency Quarterly or monthly, depending upon financing and community size.
4h.	Output Format(s) (tables, maps, etc.) Maps.	4g Database Hardware/Software Configuration IBM microcomputer with custom software.
5.	Restrictions and Conditions None.	4h Output Format(s) (tables, maps, etc.) Tables, text.
6	Price information: No charge for maps; report on airport noise costs \$2.00.	5 Restrictions and Conditions Data on individual structures is not available but summaries
7.	Corresponding Printed Sources	are accessible.
	1 New Housing and Airport Noise (1976), revised 1981 (report).	
	2. Noise Level Maps (1973).	 Price Information No charge for data in a form already compiled; data compilation charges depend on request.
8.	Languages Reports are bringual.	2 Ourseland for Delated Courses
9.	User Aids Available None.	Corresponding Printed Sources Canadian Housing Statistics - produced annually with monthly supplements. Statistical Handbook Tables - produced monthly for each municipality and covers.
10.	Keywords Aircraft; Airports; Noise; Transportation.	starts, completions, price. 3. Starts and Completions - annual report prepared by CMHC.
11.	Additional Information	
	1. Noise level forecasts are based on a model that incorporates information on aircraft	8. Languages Reports are bilingual, the database is in English
	type, destination, time of day, runway location and roadway location. This is operated	O Deve Alde Australia Alexa
	by Transport Canada; the noise level contours are overlaid on maps by CMHC.	9. User Aids Available None.
	 A related report emitted Hoad and Hair Noise: Effects on Housing (updated 1986) is also produced by CMHC. 	10. Keywords Construction, Environmental restructuring; Housing.
		11. Additional Information The early records were collected by Statistics Canada and exist in hard copy format

CANADIAN MUSEUM OF NATURE

Canadian Museum of Nature Databases	Contact Name(s) and Phone Number(s)	Page
CANADIAN MUSEUM OF NATURE ALGAE HERBARIUM PROGRAM DATABASE	Dr. Michel Poulin (613) 990-6454 Mr. Paul B. Hamilton (613) 990-6436 Ms. Barbara Kobolak (613) 990-6450	22
CANADIAN MUSEUM OF NATURE ICHTHYOLOGY COLLECTION	Eir. Brian W. Coad (613) 996-1757 Eir. Don E. McAllister (613) 992-0499	22
CANADIAN MUSEUM OF NATURE LICHENS PROGRAM DATABASE	Ms. Barbara Kobolak (613) 990-6450 Mr. Pak-Yau Wong (613) 990-6445 Eir. Irwin M. Brodo (613) 990-6446	23
CANADIAN MUSEUM OF NATURE MOSSES PROGRAM DATABASE	Ms. Linda Ley (613) 990-6448 Ms. Barbara Kobolak (613) 990-6450	23
CANADIAN MUSEUM OF NATURE VASCULAR PLANTS PROGRAM DATABASE	Ms. Barbara Kobolak (613) 990-6450 Err. George Argus (613) 990-6441	24
FRESHWATER PLANKTONIC INVERTEBRATES DATABASE	Mr. Rama Chengalath (613) 954-4958	24
GENERAL INVERTEBRATES DATABASE	Mr. Rama Chengalath (613) 954-4958 Mr. Peter Frank (613) 954-2583	25
HERPETOLOGY DATABASE (CURATOR)	Er. Francis Cook (613) 996-1756	25
MAMMAL COLLECTION DATABASE	Er. C. G. van Zyll de Jong (613) 954-4947 Mr. David Campbell (613) 954-4949	26

	Canadian Museum of Nature		
	Algae Herbarium Program Database		Canadian Museum of Nature ichthyology Collection
1.	Datafile Name(s) Not applicable.	1 Data	file Name(s) Not applicable.
2a.	Summary Description of Contents Data on 48,213 algae specimens collected worldwide that are held or examined at the Canadian Museum of Nature.	2a. Sum	amary Description of Contents Catalogued and identified collections of fish.
2b.	Purpose of the Detabase Data used for research and services in the fields of systematics, ecology, conservation and environmental impact.	2b. Pur syst	cose of the Database Data used for research and services in the fields of ematics, ecology, conservation, environment impact assessment.
3a.	Name and Address of Responsible Organization Botany Division, Canadian Museum	3a. Nan Mus	e and Address of Responsible Organization Ichthyology Section, Canadian eum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Michel Poulin. (613) 990-6454 Mr. Paul B. Hamilton. (613) 990-6436 DF 242 (613) 000 6450 FAX (613) 000 6436	3b. Con Dr. I FAX	tact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Brian W. Coad (613) 996-1757 Dr. Don E. McAllister (613) 992-0499 : (613) 996-9915
2-	MS. BAIDER'S RODOLEK (DIS) 550-0450 PAA. (DIS) 550-0451	3c. Acc	ess Mechanisms Through the responsible organization.
30.	Access mechanisms inrough the responsible organization.	4a. Vari	ables included (summarized if extensive)
4a.	Variables Included (summarized if extensive) - 63 fields including - systematic and taxonomic data (plant morphometric data) - geographic data (country, locality, latitude and longitude) - ecological information (habitat; physico-chemical data, including pH, conductivity,	-	item number geographic information (country, province, description) ecological information (habitat, type water quality, waterbody size, salinity, temperature, vegetation type) collector
	nutnents) citation data on published research 		species and specimen information (age, size, parasites, maturity) location (latitude, longitude, occurrence)
4b.	Geographic Coverage Worldwide, majority of the records deal with North American water bodies.	4b. Geo	graphic Coverage World.
4c.	Data Acquisition Method(s) Information is obtained from herbarium labels, field books,	4c. Deta by o	a Acquisition Method(s) Specimen and data collected by department staff or sent ther donors.
	atlases	4d. Geo	graphic Unit(s) of Measurement Latitude, longitude.
4d.	Geographic Unit(s) of Measurement Various.	4e. Peri	od of Record 1850 - present.
4 0 .	Period of Record Early 1800's - present.	4f. Upd	ate Frequency Frequently.
4f	Update Frequency Continually	4g. Data MIC	base Hardware/Software Configuration CURATOR software on ALPHA RO 1092 minicomputer.
4g.	Database Herdware/Software Configuration Mainframe computer with CURATOR database management system.	4h. Out	put Format(a) (tables, maps, etc.) Labels, catalog sheets, reports, summaries, maps.
4h.	Output Format(s) (tables, maps, etc.) Text (herbarium labels, reports).	5. Res resti	trictions and Conditions Material under study by staff (new species or records) is icted.
5.	Restrictions and Conditions Accounts have a password; certain data fields have a restriction on the way the information can be entered.	6. Pric	Information Depends on computer and person time; small requests are free.
6.	Price Information Upon request.	7 0.0	
7.	Corresponding Printed Sources Numerous scientific papers and books prepared by researchers at the Botany Division (see 11).	1 2	responding immed sources Catalog sheets and labels are output. Reports for projects are prepared when and if needed, or for external service
8.	Languages The database and background documents are in English.	0	
9.	User Aids Available A user's manual has been prepared for internal use. It can be viewed at the responsible organization's office but is not for public dissemination.	9. Use	gueges Uatacase is largery in English; French neadings for neids are available. r Aldis Available: In-house user's manual is available.
10.	Keywords Algae; Biota; Diatoms; Freshwater; Marine; Phytoplankton; Plankton; Seaweeds; Water, Water quality.	10 Key Fish	words: Aquatic ecosystems; Biodiversity; Biota; Conservation; Endangered species; , Freshwater; Ichthyology; Marine.
11.	Additional Information Publication prepared: A Catalogue of the Marine Algae of the Canadian Arctic R.K.S. Lee, Publications in Botany, No. 9, National Museums of Canada, Ottawa, 1980.	11. Add fourt	litional Information The database is slated for transfer to a VAX computer with a th generation language software package.

		1	
	Canadian Museum of Nature Lichens Program Database		Canadian Museum of Nature Mosses Program Database
1.	Detafile Name(s) Not applicable	1_	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on 20,000 lichen specimens collected worldwide that are held or examined at the Canadian Museum of Nature	2a.	Summary Description of Contents Data on 16,000 moss specimens collected worldwide that are held or examined at the Canadian Museum of Nature.
2b.	Purpose of the Database To record distribution and other data on lichens.	26.	Purpose of the Database To record distribution and other data on mosses.
3a.	Name and Address of Responsible Organization Botany Division, Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4.	3a.	Name and Address of Responsible Organization Botany Division, Canadian Museum of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms Barbara Kobolak (613) 990-6450 Mr Pak-Yau Wong (613) 990-6445 Dr. Irwin M. Brodo (613) 990-6446 FAX (613) 990-6451	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Ms. Linda Ley. (613) 990-6448. Ms. Barbara Kobolak. (613) 990-6450 FAX. (613) 990-6451
3c.	Access Mechanisms Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
4a. 4b. 4c. 4d. 4g. 4l. 4g. 4h. 5. 7. 8. 9. 10. 11.	 Variables included (cummarized if extensive) 21 fedds including species name taxono locality (latitude, longitude, UTM) collector develtification type information type information type information species name ababasi species name (latitude, longitude, though most of the records deal with North America and Europs Data Acquisition Method(s) Data obtained from field books, herbarium specimen factors (CANL herbarium, and packets on loan from the herbaria), gazetteers, maps, allows degraphic Caverage Vorldwide, though most of the records deal with North America and Europs Data Acquisition Method(s) Data obtained from field books, herbarium speciment, allows degraphic Caverage Vorldwide, packets on loan from the herbaria), gazetteers, maps, allows degraphic Unit(s) of Measurement Various Debase Mardware/Software Configuration Main frame computer with Currant Rate Rate Rate Rate Rate Rate Rate Rat	4a 4b. 4c. 4d. 4e. 41. 4g 4h 5 6 7 8. 9. 10. 11.	 Veriable: Included (summarized if extensive) 33 files including species name and taxonomy ocality (laifude, longitude, UTM) sollector and date dentification ype information specimen location (herbarium) Geographic Coverage Worldwide, though most of the records deal with North America and South America. Data Acquisition Method(s) Data obtained from field books, herbarium specimen packets, (CANM) herbanum, and specimen packets on loan from other herbana, gazetteers, maps, atlases Geographic Unit(s) of Messurement Various. Period of Record Early 1800's - present. Update Frequency Continually Database Hardware/Software Configuration Mainframe computer with CURATOR database management system. Output Format(s) (tables, maps, etc.) Text (herbarium labels, reports). Restrictions and Conditions Accounts have passwords; certain data fields have a restriction on the way the information can be entered, data on sensitive species may be restricted. Price Information No charge for reasonably sized requests. Corresponding Printed Sources Numerous scientific papers and books prepared by researchers at the Botany Division (see 11). Languagis The database and background documents are in English. User Aids Available A user's manual has been prepared for internal use, it can be viewed at the Museum's office, but is not for public dissemination. Keyword # Biota; Bryophyte; Mosses; Plants. Additioned Information Recent publications for eastern Canada. Ireland, Robert R and Linda M. Ley (1984). The Type Specimens of Bryophytes in the National Museums of Canada, Sylogeus 47, National Museums of Canada, Ottawa.
			Ireland, Robert R. and Gilda Bellolio-Trucco (1987). Illustrated Guide to some Horworts, Liverworts and Mosses. Syllogeus 62, National Museums of Canada, Ottawa.

	Canadian Museum of Nature Vascular Plants Program Database	Freshwater Planktonic Invertebrates Database
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Data on approximately 200,000 vascular plant specimens collected worldwide that are held or have been examined at the Canadian Museum of Nature	2a. Summary Description of Contents A bibliographic database on freshwater planktonic invertebrates from across Canada and Alaska.
2b.	Purpose of the Database To record distribution and other data on vascular plants.	2b. Purpose of the Database To serve as a research tool for the scientific community.
3a.	Name and Address of Responsible Organization Botany Division, Canadian Museum	 Name and Address of Responsible Organization Zoology Division, Canadian Museum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
3Ь.	of Nature, P.O. Box 3443, Station D, Ottawa, Ontario, K1P 6P4. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Rama Chengalath (613) 954-4958 FAX: (613) 954-6439
	Ms. Barbara Kobolak (613) 990-6450 Dr. George Argus (613) 990-6441 FAX: (613) 990-6451	3c. Access Mechanisms. Accessible to clients of the Canadian Heritage Information Network via PARIS database.
3¢.	Access Mechanisms Through the responsible organization.	
4a.	Variables Included (summarized if extensive) - 30 fields including - species name - towasawi	 4a. Variables Included (summarized if extensive) 15 general subject categories are designated: behaviour; bibliography; biochemistry; development; distribution; ecology; fisheries; genetics; life history; morphology; pathology; physiology; systematics; taxonomy; techniques
	tocality (latitude, longitude, UTM) collector	4b. Geographic Coverage Canada, including all provinces and territories; Alaska.
	date identification	4c. Data Acquisition Method(s) From published literature.
	habitat trae information	4d. Geographic Unit(s) of Measurement Organized by province, territory, state.
	- specimen location	4e Period of Record Early 1800's - 1986.
4b	Geographic Coverage Worldwide, though most of the records deal with North	4f. Update Frequency: No updating after publication.
4c.	Data Acquisition Method(s) Data obtained from field books, herbarium specimen sheets (CAN herbarium and specimen sheets on loan from other herbaria), gazetteers, maps,	4g Database Hardware/Software Configuration CYBER 850 mainframe computer with PARIS custom software. This is part of the Canada-wide Canadian Heritage Information Network.
44	anases.	4h. Output Format(s) (tables, maps, etc.) Formatted reports are available to clients upon
40.	Constant of the second se	F Deckleting and Conditions The blicked information is perticiped
40.	Penda of Necora 1850 - present.	5. Presentations and containing on publication in the initiation is resultated.
41.	Update Frequency Continually.	6. Price Information Network may levy a charge
4g.	Database Herdware/Software Configuration Mainframe computer with CURATOR database management system.	 Corresponding Printed Sources Irregular publications in the series Bibliographia Invertebratorum Aquaticorum Canadensium, Canadian Museum of Nature, Ottawa.
4h.	Output Format(s) (tables, maps, etc.) Text (herbarium labels, reports).	8. Languages Database is mainly English.
5.	Restrictions and Conditions Accounts have passwords; certain data fields have a	9. User Alds Available None.
	restricted.	t0. Keyworde Aquatic ecosystems; Biota; Freshwater; Plankton; Water; Zooplankton.
6.	Price Information No charge for reasonable sized requests.	11 Additional Information Within the next few years the database will be transferred to a more versatile evetern
7.	Corresponding Printed Sources Numerous scientific papers and books prepared by researchers at the Botany Division (see 11).	
8.	Languages The database and background documents are in English.	
9.	User Aids Available A user's manual has been prepared for internal use. This can be examined at the Botany Division office, but is not for public dissemination.	
10.	Keywords Biota, Plants, Rare plants.	
11.	Additional Information 1. Rare plants are a subset of this database with 12,300 records.	

- Publications on rare species: Argus, G.W. and K.M. Pyper (1990). Rare Vascular Plants in Canada - Our Natural Heritage. Canadian Museum of Nature, Ottawa Argus, G. W., K. M. Pyper, D. J. White, & C. J. Keddy, eds. (1982-1987). Atlas of the Rare Vascular Plants of Ontario. Four parts. National Museum of Natural Sciences, Ottawa, (looseleaf).
- 3. Rare plant lists for each province and territory have been published.

	General Invertebrates Database		Herpetology Database (CURATOR)
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents Data on the general invertebrates (i.e. all invertebrate groups except Crustacea, Insecta, Annelida, Mollusca and heiminth parasites) in the Canadian Museum of Nature collection, including collecting site, date, collector, habitat, etc., and collection management data.	2a. 2b	Summary Description of Contents An international (mainly Canadian) database on native reptile and amphibian specimens held by the Canadian Museum of Nature.
2b.	Purpose of the Database A research and collection management tool for the specimens in the collection.	3a.	specimens held by the museum. This information is used in publication production. Name and Address of Besponsible Organization. Hemotology Section Canadian
3a.	Name and Address of Responsible Organization Zoology Division, Canadian Museum of Nature, Roy 3443, Station D. Ottawa, Ontano, K1P, 6P4	24	Museum of Nature, Box 3443, Station D, Ottawa, Ontario, K1P 6P4.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bame Changeleth. (513) 954-958	30.	Dr. Francis Cook (613) 996-1756 FAX: (613) 996-9915
	FAX: (613) 994-6439	3C 4a	Access Mechanisms Through the responsible organization
3c.	Access Mechanisms A small subset of the database is accessible to clients of the Canadian Heritage Information Network via the PARIS Natural Sciences National Database. Requests for more detailed information should be addressed to P. Frank.		 spincies (lalin name) locality (description, grid reference) collector, date, number of specimens
4a.	Variables Included (summarized if extensive) - taxonomy	4b.	Geographic Coverage International, approximately 90% of specimens are from Canada
	 geographic information, naonal, collection method preservation and conservation methods and treatments 	4c.	Data Acquisition Method(s) Specimens collected by museum staff or sent to the museum by collectors across the country.
4b.	Geographic Coverage Worldwide but particularly Canada, principally marine with some freshwater and terrestrial specimens	4d.	Geographic Unit(s) of Measurement Individual specimens referenced by locality description and by LTM and latitude locality description 200
4c.	Data Acquisition Method(s) All data, except preservation and conservation data, are usually received from donors or collectors.	40.	Period of Record 1885 - present.
4d.	Geographic Unit(s) of Measurement Sites recorded by latitude and longitude.	4f.	Update Frequency As new specimens are acquired
40.	Period of Record Mid-1800's - present.	4g.	Databuse Hardware/Software Configuration ALPHA microcomputer with ALPHA- WRITE software
41.	Update Frequency As new specimens are added to the collection or old data are revised	4h.	Output Format(s) (tables, maps, etc.) Tables, text.
4g.	Database Herdware/Software Configuration CONTROL DATA CYBER 850 mainframe with custom software (PARIS). This is part of a Canada-wide network (Canadian Heritage	5.	Restrictions and Conditions Data will be released at the discretion of the Curator.
	Information Network) used by many fine arts, human history and natural history museums in Canada.	6.	Price information. To be determined
4h.	Output Format(s) (tables, maps, etc.) Formatted reports are available on request.	7.	Corresponding Printed Sources Numerous papers published in scientific journals.
5.	Restrictions and Conditions Unpublished taxonomic data on type specimens is restricted. The source of data used in publications should be acknowledged.		submitter.
6.	Price Information Depends upon the size of the request	9.	User Alds Available None
7.	Corresponding Printed Sources There are no regular publications summarizing the data but there are occasional special interest (e.g. type specimens) publications	10.	Keywards Amphibians; Biola; Reptiles; Wildlife.
8.	Languages English is the main language used in the database but field data are entered in the original language usually English or French		 All the data are also stored in a card file. This database represents about two-thirds (120,000+) of all the specimens held in Country.
9.	User Aida Available None.		 A book entitled Natural History of Amphibians and Reptiles of Canada is in preparation and likely to be published by about 1995.
10.	Keyworde Biota, Freshwater; Invertebrates; Marine.		
11.	Additional Information Within the next few years the database will be transferred to an in-house VAX minicomputer system and a custom application written in a 4GL.		

Mammal Collection Database

- 1. Datafile Name(s) Not applicable.
- 2a. Summary Description of Contents Collection data for mammals in Canadian Museum of Nature collection
- Purpose of the Database To make collection data on mammals accessible for research and inquiries.
- Name and Address of Responsible Organization Canadian Museum of Nature, Mammalogy Section, Box 3443, Station D, Ottawa, Ontario, K1P 6P4
- 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. C. G. van Zyll de Jong (613) 954-4947 Mr. David Campbell (613) 954-4949 FAX: (613) 954-6439
- 3c. Access Mechanisms Through the responsible organization.

4a. Variables Included (summarized if extensive)

- species name (Latin, English, French), field number, accession number
- sex, age
- location (region, latitude, longitude, altitude)
- collector, means of acquisition
 measurements
- breeding data
- identifier
- 4b. Geographic Coverage Worldwide.
- 4c. Data Acquisition Method(s) Museum catalogues, field notes, specimen labels.
- 4d. Geographic Unit(s) of Measurement Individual specimens referenced by latitude and longitude
- 4e. Period of Record 1870's present.
- 4! Update Frequency Ongoing, continuous.
- 4g. Database Hardware/Software Configuration ALPHAMICRO SUPERMICRO computer with custom software (CURATOR) backed up on video tape.
- 4h. Output Format(s) (tables, maps, etc.) Reports and tables on request.
- Restrictions and Conditions Distributional information may be withheld for certain sensitive species.
- 6. Price Information No charge.
- 7. Corresponding Printed Sources None.
- 8. Languages English mainly used in database but portions are available in French.
- 9. User Aids Available None.
- 10. Keywords Biota; Endangered species; Mammals; Wildlife.
- 11. Additional Information
 - 1. Within three years, the data will be transferred to VAX System and 4GL database.
 - 2. A service charge may be introduced in the future.

ENERGY MINES AND RESOURCES CANADA

Energy Mines and Resources Canada Databases	Contact Name(s) and Phone Number(s)	Page
AIRBORNE GAMMA RAY DATABASE (AGD)	Mr. J.M. Carson (613) 996-2325 Dr. R.L. Grasty (613) 992-1236	29
ANALYSIS DIRECTORY OF CANADIAN COMMERCIAL COALS	Dr. T.D. Brown (403) 987-8214	29
BIOENERGY INFORMATION AND TECHNOLOGY TRANSFER SYSTEM (BITTS)	Mr. Richard Davies (613) 996-8115	30
BIOGEOCHEMICAL PLANT DATABASE	Dr. Colin Dunn (613) 996-2373	30
CANADIAN EARTHQUAKE DATABASE	Mr. R.J. Wetmiller (613) 995-5548 Mrs. Janet Drysdale (613) 992-0249 Dr. Chin Wong (613) 995-7100	31
CANADIAN PERMAFROST DISTRIBUTION AND THICKNESS DATA COLLECTION	Dr. Alan Judge (613) 996-9323	31
COAL RESERVES OF CANADA	Dr. T.D. Brown (403) 987-8214	32
DATABASE ON THE PANEL ON ENERGY RESEARCH AND DEVELOPMENT EXPENDITURES	Dr. L. Vancea (613) 995-6145	32
GSC PETROLEUM EXPLORATION AND RESOURCES EVALUATION SYSTEM	Dr. P.J. Lee (403) 292-7011	33
MACKENZIE VALLEY GEOTECHNICAL DATABASE	Ms. M. Burgess (613) 996-9317 Mr. A. Heginbottom (613) 992-7813	33
MACROFOSSIL DATABASE	Mr. John Matthews (613) 996-6371	34
MASS BALANCE OF FOUR ARCTIC ICE CAPS AND GLACIERS	Evr. Fritz Koerner (613) 996-7623	34
MINERAL DEPOSITS INFORMATION SYSTEM (MINSYS)	Lise Hubert (613) 996-7394	35
NATIONAL GEOCHEMICAL RECONNAISSANCE DATABASE	Mr. E.H. Hornbrook (613) 992-6559 Err. Peter Friske (613) 992-1503	35
NATIONAL GEOTHERMAL DATABASE	Err. Alan Judge (613) 996-9323	36
PALEOCLIMATE ICE CORE DATA	Dr. Fritz Koemer (613) 996-7623 Dr. David A. Fisher (613) 996-7623	36
PALEOECOLOGICAL DATABASE	Ms. Hélène Jetté (613) 992-7301	37
POLLEN DATA	Dr. Fritz Koerner (613) 996-7623	37
QUATERNARY GEOLOGY DATABASE	Nr. Robert Belanger (613) 992-1856	38

Energy Mines and Resources Canada Databases	Contact Name(s) and Phone Number(s)	Page
RADIOCARBON DATABASE (DATE LOCATOR FILE)	Dr. R. McNeely (613) 995-4241	38
SHALLOW GROUND TEMPERATURE DATABASE	Dr. Alan Judge (613) 996-9323	39
WOOD IDENTIFICATION DATABASE	Dr. R.J. Mott (613) 992-0644	39
WORLDWIDE EARTHQUAKE DATABASE	Mr. R.J. Wetmiller (613) 995-5548 Mrs. J.A. Drysdale (613) 992-0249	40

Energy Mines and Resources Canada

	Airborne Gamma Ray Database (AGD)		Analysis Directory of Canadian Commercial Coals
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) One file for each survey.
2a.	Summary Description of Contents Airborne gamma ray spectrometric measurements of ground concentrations of Potassium, Uranium and Thonum.	2a.	Summery Description of Contents A national database on the location and charactenstics of commercial coals.
2Ь.	Purpose of the Database To aid in mineral exploration, geological mapping, and determination of natural radiation environment	2b.	Purpose of the Database To locate coal sources for specific purposes, to prepare emission guidelines and to assist in project engineering design.
3a.	Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8	За.	Name and Address of Responsible Organization Coal Research Láboratory, CANMET, Energy Mines and Resources Canada, 1 Oil Patch Drive, Devon, Alberta, TOC 1E0.
36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr J.M. Carson (613) 996-2325 Dr. R.L. Grasty (613) 992-1236 EAX: (613) 992-0205	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr T. D. Brown, Director (403) 987-8214 FAX: (403) 987-3430
30	Access Mechanisms Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
<i>.</i>	Acadee Meetmanette Through the tesponsiste organization.	4a.	Variables Included (summarized if extensive)
4a.	Variables Included (summarized if extensive) - concentrations of natural radioelements (Potassium, Uranium and Thorium) - ratioe of radioelements		 proximate analyses (moisture content, ash content, volatile trace elements, fixed carbon) ultimate analyses (content, hydrogen, eulebur, pitcoren, etc.)
	- exposure rate cause by natural radioelements	1.5	 subnur type
	- points located in latitude, longitude		- calo fic value
46	Geographic Courses Pressention shield and advant Disparation areas		- free swelling index
440.	igneous and metamorphic regions of Appalachian Canada		 coal location (mine name, operator, coal seam, coal field, town, county)
4c.	Data Acquisition Method(s) Airborne Gamma Ray Spectrometry	4b	Geographic Coverage National, all coal sources
4d.	Geographic Unit(s) of Measurement Data located by latitude-longitude or derived geographic grid (UTM, Lambert Conformal).	4c.	Data Acquisition Method(s) Sampling and analyses carried out by EMR.
40	Period of Depend 1970 to present	4d.	Geographic Unit(s) of Measurement Individual coal seams.
40.	Period of Necold 1370 to present.	40	Period of Record 1960's - 1987.
41.	Update Frequency Annual.	Af	Undate Framency Periodic
49.	Database Hardware/Software Configuration DG MV1000, DFC VAX custom		
	software	4g.	Database: Hardware/Software Configuration: IBM compatible microcomputer with custom suftware
4h.	Output Format(s) (tables, maps, etc.) Contour maps, profile plots, digital data compatible	45	Andreat Examples / Johnson and a Tables
	with various moustry standard software (PCI etc.).	40	Output Pormat(s) (tables, maps, etc.) [ables.
5.	Restrictions and Conditions None	5	Restrictions and Conditions None for reports prepared, access to the database may be restricted
6.	Price Information Depends on medium and size of request.		
7.	Corresponding Printed Sources Maps and profiles available from responsible	6	Price information Prices for data depend on the request
	organization Numerous reports are published in scientific journals	7	Corresponding Printed Sources Most recent report published in 1986 summarizes 1985
8.	Languages Principally English with French available since 1980		data (see 11) and is entitled Analysis Directory of Canadian Commercial Coals. Supplement No. 6.
9.	User Aids Available See notes available with data.	В.	Languages Reports are available in English and French
10.	Keywords Airbome gamma ray spectrometry; Equivalent Thorium; Equivalent Uranium;	9.	User Aids Available None
11.	Additional Information	10	Keywords Coal; Coal quality; Energy; Hydrocarbons; Minerals; Mining; Non-renewable energy; Non-renewable resources.
	1 This database has been drawn from data collected by and for the GSC.		
	2 All data collected since 1978 are available in both digital and printed form. Data	11.	Additional Information
	to be converted to digital standards.		 The data reflect quarty values for production on a specific day but are felt to be broad y indicative of average values for general analysis purposes. The report is available from Customer Service, Canadian Government Publishing Coster: Ottawa Optama K1A SSG.
			3 The timing of the next survey and database update are undetermined

Energy Mines and Resources Canada

	Bioenergy Information and Technology Transfer System (BITTS)	Biogeochemical Plant Database	
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.	
2a.	Summary Description of Contents BITTS is a national database of information on EMR-funded bioenergy installations and research and development, as well as sources of bioenergy products and expertise in Canada	2a. Summary Description of Contents A database of metal concentrations in woody plant tissue for parts of Nova Scotia, B.C., and Saskatchewan	
2b.	Purpose of the Database To facilitate the retrieval and dissemination of information about bioenergy research, development and demonstration projects.	2b. Purpose of the Database To examine metal concentrations in woody plant tissue and interpret data for mineral exploration purposes.	
3a.	Name and Address of Responsible Organization Efficiency and Alternative Energy Technology Branch, Canada Centre for Mineral and Energy Technology, Energy, Mines	3a Name and Address of Responsible Organization Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8	
2h	and Resources Canada, 7th Floor, 580 Booth Street, Ottawa, Ontario, K1A 0E4.	3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Colin Dunn. (613) 996-2373	
30.	Mr. Richard Davies (613) 996-8115	3c. Access Mechanisms Through the responsible organization.	
3c. 4a.	Access Mechanisms Through the responsible organization.	 4a Variables Included (summarized if extensive) plant species (e.g. balsam fir, black spruce, douglas fir, alder, labrador tea, trembling aspen) 	
	 reports on studies, installations and research and development in thermochemical, biochemical, materials handling and combustion technologies each project description includes: contractor information; objectives; 	 tissue sampled, date, location (UTM, latitude and longitude) 35 elements including silver, gold, platinum, arsenic, zinc, uranium 	
41-	background; method results; financial information; and related publications	4b Geographic Coverage Eastern Nova Scotia, northern Saskatchewan, southern B.C.	
40.	Dete Accuration Method(a) Support of contract documentation supported with	4c. Data Acquisition Method(s) Field sampling of tree tissues,	
40.	contractor interviews	4d Geographic Unit(s) of Measurement Individual tissue samples located by UTM or latitude and longitude	
4d.	Geographic Unit(s) of Measurement Individual projects	4e Period of Record 1979 - present.	
40.		41. Update Frequency Dingoing	
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with	4g Database Hardware/Software Configuration 1BM compatible microcomputer with RBASE SYSTEM 5 database management system.	
46	CLIPPER and IPRINT	4h. Output Format(s) (tables, maps, etc.) Tables, maps, reports.	
5	Restrictions and Conditions None	5 Restrictions and Conditions None; database contributors have first publication rights.	
6.	Price Information No charge.	6. Price Information Price depends on request size	
7.	Corresponding Printed Sources 1. Bioenergy Projects Digest - Thermochemical Conversion. 2. Bioenergy Projects Digest - Biochemical Conversion. 3. Bioenergy Projects Digest - Materials Handling	 Corresponding Printed Sources Reconnaissance Biogeochemical Survey, Eastern Nova Scotia (1989) Additional numerous papers and reports have been prepared covering a variety of topics. 	
	4. Bioenergy Projects Digest - Combustion.	8 Languages Database is in English.	
8.	Languages Factsheets are available in French and English.	9. User Aids Available None.	
9.	User Aids Available None.	10. Keywords Biota; Biotic contamination; Biotic response; Metals; Plants; Tissue metal concentration; Trees	
10.	Keywords Anaerobic digestion, Biochemical conversion; Bioenergy, Biomass, Fuel; Thermochemical conversion; Transportation	 Additional Information The Nova Scotia and some Saskatchewan data are from broad surveys; the 	
11.	Additional Information BITTS will eventually be expanded to encompass a full range of renewable or sustainable energy technologies, including solar, wind, small hydro, energy efficiency and alternative transportation fuels.	other areas are studied in more detail 2. These data might be useful as trend indicators for environmental quality. Woody plants are long term integrators of environmental conditions. 3. This database may be expanded to cover other areas of Canada.	
	Canadian Earthquake Database		Canadian Permafrost Distribution and Thickness Data Collection
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1.	Datafile Name(s) Not applicable	1.	Datefiliu Name(s) Not applicable
2a.	Summary Description of Contents Anational database of earthquake occurrences in or near Canada.	2a.	Summary Description of Contents A national database describing permafrost conditions at 1,067 locations in northern Canada.
2b.	Purpose of the Database To provide information about earthquake hazards in Canada and subsequent scientific and engineering studies.	2b.	Purpose of the Database To monitor climate change and provide data for engineering purposes.
3a.	Name and Address of Responsible Organization Geophysics Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0Y3	За.	Name and Address of Responsible Organization Terrain Sciences Division, Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent, Ottawa Ontario, K1A 0Y3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. R. J. Wetmiller (613) 995-5548 Mrs. Janet Drysdale (613) 992-0249 Dr. Chin Wong (613) 995-7100 Mr M. Lamontagne (613) 995-0600	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Alan Judge (613) 996-9323
	FAX: (613) 992-6931 or 992-8836	3c.	Access Mechanisme Through the responsible organization
3c.	Access Mechanisms Through the responsible organization.	4a.	Variables Included (summarized if extensive) - site name
4a.	Variables Included (summarized if extensive)		 location (latitude, longitude) elevation
	- epicentre		der th permafrost
	- depth		- base of icebonded permafrost
	- magnitude		transition layer
	- enects		mean annual ground temperature
4b.	Geographic Coverage National (land and offshore areas); coverage variable with		 average temperature gradient through permafrost
	time.		- lithology
			 distance to nearest water body (km)
40	Unita Acquisition Method(s) Historical accounts, national seismograph networks.		other features bibliographic references
4d.	Geographic Unit(s) of Measurement Epicentres located by latitude and longitude.	4h	Candraghine Foreines
40.	Period of Record 1600's - present for eastern Canada. 1800's - present for		coogramme correlage i officitori colo of calicoli, 1,007 focatione.
	western Canada 1900's - present for northern Canada. At this time, only data after 1928 are available	4c.	Data Acquisition Method(s) Well logs from industry and Canada Oil and Gas Lands Administration, published literature, personal communications, field exploration.
41.	Update Frequency Daily.	4d.	Geographic Unit(s) of Measurement Individual sampling sites reference by latitude and
4g.	Database Hardware/Software Configuration SUN workstations with INGRES relational database.	4e.	Period of Record Late 1800's - present
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, bulletins, summaries	4f	Update Frequency Annually.
5.	Restrictions and Conditions None.	4g.	Database Hardware/Software Configuration Microcomputer with LOTUS 1-2-3.
6	Price Information \$60.00 per search. Free to government agencies and universities	4h.	Output Format(s) (tables, maps, etc.) Tables.
7.	Corresponding Printed Sources Quarterly and blennial publications of the Geophysics Division, GSC.	5.	Restrictions and Conditions For data from industry there may be a two year confidentiality period
8	Languages The database and reports are bilingual.	6	Price Information No charge
9.	User Aids Available None.	7	Cerresponding Printed Sources Numerous papers and theses have been written drawing upon this database. They give topics such as the history of the nothern land
10.	Keywords Earthquakes, Epicentres, Hazard, Risk, Seismology.	1	surface, and implications for engineering in permafrost regions. The marine atlas of the Beaufort Sea (1987 GSC) contains a man of nermafrost information for the Mackenzie.
11.	Additional Information The Geological Survey of Canada can also supply formal seismic hazard calculations as defined in the National Building Code of Canada for any site in Canada.	0	Beaufort Sea region
	Conteve	0	compromise the database is mostly numbers, publications are in English of billingual
		9	User Akls Available Data collection is described in: "Canadian Permafrost Distribution and Thickness Data Collection: A Discussion", In W.T. Adams and P.G. Johnson (eds.) (1988). Proceedings of the National Students Conference on Northern Studies, 1986; p. 223-232 (held by the Association of Canadian Universities for Northern Studies).
		10.	Keywords Arctic; Climate change; Construction; Permafrost; Physiography.
		11.	Additional Information None.

Database on the Panel on Energy Research and Development Expenditures 1 Datafile Name(a) Data field by task mining methods, province and mine. 1. 2a Summary Description of Contents Location, quality and lifetime of the coal reserves of Canada 1. 2b Purpose of the Database To monitor changes in recoverable coal reserves and determine reserve fieltimes. 2. 3a Name and Address of Responsible Organization Coal Research Laboratory, CANMET, Energy Mines and Resources Canada. 1 OIP atch Drive, Devon. Aberta, TOC 1E0. 3. 3b Context Person(a), Address (If different from 3a), Telephone and FAX Number(a) Dr T. D. Brow. Divector (103) 987-8214 FAX. (613) 987-6314 3c Access Mechanisms Through the responsible organization 5. 3c Access Mechanisms Through the responsible organization 5. 3c Access Mechanisms Through the responsible organization 5. 4c Variables Included (summarized if extensive) - coal rack (qualify) 5. 5. India Acquisition Method(a): Collected from companies, provincial governments and by incomparitor lines (indifferent from 3a), Telephone and FAX Uncle Variables Included (summarized if extensive) 6. Incluster information (lifetime) 6. 4. Variables Included (summarized if extensive) <t< th=""><th>n Energy Canada rarded to iry board</th></t<>	n Energy Canada rarded to iry board
 Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods, province and mine. Datafile Name(a) Data filed by rank, mining methods. Purpose of the Database To monitor changes in recoverable coal reserves and determine recoverable and development and development of particular to support treasult and development of particular to energy research and development of budy the support to use of the Database To document expenditures of functor of the particular to energy research and development on support treasult for support treasult and development of particular to support treasult and development of particular to energy research and development on support treasult and the particular to energy research and development on support treasult and the particular to energy research and development on support treasult and the particular to energy research and development on support treasult and the particular to support treasult and the particular to particular the particular to the particular tothe particular to the partite part to the particular to the p	n Energy Canada. rarded to iry board
 2a. Summary Description of Contents Excation, quality and lifetime of the coal reserves of Canada. 2b. Purpose of the Database To monitor changes in recoverable coal reserves and determine reserve lifetimes. 2a. Name and Address of Responsible Organization Coal Research Laboratory, CANMET, Energy Mines and Resources Canada. 1 OI Patch Drive, Devon. Aberta, TOC 1E0. 2b. Dr. T. D. Brown, Director (403) 987-8310 2c. Contact Person(s), Address of Responsible organization. 2c. Access Mechanisms Through the responsible organization. 2d. Variables Included (gummarized if extensive) contact person(s), Address of Responsible organization. 2c. Contact Person(s), Address of Responsible organization. 2d. Access Mechanisms Through the responsible organization. 2d. Variables Included (gummarized if extensive) coal rank (quality) likely mining methods location province) mine operation (name, type, output, methods, equipment, etc.) ratio of Record 1960's - 1986. 2d. Geographic Coverage National de Data Acquisition Method(s). Collected from companies, provincial governments and by ENR. 2d. Geographic Unit(s) of Measurement Provinces and coalfields 4d. Qedre Frequency Irregular. 4d. Deta Acquisition Method(s). Collected from companies, provincial governments and by ENR. 2d. Bestact 1960's - 1986. 4d. Deta Acquisition Method(s). Collected from companies, provincial governments and by ENR. 4d. Deta Acquisition Method(s). Transe, etc.). Tables, location maps. 5d. Restrictions and Conditions. None for reports prepared, access to the database is restricted. 5d. Price Information. Prices for data depend on the request, for publication costs see 11. 4d. Output Format(s) (tables, maps, etc.). Tables. 	n Energy Canada rarded to ury board
 2b Purpose of the Database To monitor changes in recoverable coal reserves and determine reserve lifetimes. 2b Purpose of the Database To document expenditures of funds to be aw federaments for energy research and development to support treasu submissions. 2b Purpose of the Database To document expenditures of funds to be aw federaments for energy research and development to support treasu submissions. 3c Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. T. D. Brown, Director (403) 987-614 FAX (613) 987-9430 3c. Access Mechanisms Through the responsible organization. 4a Variables Included (summarized if extensive) coal rank (qualify) likely rinning methods location (province) ratio of recoverage National. 4d Geographic Coverage National. de ographic Unit(s) of Measurement. Provinces and coaliteds de Geographic Unit(s) of Measurement. Provinces and coaliteds de Option factorial (reports) regard, access to the database is retircted. b Output Format(s) (tables, maps, etc.). Tables, location maps. c Price Information Prices for data depend on the request; for publication costs see 11. de Detabase Hardware/Software Configuration Data in a paper file de Period of Record 1962 - present. de Detabase Hardware/Software Configuration Data in a paper file. de Period of Record 1962 - present. de Detabase Hardware/Software Configuration Data in a paper file. de Period of Record 1962 - present. de Detabase Hardware/Software Configuration Data in a paper file. de Period of Record 1962 - present. de Detabase Hardware/Software Configuration Data in a paper file. de Detabase Hardware/Software Configuration Data in a paper file. de Detabase Hardware/Software Configuration Data in a paper file. de Detabase Hardware/Software Configuration Da	rarded to ury board
 Sa. Name and Address of Responsible Organization Coal Research Laboratory, CANMET, Energy Mines and Resources Canada, 1 Oil Patch Drive, Devon, Aberta, TOC 150. Contact Person(a), Address (if different from 3a), Telephone and FAX, Number(a), Dr. T. D. Brown. Director (403) 997-8214 FAX. (613) 997-3430 Access Mechanisma Through the responsible organization. Variables Included (summarized if extensive) coal rank (quality) likely mining methods location (province) ratio of recoverable reserves to current production (lifetime) Beegraphic Coverage National. Geographic Coverage National. Geographic Unit(s) of Measurement. Provinces and coalfields Period of Record 1960's - 1986. Update Frequency Irregular. Database Hardware/Software Configuration. Data in a paper file Output Format(s) (tables, maps, etc.). Tables, location maps. Price Information. Prices for data depend on the request, for publication costs see 11. Output Format(s) (tables, maps, etc.). Tables. 	
 3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. T. D. Brown, Director (400) 987-8214 FAX: (613) 987-3430 3c Access Mechanisms Through the responsible organization. 4a Variables included (summarized if extensive) coal rank (quality) likely mining methods location (province) ratio of recoverable reserves to current production (lifetime) 4b Geographic Coverage National Data Acquisition Method(s) Collected from companies, provincial governments and by EMR 4d Geographic Unit(s) of Measurement Provinces and coaliteds Period of Record 1960's - 1986 4d Ordput Format(s) (tables, maps, etc.) Tables, location maps 5. Restrictions and Conditions None for reports prepared; access to the database is restricted. brick Information Prices for data depend on the request; for publication costs see 11. brick Information Prices for data depend on the request; for publication costs see 11. brick Information Prices for data depend on the request; for publication costs see 11. 	Research an
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 4b. Geographic Coverage National 4c. Data Acquisition Method(s) Collected from companies, provincial governments and by EMR. 4d. Geographic Unit(s) of Measurement Provinces and coalfields. 4d. Geographic Unit(s) of Measurement Provinces and coalfields. 4e. Period of Record 1960's - 1986. 4f. Update Frequency Irregular. 4d. Geographic Unit(s) of Measurement Individual projects; summaries by of Geographic Unit(s) of Measurement Individual projects; summaries by of Period of Record 1960's - 1986. 4d. Geographic Unit(s) of Measurement Individual projects; summaries by of Period of Record 1960's - 1986. 4d. Geographic Unit(s) of Measurement Individual projects; summaries by of Period of Record 1982 - present. 4d. Geographic Unit(s) (tables, maps, etc.) Tables, location maps. 4f. Update Frequency Annually. 5. Restrictions and Conditions. None for reports prepared; access to the database is restricted. 6. Price Information. Prices for data depend on the request; for publication costs see 11. 4d. Output Format(s) (tables, maps, etc.) Tables. 	recovery, etc.)
 4c. Data Acquisition Method(s) Collected from companies, provincial governments and by EMR. 4d. Geographic Unit(s) of Measurement. Provinces and coalfields. 4e. Period of Record 1960's - 1986. 4f. Update Frequency Irregular. 4d. Geographic Unit(s) of Measurement. Individual projects; summaries by indication Method(s). Departments apply to the panel for project for data depend on the request; for publication costs see 11. 4h. Output Format(s) (tables, maps, etc.). Tables, location maps. 4f. Price Information. Prices for data depend on the request; for publication costs see 11. 4h. Output Format(s) (tables, maps, etc.). Tables. 	
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if. Update Frequency Irregular. 4d. Geographic Unit(s) of Measurement Individual projects; summaries by indinterees; summaries by indi	funding.
4g. Database Hardware/Software Configuration Data in a paper file 4e. Period of Record 1982 - present. 4h. Output Format(s) (tables, maps, etc.) Tables, location maps 4f. Update Frequency Annually. 5. Restrictions and Conditions None for reports prepared; access to the database is restricted. 4g. Database Hardware/Software Configuration IBM compatible microcomplecution software. 6. Price Information Prices for data depend on the request; for publication costs see 11. 4h. Output Format(s) (tables, maps, etc.) Tables.	department
Ah. Output Format(s) (tables, maps, etc.) Tables, location maps 4f Update Frequency Annually. Ab. Restrictions and Conditions None for reports prepared; access to the database is restricted. 4g Database Hardware/Software Configuration IBM compatible microcomplicution software. Ab. Price Information Prices for data depend on the request; for publication costs see 11. 4h. Output Format(s) (tables, maps, etc.) Tables.	
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Price Information Prices for data depend on the request; for publication costs see 11. 4h Output Format(s) (tables, maps, etc.) Tables	uter with
7. Corresponding Printed Sources Coal Mining in Canada (see 11). 5 Restrictions and Conditions There are no restrictions on summarized data are confidential.	lata. Some rav
B. Languages Report available in English and French. G. Price Information No charge for reports.	
9. User Alds Available None.	
 Keywords Coal, Coal reserves; Energy; Hydrocarbons; Minerals; Mining, Non-renewable energy; Non-renewable resources Corresponding Printed Sources Panel on Energy Research and Expenditures; 1989 is the most recent issue which covers 1989-1994. 	l Developmer
8. Languages Database and reports are in English.	
Additional Information The most recent report was published in 1987 and summarizes 1986 data. It is User Aids Avaliable None.	
Ottawa Ontario K1A 059, (613) 956-4800 Whother the report certain Countria will continue in precedure in precedure report certain country in the report certain certa	
 A data	
Additional information The annual internal report contains current expenditures and expenditures for the following four years.	projected
2 Statistics Canada collects similar data for industry.	

	GSC Petroleum Exploration and Resources Evaluation System		Mackenzle Valley Geotechnical Database
1.	Datafile Name(s) Western Canada Oil and Gas Database	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents A variety of information on western oil and gas reserves and resources.	2a.	Summary Description of Contents Geotechnical data on soils, permafrost and ground ice from over 11,000 boreholes drilled in the Mackenzie Valley
ъ	Purpose of the Database A national computer-aided system for estimating undiscovered petroleum resources.	2b.	Purpose of the Database To assess permafrost, soil, ground ice occurrence and distribution in order to predict and prevent engineering problems associated with permafrost and global change
a	Name and Address of Responsible Organization Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada, 3303 - 33rd Street N.W., Calgary, Alberta, T2L 2A7.	3a.	Name and Address of Responsible Organization Terrain Sciences Division, Geologic Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottaw
b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. P.J. Lee. (403) 292-7011	Зb	Ontario, K1A 0E8. Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Ms. M. Burgess. (613).996-9317. Mr. A. Heginbottom. (613).992-7813.
ic.	Access Mechanisms Through the responsible organization		FAX: (613) 992-2468
.a.	Variables Included (summarized if extensive)	Зc.	Access Mechanisms Through the responsible organization.
	produced, core samples (number, depth) general oil and gas pool information: location, area, thickness, porosity, material (gas, oil)	4a	Variables Included (summarized if extensive) For each borehole the following information may be provided - location (NTS map, UTM coordinates)
	- undiscovered petroleum resources: volume, location		 dnling record: date; method, purpose; elevation, thaw depth; surficial geolog genetic category
0.	Geographic Covenage Western Canada		 data on up to 18 soil horizons: material grain size; moisture content; liquid and plast limits; density; saturation; permatrost/ice
C.	Data Acquisition Method(s) Data are obtained from provincial databases and are also generated from within the GSC.	4b.	Geographic Coverage Mackenzie Delta and Valley
d.	Geographic Unit(s) of Measurement Individual sites of wells and pools referenced by the Dominion Land Survey System, NTS, latitude, longitude, undiscovered resources are referenced more generally.	4c.	Data Acquisition Method(s) Data are obtained from geotechnical reports from consultin firms and government departments (especially the Department of Public Works).
	Period of Decert 1940 - present	4d.	Geographic Unit(s) of Measurement NTS map number and UTM coordinates.
U.		40	Period of Record Historical to mid-1970's.
2	Opcime Preduency Annualy	41	Update Frequency Last updated in 1975; update scheduled in 1990.
g	Database Hardware/Software Configuration HP 3000 model 950 or PC with custom software.	4g	Database Hardware/Software Configuration Original configuration required mainframe computer, update is underway for data storage and management on a
h	Output Format(s) (tables, maps, etc.) Maps, tables, probability distributions.		microcomputer
	Restrictions and Conditions Access to raw data restricted to authorized personnel.	4h	Output Format(s) (tables, maps, etc.) Tables, plots, listings, (borehole logs soon to b available)
i.	Price Information No charge.	5	Restrictions and Conditions. No restrictions on data on Altrack tange. Propose
	Corresponding Printed Sources Reports containing raw data are confidential, but summary reports are accessible to the public. Annual Report - A Summary of Pool Sizes by Number and by Year for the Western Canada Basin	0.	necessary and contacting the restrictions of data of strack tapes. Propose nicrocomputer formats may involve restrictions because of industry involvement ar software.
	Lenguage The reports are in English	6.	Price Information Data are available on tape for copying costs.
		7	Corresponding Printed Sources None.
	can be viewed at the GSC office	8.	Languages. The database is in English.
0	Keywords Alberta; British Columbia; Energy, Exploration; Extraction, Gas, Hydrocarbons;	9.	User Aids Available None.
	Manitoba, Minerals; Non-renewable resources; Oil; Saskatchewan	10.	Keywords. Boreholes; Geotechnical; Ice; Permafrost; Soils.
1.	Additional information None.	11	Additional Information None
		1.01	

		-	
	Macrofossil Database		Mass Balance of Four Arctic Ice Caps and Glaciers
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents A national database on macrofossils and their paleoenvironmental interpretation	2a	Summary Description of Contents Snow accumulation and ice melt data for four glaciers/ice caps in the high Arctic
2b.	Purpose of the Database To reconstruct paleoclimatic conditions and assess climatic trends	2b.	Purpose of the Database To monitor climatic trends in the high Arctic
3a.	Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.	За.	Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John Matthews (613) 996-6371 FAX: (613) 996-2462	3b	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Fritz Koerner (613) 996-7623 FAX (613) 996-9990
3c.	Access Mechanisms Through the responsible organization	3c	Access Mechanisms Through the responsible organization
ta.	Variables Included (summarized if extensive)	4a.	Variables Included (summarized if extensive) - annual snow accumulation
	 sample number location (latitude, longitude, province, town, UTM), date fossile (seeds, plant parts, incents) 		- annual ice melt - location (latitude, longitude) - elevertion
	extraction methods background material	46	Geographic Coverage Melville Island Devon Island Ellesmere Island (Meighen ice can
	 palecenvironmental interpretation submitter, collector 		Agassiz ice cap)
	 related information (reports, other analyses done) 	4c	Data Acquisition Method(s) Field observations.
lb.	Geographic Coverage National, concentrating on the Northwest Territories and Yukon.	4d.	Geographic Unit(s) of Measurement Individual glaciers/ice caps located by latitude and longitude.
c	Data Acquisition Method(s) Fieldwork and sample analysis	40.	Period of Record 1959 - present
ld.	Geographic Unit(s) of Measurement Individual samples referenced by latitude, longitude, UTM,	4f	Update Frequency Annually
le.	Period of Record 1970 - present	4g.	Database Hardware/Software Configuration Paper file.
ŧf.	Update Frequency As samples received.	4h	Output Format(s) (tables, maps, etc.) Tables.
lg.	Database Hardware/Software Configuration MACINTOSH microcomputer with ODESK HELIX software	5	Restrictions and Conditions None
۱h.	Output Format(s) (tables, maps, etc.) Tables, text	6	Price Information No charge.
5.	Restrictions and Conditions None (as long as report has been completed). Database contains uncompleted reports as well as completed reports.	7.	Corresponding Printed Sources. Numerous mass balance papers that report data and discuss the uses of the data. Data are published in reports of the World Service on the Fluctuations of Glaciers that has its headquarters in Switzerland.
6	Price Information None.	8.	Languages Papers are in English; database is mostly numbers.
7.	Corresponding Printed Sources Numerous scientific papers - see contact person.	9.	User Alds Available None
8.	Languages Papers are in English.	10.	Keywords Arctic; Climate change; Glaciers, Ice, Snow
9.	User Aids Available None	11.	Additional Information
10.	Keywords Biotic response; Climate change; Fossils.	1	custom software.
11.	Additional Information This database might be used as a proxy indicator of climate change		 The database ringht be userul as a proxy climatic indicator.

	Mineral Deposits Information System (MINSYS)		National Geochemical Reconnaissance Database
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents An index for, and general information about, mineral records filed under the National Mineral Inventory for Canada.	2a.	Summary Description of Contents A national database of geochemical data for stream, lake water and sediments
26.	Purpose of the Database To provide an index system for mineral deposit data held on record cards (National Mineral Inventory).	2b.	Purpose of the Database To provide geochemical data for mineral exploration purposes and monitoring data for natural surface concentrations of metals.
3a.	Name and Address of Responsible Organization Mineral Policy Sector, Energy, Mines and Resources Canada, 460 O'Connor Street, Ottawa, Ontario, K1A 0E4.	За.	Name and Address of Responsible Organization Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8
36.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Lise Hubert (613) 995-7394 FAX: (613) 943-8453	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. E. H. Hornbrook (613) 992-6559 Dr. Peter Friske (613) 992-1503 FAX: (613) 996-3726
3с	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) mineral commodities present, deposit name and discovery year geological data location (latitude, longitude, NTS) first (and last) production year status (minor occurrence through currently producing miné) work done (drilling, geochemical, underground) cross-reference to provincial inventory system	4a.	 Variables Included (summarized if extensive) water (lakes, streams) uranium, fluoride, (limited calcium, magnesium data); alkalinity; pH sediments: base metals; other elements (uranium, arsenic, mercury, banum, cadmium, gold, iron, etc.); loss on ignition; description both water and sediment: location (UTM, latitude and longitude); sampling date; lake size; underlying geology, analytical methods, analytical accuracy and precision
4b.	Geographic Coverage National	Ab	Cancerantic Coverage At present 2.1 million square kilometres (about 185.000
4c.	Data Acquisition Method(s) Deposit information from federal and provincial governments, corporations and the literature	40.	(kes and streams) are covered including parts of all provinces and territories
4d.	Geographic Unit(s) of Measurement Individual deposits by latitude and longitude, NTS	4c.	Data Acquisition Method(s) Analysis of field samples, collected generally on a one-time basis.
40.	Period of Record Late 1800's to 1991, continuous since 1959.	4d.	Geographic Unit(s) of Measurement Individual sample sites located by UTM.
41	Update Frequency Updating activity has been cancelled	4e.	Period of Record 1973 - present.
4g.	Database Hardware/Software Configuration Data are available on diskettes, in DBASE IV or ASCII format accessible through DOS on microcomputers	4f,	Update Frequency Annually
4h.	Output Format(s) (tables, maps, etc.) Tables	4g.	Database Hardware/Software Configuration PC and VAX based with ORACLE software
5	Restrictions and Conditions Normal copyright protection	4h	Output Format(s) (tables, maps, etc.) Tables, maps, summary statistics.
6	Price Information MINSYS is available on diskette for \$250	5	Restrictions and Conditions None
7	Corresponding Printed Sources National Mineral Inventory Cards are available at \$1	6.	Price Information Depends on the size of the request.
в	Languages The database content is in English, record cards are available in French or English	7	Cc mesponding Printed Sources Numerous reports giving data listings and maps covering geological and element content have been published. Some trend maps are also available.
9.	User Aids Available Coding guide and database description.	В.	Languages The database and reports are in English.
10	Keywords Extraction; Metals; Minerals; Mining, Non-renewable resources	9.	User Aids Available See descriptive portion of reports
11	 Additional Information Provide lists of relevant record cards, photocopies of which may be obtained A related database called CANMINDEX contains records of National Mineral Inventory sites visited and studies conducted by EMR geologists. Dave Garson is the contact for CANMINDEX (992-9822) 	10	 Kerwords Geochemical analyses; Metals; Minerals; Sediments; Water Ad-titional Information This database is in the process of being reformatted using ORACLE with custom software to make it more relational and more publicly oriented A national, multimedia, low density (less comprehensive than current database) sampling program for surface geochemical data is under consideration.

		_	
	National Geothermal Database		Paleoclimate ice Core Data
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) CORE-DAT
2a	Summary Description of Contents A national database on deep subsurface temperature with records from 600 sites.	2a.	Summary Description of Contents Data on ice layers and their composition for over 100,000 years from ice cores collected on Ellesmere Island.
2b.	Purpose of the Database Data collected for use in mine design, drilling strategies, well design, correcting geophysical profiles, examining groundwater resources and pollutant movement, tectonic research and assessing climate change	2b.	Purpose of the Database To study past climate and offer a broad base for analysis of current climate change.
3a.	Name and Address of Responsible Organization Terrain Sciences Division, Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent Ottawa, Ontario K14.0 V3	3a.	Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8 Contact Research, Address (II different form 2a), Telephone and EAX Number(a)
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Alan Judge (613) 996-9323		Dr. Fritz Koemer (613) 996-7623 Dr. David A. Fisher (613) 996-7623 FAX (613) 996-9990
3c	Access Mechanisms Through the responsible agency	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) subsurface temperature, depth date, location (latitude, longitude) geological data elevation description of surface conditions (exposed bed rock, soil cover, artificial pad)	4a.	Variables Included (summarized if extensive) stable isotopes ice layers tons (e.g. sulphates, nitrates, chlondes, calcium, potassium, magnesium) insoluble microparticles pollen core location (latitude, longitude)
4b	Geographic Coverage National, 600 sites, some sites offshore		- date (up to 100,000 years BP)
4c.	Data Acquisition Method(s) Field temperature collection by the Department; geological information from industry and literature sources	4b.	Geographic Coverage High Arctic, Queen Elizabeth Islands; Devon Island; Ellesmere Island; Greenland (Camp Century, DYE-3); Antarctica (Vostok).
4d.	Geographic Unit(s) of Measurement Individual recording sites referenced by latitude, longitude	4c 4d	Data Acquisition Method(s) Samples from nine ice cores taken from three locations. Geographic Unit(s) of Measurement Cores located by latitude, longitude.
4e.	Period of Record 1950's - present.	4e.	Period of Record 100,000 years ago - present
41	Update Frequency Daily - annually, depending on station.	4f.	Update Frequency Every few years
4 g.	Database Hardware/Software Configuration IBM compatible microcomputer with custom software.	49	Database Hardware/Software Configuration Mainframe computer with custom software Microcomputer (IBM)
4h.	Output Format(s) (tables, maps, etc.) Tables	4h	Output Format(s) (tables, maps, etc.) Tables, floppy diskettes
5.	Restrictions and Conditions For data from industry there may be a two year	5	Restrictions and Conditions None
6	Price Information No charge	6.	Price Information No charge
7	Corresponding Printed Sources Numerous papers in scientific journals. Thirteen reports	7	Corresponding Printed Sources Numerous reports covering topics such as increasing acid levels in high Arctic snow (2 papers), climate records from ice cores (20-30 papers)
0	In the Geolitematicshes published by the Department (1975 - 1960).	8.	Languages Reports are in English, database is mostly numbers.
0.	ones are bilingual	9.	User Aids Available Index, catalogue
g .	User Aids Available Information on site establishment and data collection methods is provided in available publications	10.	Keywords Arctic; Climate; Climate change; Global warming; Ice; Ice cores.
10.	Keywords Geology, Geothermal; Ground temperature; Soils.	11.	Additional Information A database covering analysis of snow deposition for the past 100 years is being developed
11.	 Additional Information 1 Temperature data are collected from boreholes and wells drilled by the mining industry, oil industry and special programs. 2 In stations added to the system since 1985, continuous temperature loggers have been installed that record temperature up to six times a day in the upper regions of the holes. 3. Explanatory publications. a) The Norman Wells Pipeline Monitoring Sites - Ground Temperature Data File 1986. Geological Survey of Canada, Open File Report 1621, 1987. b) The Norman Wells Zama Oil Pipeline Permafrost Terrain Research and Monitoring Program: Site Establishment Report. Geological Survey of Canada, Open File Report 2044, 1989. c) Canadian Geothermal Data Collection - Northern Wells, 1981. Geothermal Series #13. Energy. Mines and Resources Canada, 1982. 		

Pollen Data 1 Detafile Name(s) Not applicable. 2a. Summary Description of Contents Annual pollen samples and historical data collected on pollen composition in cores from northern Canada covering the past 100,000 years. 2b. Purpose of the Database Data provide an indication of local vegetation and clinate south of the tree line. 3a. Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8. 3b. Cc mact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Entz Koemer (613) 996-7623 3c. Access Mechanisms Through the responsible organization. 4a. Veriables included (summarized if extensive)
 Detaille Name(s) Not applicable. Summary Description of Contents Annual pollen samples and historical data collected on pollen composition in cores from northern Canada covering the past 100,000 years. Purpose of the Database Data provide an indication of local vegetation and climate south of the tree line. Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8. Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Dr. Entz Koemer. (613) 996-7623 FAX: (613) 996-9990. Access Mechanisms: Through the responsible organization. Variables included (summarized if extensive).
 2a. Summary Description of Contents Annual pollen samples and historical data collected on pollen composition in cores from northern Canada covering the past 100,000 years. 2b. Purpose of the Database Data provide an indication of local vegetation and climate south of the tree line. 3a. Name and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8 3b. Cc mact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Entz Koemer. (613) 996-7623 FAX: (613) 996-9990 3c. Access Mechanisms: Through the responsible organization. 4a. Variables Included (summarized if extensive)
 2b. Purpose of the Database Data provide an indication of local vegetation and climate south of the tree line. 3a. Name and Address of Responsible Organization. Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8 3b. Ccmact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Fritz Koemer. (613) 996-7623. FAX: (613) 996-9990 3c. Access Mechanisms. Through the responsible organization. 4a. Variables Included (summarized if extensive)
 3a. Name and Address of Responsible Organization. Geological Survey of Canada, Energy Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8 3b. Ccmact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Fritz Koerner. (613) 996-7623 FAX: (613) 996-9990 3c. Access Mechanisms. Through the responsible organization. 4a. Variables Included (summarized if extensive)
3b. Cc mact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Dr. Fritz Koerner (613) 996-7623 FAX: (613) 996-9990 3c. Access Mechanisms: Through the responsible organization. 4a. Variables included (summarized if extensive)
3c Access Mechanisms Through the responsible organization. 4a Variables Included (summarized if extensive)
4a Variables Included (summarized if extensive)
 pollen type (species) depth in core (time) number of grains core location (latitude, longitude), date surface elevation diagraphic Coverage Cores from a variety of locations in Canada, north of 60 degrees latitude. Dirte Acquisitien Method(s) Field surface sampling, sampling cores. di Grographic Unit(s) of Measurement Sampling sites located by latitude and longitude. Previod of Record Data from 100,000 years ago - present; database initiated in 1975. U; date Frequency Annually. Database Hardware/Software Configuration Mainframe computer with custom software. Output Format(s) (tables, maps, etc.) Tables, graphic prolifes Restrictions and Conditions None. Price Information No charge. Corresponding Printed Sources Numerous publications in scientific journals covering typics such as air mass tracing, time scale guides, and climate change as deduced from pollen composition changes. Languages Papers are in English: database is mostly numbers. User Aide Available None. Keywords Acctic; Biotic response; Climate change, Pollen. Additional Information The database is being put on an IBM compatible microcomputer. This database might be used as a proxy indicator of climate change.

	Quaternary Geology Database	Radiocarbon Database (Date Locator File)
1	Datafile Name(s) Not applicable	1 Datafile Name(s) Radiocarbon database
2a.	Summary Description of Contents National database of geochemical, lithological, and textural data on glacial sediments in several regions of Canada.	2a. Summary Description of Contents A national database of information on radiocarbon dated samples.
26	Purpose of the Database To provide support for mineral exploration and provenance studies of glacial sediments, the establishment of geochemical baseline and hazards, and the estimation of acid rain sensitivity.	2b. Purpose of the Database To provide dates and data to Quatemary scientists working in Canada.
За.	Name and Address of Responsible Organization Terrain Sciences Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 601 Booth Street, Ottawa, Ontario K1A 0E8	3a. Name and Address of Responsible Organization Radiocarbon Dating Laborat Terrain Sciences Division, Geological Survey of Canada, Energy, Mines and Resour Canada, 601 Booth Street, Ottawa, Ontario, K1A 0E8.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Robert Belanger (613) 992-1856 FAX (613) 992-2468	3b. Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Dr. R. McNeely (613) 995-4241 FAX (613) 996-9990
3c.	Access Mechanisms Through the responsible organization	3c. Access Mechanisms Interactive through the responsible agency.
		4a. Variables Included (summarized if extensive)
la.	 Variables Included (summarized if extensive) trace and minor element contents (e.g., Cu, Pb, Zn, Co, Ni, Cr, As, Mo, U, Mn, plus 	- age (C-14 date) - locality
	others)	- latitude, longitude, NTS
	carbonate and organic carbon contents description of sediment	- elevation
	 location of sample site (latitude, longitude) 	 submitter/conector, conscion date material, taxon significance
4b.	Geographic Coverage Several thousand samples collected from the Arctic islands to southern Canada	associated dates additional information
lc.	Data Acquisition Method(s) Areas included depend on which areas are being mapped/sampled by Division staff; data are included as they are compiled	 references and comments 4b. Geographic Coverage All Canada (national) plus adjoining states and countries.
ld.	Geographic Unit(s) of Measurement Each sample and its data represent a specific site referenced by latitude and longitude	4c. Data Acquisition Method(s) Data submitted by users and other C-14 labs in Canar
le.	Period of Record 1971 - present.	 Geographic Unit(s) of Measurement Individual collection sites referenced by latitude NTS.
H.	Update Frequency Sporadic, data are entered as projects are completed.	4e. Period of Record 1960 - present
lg.	Database Hardware/Software Configuration IBM microcomputer with RBASE	4f. Update Frequency Annual
	software; data exported in several formats	4g. Database Hardware/Software Configuration Microcomputer (MS-DOS) using
↓h.	Output Format(s) (tables, maps, etc.) Maps, tables; on disk.	CARDBOX-PLUS software.
5.	Restrictions and Conditions None; once GSC has published a data set, it is freely available.	4h Output Format(s) (tables, maps, etc.) Lists, tables, maps within a year
6.	Price Information No charge for small requests.	 Restrictions and Conditions Samples dated more than 2 years ago are in the pu domain.
7.	Cerresponding Printed Sources Some data sets have been published in reports of the Geological Survey of Canada	6. Price Information Not applicable.
8.	Languages The database is in English.	7. Corresponding Printed Sources Annual GSC radiocarbon date list.
Э.	User Aids Available A short written description of the database is available.	 Languages Indexed parameters are in English, other fields, including comments, and the language submitted.
0.	Keywords Geochemistry; Geology; Glacial sediments; Physiography; Sediments;	9. User Alds Available See reference below.
E1.	Additional Information None.	 Keywords Archaeology; Climate change; Deglaciation; Radiocarbon dating; Sea k change.
		 Additional Information McNeely R. (1985). "The Geological Survey of Canada Date Locator File: A Progr Report", in <i>Current Research</i>, Part B, GSC Paper 85-1B, p. 471-473. This database is currently a GSC database but will soon become the Canad component of the International Radiocarbon Database.

	Shallow Ground Temperature Database		Wood Identification Database
	Datafile Name(s) Not applicable	1	Detafite Name(s) Not applicable
ła.	Summary Description of Contents Data on shallow ground temperature for northern Canada	2a.	Summary Description of Contents An national database on fossil woods identifications linked with radiocarbon dates.
tb.	Purpose of the Database. To monitor global climate change as reflected by ground temperature	2b.	Purpose of the Database To prepare paleo-distribution maps.
la	Name and Address of Responsible Organization. Terrain Sciences Division, Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Octaor, K14, 073	3a 25	Nume and Address of Responsible Organization Geological Survey of Canada, Energy Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0E8.
Nb.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s)	50	Dr. R J. Mott (613) 992-0644
	Dr. Alan Judge (613) 996-9323	Эс.	Access Mechanisms Through the responsible organization.
IC.	Access Mechanisms Through the responsible organization	4 a.	V:rriables Included (summarized if extensive) - sample number
ia.	Variables Included (summarized if extensive)		- location (latitude, longitude, province, town)
	- site name, location (latitude, longitude)		- tossil wood identifications
	- erevation		- Submitter, collector
	- information source		C. 14 Octos Milleri avalidore
	 air temperature: mean annual, monthly maximum/minimum and month snowfall, average annual, month of maximum; maximum thickness snow cover, 	4b.	Geographic Coverage National.
	duration snow cover	4c	Data Acquisition Method(s) Sample analysis
	- venetation type	4.4	Coorranhic Unit(a) of Measurement Individual samples referenced by latitude and
	earth surface material		kongitude
	- depth active layer		
	 permatrost region bibliographic references 	4e.	Feriod of Record 1960 to present.
		4 f.	Update Frequency As samples received
Иb.	Geographic Coverage Permatrost regions of Canada- central and northern Quebec, northern Ontario, Manitoba, Saskatchewan, Alberta, B.C., Yukon and N.W.T.	49	Liatabase Hardware/Software Configuration Microcomputer (MS-DOS) using CARDBOX-PLUS software
lc.	Data Acquisition Method(s) Field data, literature reports, information from industry.	4h	Output Format(s) (tables, maps, etc.) Tables, lext, reports.
ld.	Geographic Unit(s) of Measurement Individual stations located by latitude and longitude	5.	itestrictions and Conditions Samples identified more than 2 years ago are in the public domain
.	Period of Record Late 1800's - present	6	Price Information Not applicable.
H.	Update Frequency Annually	7.	Corresponding Printed Sources Geological Survey of Canada Wood Identification Reports
lg.	Database Hardware/Software Configuration Microcomputer with LOTUS 1-2-3	8.	Languages Database is in English.
lh.	Output Format(s) (tables, maps, etc.) Tables	9	User Aids Available On request.
5.	Restrictions and Conditions For data from industry there may be a two year confidentiality period	10.	Keywords Fossils; Radiocarbon dating, Wood
6.	Price information No charge	11.	Additional Information The database is presently being used to generate
7	Corresponding Printed Sources There is a variety of publications that incorporate data from this database, but none draws exclusively from this database.		paleovegetation reconstruction maps.
3.	Languages The database is mostly numbers; publications are in English.		
).	User Alds Available A Ground Temperature Data Collection for Northern Canada. Occasional Paper #12, Dept. of Geography, Trent University and Research Report No. 41 of the McGill Centre for Northern Studies (pg. 195-207), 1987.		
0	Keywords Climate; Climate change; Ground temperature; Permafrost; Soils		
10.			

Worldwide Earthquake Database

- 1. Datafile Name(s) Not applicable
- 2a. Summary Description of Contents An international database of earthquake occurrence in the world.
- 2b. Purpose of the Database To provide information about earthquake hazards around the world.
- Name and Address of Responsible Organization Geophysics Division, Geological Survey of Canada, Energy, Mines and Resources Canada, 1 Observatory Crescent, Ottawa, Ontario, K1A 0Y3.
- 3b
 Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s)

 Mr
 R. J. Wetmiller
 (613) 995-5548
 Ms. J. A. Drysdale
 (613) 992-0249

 FAX_
 (613) 992-6931
 FAX
 (613) 992-0249
 (613) 992-0249
- 3c. Access Mechanisms Through the responsible organization.
- 4a. Variables Included (summarized if extensive) - earthquake time and epicentre
 - depth
 - magnitude effects
- 4b. Geographic Coverage Worldwide, larger earthquakes only.
- 4c. Data Acquisition Method(s) Historical accounts, international seismograph networks.
- 4d. Geographic Unit(s) of Measurement Epicentres located by latitude and longitude.
- 4e. Period of Record 1900's present
- 4f. Update Frequency Quarterly.
- 4g Database Hardware/Software Configuration VAX or SUN workstations with INGRESS relational database
- 4h. Output Format(s) (tables, maps, etc.) Tables, maps.
- 5. Restrictions and Conditions None.
- 6. Price Information \$50.00 per search.
- Corresponding Printed Sources Preliminary Determination of Epicentres, published by the U.S. National Earthquake Information Service, Boulder, Colorado.
- 8. Languages The database and reports are in English.
- 9. User Aids Available None.
- 10. Keywords Earthquakes; International, Seismology.
- Additional Information The Geological Survey of Canada can also supply formal seismic hazard calculations as defined in the National Building Code of Canada for any site in Canada

ENVIRONMEN'T CANADA

Environment Canada	Contact Name(s) and Phone Number(s)	Page
ACID PRECIPITATION NETWORK PHYSIOGRAPHIC INFORMATION ON QUEBEC	Mr. André Bouchard (418) 649-6509	46
ACID RAIN AGGREGATE CHEMISTRY DATA	Dr. Dean Jeffries (416) 336-4969	46
AIR POLLUTANTS COMPENDIUM (COMP)	Mr. Tom Furmanczyk (819) 994-3128	47
ARTIFACT INFORMATION SYSTEM (AIS)	Mr. Roger McNicoll (613) 993-5526	47
ATLANTIC CANADA GROUND WATER DATA (G W DAT)	Mr. John Gibb (902) 426-1698 Mr. Frank Cruickshanks (902) 426-6885	48
ATLANTIC SHELLFISH GROWING AREA DATABASE (ASGAD)	Mr. Christopher Roberts (902) 426-4482	48
ATLAS OF SASKATCHEWAN BIRDS	Mr. Al Smith (306) 975-4091	49
AUTOMATED WATER QUALITY MONITORING DATA	Mr. Bill Gummer (306) 780-5322	49
AVIAN CENSUS PLOTS	Ms. Kathryn Dickson (819) 953-1415	50
AVIAN USE OF AGROHABITATS	Ms. Kathy Freemark (819) 997-6082	50
BACKGROUND AIR POLLUTION MONITORING NETWORK (BAPMON)	Dr. Marlene L. Phillips (416) 739-4449	51
B C. DISCHARGE INVENTORY DATABASE	Mr. Alain David (604) 666-2699	51
BIRD BANDING AND RECOVERY DATABASE	Ms. Ellen Hayakawa (819) 953-1425	52
BIRD NAMES	Ms. Kathryn Dickson (819) 953-1415	52
BREEDING BIOLOGY AND HABITAT OF PRAIRIE DUCKS	Dr. Robert Clark (306) 975-4110	53
BULLETIN pH	Mr. Gilles Morneau (514) 283-1106	53
CANADA GEOGRAPHIC INFORMATION SYSTEM (CGIS)	Mr. Ernie Beaudette (819) 953-1467	54
CANADIAN AIR AND PRECIPITATION MONITORING NETWORK (CAPMON)	Dr. Marlene L. Phillips (416) 739-4449	54
CANADIAN COUNCIL OF MINISTERS OF THE ENVIRONMENT PCB	Mr. J. Stevenson (819) 994-0599	55
CANADIAN GREAT LAKES COASTAL ZONE DATABASE (GLCZDB)	Mr. William Bien (416) 336-4948	55
CANADIAN INVENTORY OF HISTORIC BUILDINGS (CIHB)	Mr. Richard Martineau (819) 994-2867	56
CHEMICAL PROFILES DATABASE - SCHEDULE II TRANSPORTATION OF DANGEROUS GOODS (CHEMPROF)	Mr. Luke Trip (819) 953-3415	56
CANADIAN PARKS SERVICE (CPS) BASIC RESOURCE INVENTORY	Ms. Nicole Sarrazin (819) 994-5523	57
CITES (CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES) IMPORT/EXPORT PERMITS	Mr. Jean Robillard (819) 997-1840	58

Environment Canada	Contact Name(s) and Phone Number(s)	Page
COASTAL WATERFOWL SURVEY	Mr. Bruce Johnson (506) 536-3025	58
COLONIAL BIRDS IN THE MARITIMES	Mr. A. Smith (506) 536-3025	59
COMMITTEE ON THE STATUS OF ENDANGERED WILDLIFE IN CANADA DATABASE	Ms. Sylvia Normand (819) 997-4991	59
CONSERVATION AREAS DATABASE	Mr. Ernie Beaudette (819) 953-1467	60
CO-OPERATIVE BREEDING BIRD SURVEY	Ms. Ellen Hayakawa (819) 953-1425	60
CURRENT METER SYSTEM	Mrs. Jo-ann Hodson (416) 336-4627 Mr. Maurice Kerman (416) 336-4945	61
DATA MANAGEMENT SYSTEM OF THE BACTERIOLOGICAL QUALITY OF SHELLFISH AREAS SURVEILLANCE PROGRAMME	Mr. Réjean de Ladurantaye (514) 283-6925	61
DATABASE ON DREDGING AND SEDIMENT QUALITY IN THE ST. LAWRENCE RIVER	Mrs. Lucie Olivier (514) 496-2272 Mr. René Rochon (514) 496-2272	62
DOMESTIC SUBSTANCES LIST (DSL)	Division Chief (819) 997-4336	62
ENVIRONMENTAL CONTAMINANTS IN SEABIRDS	Mr. Dan Busby (506) 536-3025	63
FERROUS FOUNDRY DATABASE	Mr. Bill Blakeman (819) 953-1105	63
FLOOD RISK MAPPING - ATLANTIC REGION	Mr. Thomas Humes (902) 426-3266	64
FLOOD STUDIES DATA	Mr. M.A. Shaw (416) 336-4957	64
FRESHWATER DATABASE	Mr. Bryan Kelso (604) 666-5193	65
FUEL ADDITIVES DATABASE	Mr. Bernard Madé (819) 953-1135	65
FUNDY, GULF OF MAINE, GEORGES BANK RESOURCE AND ENVIRONMENTAL DATABASE	Mr. A.R. McIver (902) 426-9300	66
GLACIER MASS BALANCE	Dr. M. Brugman (306) 975-5966	66
GREAT LAKES HYDROLOGIC AND HYDRAULIC DATA	Mr. P. Yee (613) 938-5725	67
GREAT LAKES SEDIMENT DATA (GLSEDS)	Dr. Norman A. Rukavina (416) 336-4880	67
GREAT LAKES WATER QUALITY DATABASE (STAR)	Mr. Bob Duffield (416) 336-4911	68
HISTORICAL MANUFACTURING CENTRES PROJECT	Mr. Jean-Claude Parent (819) 997-0530	68
HISTORIC SITES AND MONUMENTS BOARD OF CANADA/SYSTEMS PLANNING (HSMBC/SP)	Mr. Douglas Sullivan (819) 997-4038	69
HYDROMETRIC DATA FILE	Mr. Doug Kirk (819) 953-1564	69
ICE CONCENTRATIONS GRID POINTS DATABASE	Mr. David Mudry (613) 996-4214	70
ICE THICKNESS POINT DATA	Mr. Phil Côté (613) 996-4353	70
IMPACTS OF PESTICIDES ON SONGBIRDS	Mr. Dan Busby (506) 536-3025	71
IMPORTANCE OF WILDLIFE TO CANADIANS	Mr. Fern Filion (819) 997-1360 Ms. Elaine DuWors (819) 953-1416 Ms. Anne Haining (613) 951-4592	71
INDEX TO STORM RAINFALLS IN CANADA	Mr. W. Hogg (416) 739-4348	72
INDUSTRIAL WATER USE SURVEYS (INSURVS)	Mr. Don Tate (819) 953-3478	72

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INFORMATION SYSTEM ON AQUATIC BIRDS OF QUEBEC AND THEIR HABITATS (SIDOQ)	Mr. Denis Lehoux (418) 648-2544	73
INVENTORIES OF COLONIAL WATERBIRDS NESTING ON THE CANADIAN GREAT LAKES	Dr. Hans Blokpoel (613) 952-2410	74
INVENTORY OF CANADIAN NON-FERROUS FOUNDRIES	Mr. Bill Blakeman (819) 953-1105	74
INVENTORY OF SENSITIVE AREAS IN THE ST.LAWRENCE RIVER	Mr. Claude Rivest (514) 283-2345	75
LAKE SUPERIOR SHORE PROPERTY INVENTORY AND DAMAGE SURVEY	Mr. William Bien (416) 336-4948	75
LEAD ADDITIVES IN GASOLINE (LAG)	Mr. Peter Harris (819) 953-1673	76
LEADED GASOLINE DATA MANAGEMENT SYSTEM	Ms. Anne Marie Charter (514) 283-2458	76
LRTAP BIOMONITORING SITES	Mr. Don McNicol (613) 952-2409	77
MARITIME NEST RECORDS SCHEME	Dr. A. J. Erskine (506) 536-3025	77
MARITIME PROVINCES STRATEGIC LAND USE DATABASE	Mr. Dave Wilson (902) 426-4197	78
MARITIME WETLANDS INVENTORY	Mr. Al Smith (506) 536-3025 Mr. Al Hanson (506) 536-3025	78
MARITIMES BREEDING BIRD ATLAS	Dr. A. J. Erskine (506) 536-3025	79
MAY BREEDING POPULATION SURVEY · WATERFOWL	Mr. Dale Caswell (204) 983-5260	79
METEOROLOGICAL DATA SYSTEM (MET)	Mr. J. Bull (416) 336-4634	80
MIGRATORY BIRDS	Mr. T. Coleman (403) 468-8908	80
MIGRATORY GAME BIRD POPULATION STATUS	Ms. Kathryn Dickson (819) 953-1415	81
MINE COMPLIANCE DATA	Mr. Bill Wong (819) 997-2294	81
MUNICIPAL AND INDUSTRIAL STRATEGY FOR ABATEMENT - IRON AND STEEL INDUSTRY DATABASE	Mr. Kin Mah (819) 997-2271	82
MUNICIPAL WATER USE SURVEY	Mr. Dave Lacelle (819) 953-1519	82
MUNICIPAL WATERWORKS AND WASTEWATER SYSTEM DATA (MUNDAT)	Mr. Robert Christensen (819) 953-1113	83
NATIONAL AIR POLLUTION SURVEILLANCE NETWORK (NAPS)	Mr. John Shelton (613) 991-9453	83
NATIONAL ANALYSIS OF TRENDS IN EMERGENCIES SYSTEM (NATES)	Mr. Gilles Cloutier (819) 953-6674	84
NATIONAL ARCHIVE (CLIMATE)	Mr. Mike Webb (416) 739-4335	84
NATIONAL ATMOSPHERIC CHEMISTRY (NATCHEM)	Dr. Marlene L. Phillips (416) 739-4449	85
NATIONAL HARVEST SURVEY - GAME BIRDS	Ms. Ellen Hayakawa (819) 953-1425	85
NATIONAL REGISTRY OF TOXIC CHEMICAL RESIDUES (NRTCR)	Mr. Bryan Wakeford (819) 997-1412	86
NATIONAL WATER QUALITY DATABASE (NAQUADAT)	Mr. Peter Brooksbank (819) 997-3424	86
NECKBANDING OF ARCTIC GEESE	Dr. Richard Kerbes (306) 975-4087	87
NON-FERROUS (BASE METAL) SMELTERS DATABASE	Mr. John MacLatchy (819) 953-1605	87

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NORTHERN LAND USE	Mr. Peter Andrews (613) 952-7000	88
NORTHERN ONTARIO WATERFOWL DATABASE	Mr. Ken Ross (613) 952-2415	89
NUCLEAR DATA SYSTEM (NUDAT)	Dr. Pat Vasudev (819) 953-1127	89
OCEAN DUMPING DATABASE SYSTEM PACIFIC AND YUKON REGION	Mr. J. Karau (819) 953-1699	90
OCEAN DUMPING PERMIT SYSTEM (ODUMP)	Ms. Linda Porebaki (819) 997-2046	90
ONTARIO FOREST BIRD MONITORING PROGRAM	Dr. Dan Welsh (613) 952-2405	91
OZONE DEPLETING SUBSTANCES: TRADE AND USE	Mr. Yves Bovet (819) 953-1668	91
PARK USE RELATED DATA SYSTEM (PURDS)	Dr. J. Beaman (819) 997-6305	92
PESTICIDE REGISTRANT SURVEY	Mr. Tedd Brien (819) 953-1669	92
PIPING PLOVER NESTING SITES	Mr. Bruce Johnson (506) 536-3025	93
POLLUTION INCIDENT REPORT RECORDS COLLECTION	Mr. Peter Mazerolle (819) 997-3742	93
PRAIRIE HABITAT MONITORING PROJECT	Mr. Tim Coleman (403) 468-8939	94
PRECIPITATION CHEMISTRY (EP · ATLANTIC REGION)	Mr. William Moores (902) 426-2004	94
PRECIPITATION CHEMISTRY OF SOUTH COAST BRITISH COLUMBIA (SCBC)	Mr. B. Thomson (604) 664-9122	95
PUBLIC OPINION ON THE ENVIRONMENT	Ms. Louise Morgan (819) 953-9742	95
PULP AND PAPER INDUSTRY DATA MANAGEMENT SYSTEM	Mr. Guy Coulombe (514) 283-2337	96
PULP AND PAPER MILL PROFILE SYSTEM	Mr. E. Trevor Ruthman (819) 953-1129	96
QUALITY OF SEDIMENTS IN THE ST. LAWRENCE RIVER	Mrs. Lucie Olivier (514) 496-2272	97
QUEBEC ATLAS OF BREEDING BIRDS	Mr. J. Gauthier (418) 648-7225 Mr. Yves Aubry (418) 648-7225	97
QUEBEC SEABIRD REGISTRY	Mr. Gilles Chapdelaine (418) 649-6127 Mr. Pierre Brousseau (418) 649-6129	98
REGISTER OF UNDERGROUND STORAGE TANKS AND SYSTEMS ON FEDERAL PROPERTY (RUST)	Mr. Brian Melbourne (819) 953-1697 Mr. Kelly Karr (819) 953-1125	98
RESIDUAL DISCHARGE INVENTORY SYSTEM (RDIS)	Mr. Marc Deslauriers (819) 994-3069	99
RESTRICTED INFORMATION SYSTEM FOR CHEMICALS ONTARIO REGION PCB INVENTORY	Mr. Mark Vanderlaan (416) 973-1080	99
RESTRICTED INFORMATION SYSTEM FOR CHEMICALS QUEBEC REGION PCB INVENTORY (RISC - QRPCB)	Mr. Bruno Lafortune (514) 283-2347	100
SEABIRD COLONY CATALOGUE	Mr. Gary Kaiser (604) 946-8546	100
SEDIMENT DATABASE RECORDS	Mr. André d'Entremont (403) 873-3456	101
SHELLDAT, GASPDAT, QUIKMAP	Mr. Hal Nelson (604) 666-2736	101
SNOW AND ICE (GLACIERS)	Mr. C. Simon L. Ommanney (306) 975-5751	102
SPRING BREEDING WATERFOWL SURVEY - EASTERN CANADA	Ms. Kathryn Dickson (819) 953-1415	102

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SURFACE WATER TEMPERATURES OF THE GREAT LAKES	Mr. Paul Louie (416) 739-4351	104
SURFACE WEATHER MAPS - ATMOSPHERIC ENVIRONMENT SERVICE	AES Headquarters (416) 739-4328	104
THREATENED AND ENDANGERED SPECIES	Ms. Karen Lloyd (819) 997-6073	105
VEHICLE EMISSION TESTS	Mr. Fred Hendren (613) 998-9590	105
WATER QUALITY BRANCH ATLANTIC REGION MAP INVENTORY	Mr. Dave Lockerbie (506) 851-6606	106
WESTERN AND NORTHERN REGION (C & P) INDUSTRIAL COMPLIANCE	Mr. Art Beckett (403) 468-8037	106
WESTERN CANADA PELAGIC SEABIRD DATABASE	Mr. Kees Vermeer (604) 356-6537	107
WHOOPING CRANE MIGRATORY RECORDS - SASKATCHEWAN	Mr. Brian Johns (306) 975-4109	107
WORLD OZONE DATABASE	Mr. L.R. Morrison (416) 889-7275	108

	Physiographic Information on Quebec	Acid Rain Aggregate Chemistry	Data
1.	Datafile Name(s) Not applicable	Datafile Name(s) Not applicable	
2a.	Summary Description of Contents Physiographic information on watersheds and lakes from the monitoring network of surface water acidification.	Summary Description of Contents Trace metal and majo Canada	r ion data for lakes in Eastem
2b.	Purpose of the Database Establish the relationships between conditions in a watershed and reactions of land and water to acidic deposition from the atmosphere.	Purpose of the Database Water chemistry data compiled assessment under the LRTAP (Long Range Transport of A	to prepare the 1990 acid rain ir Pollutants) Program.
3a.	Name and Address of Responsible Organization Inland Waters Directorate, Conservation and Protection, Quebec Region, Environment Canada, 8th Floor, 1141 Route de l'Église, P.D. Box 10100, Ste-Foy, Quebec, G1V 4H5.	Name and Address of Responsible Organization Conservation and Protection, Environment Canada, P.O. E L7R 4A6.	Rivers Research Branch, lox 5050, Burlington, Ontario,
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. André Bouchard (418) 649-6509 FAX: (418) 648-4613	Contact Person(s), Address (if different from 3a), Telep Dr. Dean Jeffries (416) 336-4969 FAX: (416)	hone and FAX Number(s) 336-4989
3c.	Access Mechanisms Through the responsible organization; it is possible to obtain information in machine readable format.	Access Mechanisms Through the responsible organization	n.
4a.	Variables Included (summarized if extensive) The following are measured: - geology: rock type, nature of alterability - physiography: slope and drainage - pedology: • grain size	Variables Included (summarized if extensive) - major ions (calcium, magnesium, sodium, potassium, s - trace metals (aluminum, iron, manganese, zinc, coppe - alkalinity - pH - lake area	:ulphate, nitrate, chloride) r}
	 chemistry; major ions; capacity for cation exchange (CEC); metals minerals 	- drainage basin area	
	- forest cover: type and structure.	Geographic Coverage Ontario, Quebec, Atlantic province	\$.
4b.	Geographic Coverage A zone of 150 km between the Ottawa River and the Saguenay River 35 sites inventoried; 6 additional in progress; 25 sites will likely be inventoried also.	Data Acquisition Method(s) Field surveys; data collect environment ministries.	ed by federal and provincial
4c.	Data Acquisition Method(s) Geologic maps. Photo interpretation. 3 pedons in each basin.	Geographic Unit(s) of Measurement Lakes referenced by Survey of Canada watershed designations.	[,] latitude, longitude and Water
4d.	Geographic Unit(s) of Measurement Data by river basin	Period of Record 1980 - 1988.	
4e.	Period of Record 1980 - to date.	Update Frequency No longer updated.	
4f.	Update Frequency Varies according to the samples.	Database Hardware/Software Configuration CDC CYBE software	R mainframe, IBM PC, custom
4g.	Database Hardware/Software Configuration IBM PC Floppy and hard disk KNOWLEDGEMAN.	Output Format(s) (tables, maps, etc.) Tables.	
4h.	Output format(s) (tables, maps, etc.) Tables. Maps of forest cover and soil profiles are available.	Restrictions and Conditions No restrictions on federal d obtained from the provinces	ata; provincial data should be
5.	Restrictions and Conditions No restrictions.	Price Information No charge.	
6.	Price Information No charge.	Corresponding Printed Sources	
7.	Corresponding Printed Sources Technical reports; bibliography.	 National Water Hesearch Institute reports by A.S. Frasei methodologies. 	which describe database and
8.	Languages Documents, map titles and map legends are in French.	2. LRTAP Effects on the Canadian Environment- Aquatic	Effects (8-part report).
9.	User Aids Available None.	Languages Reports and database are in English.	
10	Keywords Acid precipitation: Hydrometeorology: Procipitation character Quebec	User Aids Available See source 1 in 7.	
10.	Regimentas Acia precipitation, Hydronneteorology, Precipitation chemistry, Queoec.	Keywords Acid precipitation; Air pollution, Lakes, Ontario; C	luebec; New Brunswick; Nova
11.	Addutional Information t. An internal validation system is used	Scotia; Prince Edward Island; Water quality	
	 The database on diskette is available in ASCII format. Copies of maps and soil profiles are more complicated to retrieve. Any of these retrievals will depend on the availability of personnel. 	 Additional Information This database was created solely for the 1990 acid rain organization will continue to monitor surface water qualit National Water Quality Database in Ottawa The data in this database are summarized in the data Chemistry Median Synopsis Database" also held by th 	assessment. The responsible y, but will send the data to the case "Eastern Canada Water e responsible organization.

	Air Pollutants Compendium (COMP)	Artifact Information System (AIS)
1	Datafile Neme(s) Not applicable	1. Datsfile Name(s) Not applicable.
2a	Summary Description of Contents Information on common air pollutants (sulphur dioxide, nitrogen oxides, carbon monoxide, hydrocarbons, particulate matter) summarized on an economic sector and provincial basis.	 Summary Description of Contents Description, location, source, registration number, etc., for Canadian Parks Service artifacts.
2b	Purpose of the Database To generate emission estimates for five common air pollutants for 10 year trend analysis	2b. Purpose of the Database To provide a comprehensive inventory of the Canadian Parks Service collection of artifacts throughout Canada and the national historic sites.
3a.	Name and Address of Responsible Organization Pollution Data Analysis, Environmental Protection, Conservation and Protection, Environment Canada, 18th Floor, 351 St. Josenb Rivd, Hull, Quebec, K14, 0H3.	 Name and Address of Responsible Organization National Historic Parks and Sites Directorate, Canadian Parks Service, Environment Canada, 2630 Sheffield Road, Ottawa, Ontario, K1A 0H3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Tom Furmanczyk (819) 994-3128 FAX: (819) 953-9542	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Floger McNicoll (613) 993-5526 FAX: (613) 990-6627
30	Access Machaniama. Through the responsible organization	3c. Access Mechanisms Through the responsible organization
4a	Variables Included (summarized if extensive)	4a. Variables Included (summarized if extensive)
	- sulphur droxide - nitrogen oxides - cadoo monoxide	- method/date of acquisition - period
	- total hydrocarbons - particulate matter	- item text description - condition - location/date
4b.	Geographic Coverage Canada.	- Inistoric object or reproduction
4c.	Data Acquisition Method(s) Data calculated based on information from the Residual Discharge Inventory System (RDIS) database.	4b Geo; maphic Coverage National; all historic object and reproduction holdings are identified for all site, regional and headquarters collections.
4d.	Geographic Unit(s) of Measurement Country, provinces, territories	4c. Data Acquisition Method(s) Through each regional and headquarters collections management unit.
4e.	Period of Record 1970 - present.	4d Geographic Unit(s) of Measurement The physical location for each object and reproduction is identified
4 {.	Update Frequency Every 2 years.	4e. Perix d of Record 1963 - present (registration process). 1700's - present (collection).
4g.	Database Hardware/Software Configuration COMPAQ PC 286 microcomputer using DBASE IV software	4f Update Frequency As required (i.e. new objects acquired and inventories reviewed)
4h.	Output Format(s) (tables, maps, etc.) Tables	4g. Database Hardware/Software Configuration Departmental mainframe (AES-Downsview) running on M204 model database. linked by DATAPAC communications lines to PHO and
5.	Restrictions and Conditions Contact responsible organization	regional offices (each has a terminal and slave printer).
6.	Price information No charge	 Output Format(s) (tables, maps, etc.) Five internal year-end reports with tables cover artifalt movement, deletion, loans and write-offs/transfers.
7.	Corresponding Printed Sources Trends in Common Air Contaminants in Canada, 1970 - 1980. Report EPS 7/AP/17, available from the responsible organization	 Restrictions and Conditions There is no restriction on information availability except for cost and source data: database access seturated to department correspond.
8.	Languages English.	6 Price Information Cost recovery policy
9.	User Aids Available None	7 Convenending Brinted Sources None
10.	Keywords Air pollution; Air quality; Emissions; Industry, Motor vehicles	8 Languages English and French
11	Additional Information The information in the database is derived from Standard Industrial System values.	9. User Aids Available User manuals, database documentation.
		10. Keywords Artifacts, Historic sites; National parks.
		11 Additional Information None

	Atlantic Canada Ground Water Data (G W DAT)		Atlantic Shelifish Growing Area Database (ASGAD)
1	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents Physical and administrative data on water wells drilled, aquifer testing and aquifer parameters in Atlantic Canada.	2a.	Summary Description of Contents A compendium of bacterial water quality and sanitary shoreline survey data on shellfish closures and harvesting areas.
26	Purpose of the Database To provide physical data for groundwater resource management for federal facilities, CEPA, and joint federal/provincial studies.	26.	Purpose of the Database To evaluate sanitary conditions for shellfish growing areas classification and to identify trends in closures of shellfish growing and harvesting areas.
3a.	Name and Address of Responsible Organization Water Resources Directorate, Conservation and Protection, Atlantic Region, Environment Canada, 4th Floor, 45 Alderney Drive, Dartmouth, New Brunswick, B2Y 2N6.	3a	Name and Address of Responsible Organization Environmental Protection, Conservation and Protection, Environment Canada, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.
3Ь	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John Gibb (902) 426-1698 FAX: (902) 426-4457 Mr. Frank Cruickshanks (902) 426-6885 FAX: (902) 426-4457	Зb.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Christopher Roberts (902) 426-4482 FAX: (902) 426-3574
90	Access Machanisme. Through the responsible organization	3c	Access Mechanisms Through the responsible organization or contact person.
se.	Access mechanisans introdyn me tesponsible organization.	10	Variabias Included (summarized if astensive)
4a	Variables Included (summarized if extensive)	4a.	 salinity
	· depth		- dissolved oxygen
	casing construction		- total coliform
	location		- fecal coliforms (MPN)
	owner, driller		- fecal Streptococcus
	 purpose (domestic, industrial, exploratory) 		
	geological strata	4b.	Geographic Coverage Coastal waters in New Brunswick, Nova Scotia, Prince Edward
	 whether pumping tests were performed (start time, duration, end) 		Island.
	 whether geophysical tests were conducted whether water quality data are available 	4c	Data Acquisition Method(s) Field surveys.
46	Geographic Coverage Atlantic Canada.	4d	Geographic Unit(s) of Measurement Shellfish growing and harvesting areas
4c	Data Acquisition Method(s) Information obtained from field surveys, provincial waterwell	40	Period of Record 1979 - present
	records; federal, provincial and industry files	41	Update Frequency Annually
44	Geographic Unit(s) of Measurement Individual wells referenced by UTM grid, province, county, nearest community.	4a	Database Hardware/Software Configuration DATAPAC FOXBASE OBACLE RDBMS
40	Period of Record 1965 - present (data) 1991 - present (database)		PC compatible DEC VAX 3600
41	Lindate Fractionery As required	4h	Output Format(s) (Tables, Maps, etc.) Tables.
d re	Database Hardware/Software Configuration VAY ODACIE	5.	Restrictions and Conditions Access only through responsible organization.
*9 45		6.	Price Information No charge
10	Output Format(s) (tables, maps, etc.) Tables.		
5	Restrictions and Conditions None.	6.	corresponding Printed Sources Several papers and reports are available which include information from the database.
Б	Price Information No charge	8.	Languages English.
7	Corresponding Printed Sources None.	9.	User Aids Available None.
a,	Languages Database is in English.	10	Keywords Harvesting, Microbiology, Molluscs; Monitoring, New Brunswick; Nova Scotia;
5	User Alds Available None.		Pollution; Prince Edward Island; Shelftish; Water quality.
to	Keywords Atlantic Canada; Groundwater; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island; Stratigraphy; Water; Wells.	11	Additional Information The entire database coexists in PCX.DBF format as well as ORACLE RDBMS table format.
11	Additional Information This database is designed to link with SPANS groundwater models, STATGRAPHICS and HARVARD GRAPHICS. Corresponding chemical data for water wells can be found in the National Water Quality Database in Ottawa which can be downloaded to or uploaded from G W DAT		

	Atlas of Saskatchewan Birds		Automated Water Quality Monitoring Data
1.	Datafile Name(s) Not applicable	1_	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Maps showing the distribution and seasonal and breeding status of birds in Saskatchewan with accompanying text describing habitat, factors affecting abundance and detailed information for particular records.	2a.	Summary Description of Contents Information on the chemical, physical and (limited) biological quality of the transboundary waters of the Red River in Manitoba.
2 b.	Purpose of the Database. To produce accurate and up-to-date maps of the status and occurrence of birds in Saskatchewan.	26.	Purpose of the Database To provide information on surface water quality for determining frends and compliance with water quality objectives.
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4	3a.	Name and Address of Responsible Organization Water Quality Branch, Conservation and Protection, Western and Northern Region, Environment Canada, 2365 Albert Street, Regina, Saskatchewan, S4P 4K1
36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Al Smith (306) 975-4091 FAX; (306) 975-4089	36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. 3ill Gummer (306) 780-5322 FAX: (306) 780-5311
3c.	Access Mechanisms Through the responsible organization	JC.	Access mechanisme inrough the responsible organization.
4a	Variables Included (summarized if extensive) - bird species - nesting status (possible, probable, confirmed) - seasonal status (summer visitant, spring transient, fall transient, winter resident) - location	4a	Variables included (summarized if extensive) - dissolved oxygen - chloride - conductivity - pH - temperature
	- date - historical changes in distribution	4b	Geographic Coverage Transboundary waters of Red River Manitoba
40	Geographic Coverage Saskatchewan	40	Data Acquisition Method(s) Data collected at sampling stations by automatic recorders every five seconds and averaged hourly.
4c.	Data Acquisition Method(s) Field data were collected by CWS staff and a region-wide network of volunteers over a twenty-five year period.	4d.	Geographic Unit(s) of Measurement Individual monitoring stations.
4d	Geographic Unit(s) of Measurement Breeding records are mapped by 1.50,000 map sheets covering the region	40.	Period of Record 1969 - present.
40	Period of Record 1966 - 1990	41.	Update Frequency Every 5 seconds, hourly.
AI	Undate Frequency, No immediate undate is planned	49.	Datubase Hardware/Software Configuration VAX with RSI.
		4h.	Output Format(s) (tables, maps, etc.) Tables
4g.	software.	5	Restrictions and Conditions None
4 h.	Output Format(s) (tables, maps, etc.) Maps, tables, text.	6	Price Information No charge
5	Restrictions and Conditions None	7	Corresponding Printed Sources Automatic Water Quality Measurements, Red River at
6	Price Information No charge for reasonably-sized requests		Ernurson, Manicoba 1971- 1984.
7	Corresponding Printed Sources A book with distribution maps and accompanying text is in preparation	8. 9	Languages Database is in English. User Aide Available None.
8.	Languages The database is in English.	10	Keywords Freshwater; Manitoba; Rivers; Water pollution; Water quality.
9.	User Aids Available Adam, C.I.G. and A.R. Smith (1984). "The Saskatchewan Bird Atlas- A New Project", in <i>Bive Jay</i> , 42:40-43.	11.	Adcitional Information Monthly grab samples are also collected at numerous sampling locations. These data, unlike the automated sampling data, are forwarded to headquarters in Cttawa for inclusion in the National Water Quality Database.
10.	Keywords Biota; Birds; Saskatchewan; Wildlife.		
	A A MAY		

	Avian Census Plots	Avian Use of	of Agrohabitats
1	Datafile Name(s) Not applicable	Datafile Name(s) Not applicable.	
2a.	Summary Description of Contents Non-game bird counts on permanent plots in various habitat types across Canada.	Summary Description of Contents E landscapes in the Great Lakes - St. La	Bird species composition of habitats in agricultural wrence region of Canada.
2b.	Purpose of the Database To monitor long-term trends in abundance of non-game birds.	Purpose of the Database To asses registered pesticide products in Canad.	is risk to bird species of new and currently used
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St Joseph Blvd., Hull, Quebec, K1A 0H3.	Name and Address of Responsible Canadian Wildlife Service, Conservatic Ontario, K1A 0H3.	Organization Migratory Bird Surveys Division, on and Protection, Environment Canada, Ottawa,
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Kathryn Dickson (819) 953-1415 FAX: (819) 953-6283	Contact Person(s), Address (if differ Ms. Kathy Freemark (819) 997-6082	ent from 3a), Telephone and FAX Number(s) FAX: (819) 953-6612
30.	Access Mechanisms Through the responsible organization	Access Mechanisms Through the res	ponsible organization.
4a.	Variables Included (summarized if extensive)	Variables included (summarized if ex For each of 80 habitats - bird species list	densive)
4c.	Data Acquisition Method(s) Surveys conducted by volunteers using the territory mapping technique, and data submitted for inclusion in database.	 month activity (feeding, nesting, re- intensity (bird/nest density, 	posting, perching) proportion of time spent in habitat)
4d.	Geographic Unit(s) of Measurement Survey plot size varies.	 habitat description general crop type (oil seed 	s, legumes, hay, etc.)
40	Period of Record 1934 - present.	 specific crop type (alfalfa, s land area of each crop 	soybeans, com, bailey, oats, etc.)
4f.	Update Frequency Annually, following entry of historical information.	 chation (information source) 	
4g.	Database Hardware/Software Configuration DOS-based IBM microcomputer with DBASE III+ QUATTRO	Geographic Coverage Great Lakes - Ontario and a portion of southern Queb	St. Lawrence region of Canada (most of southern sec)
4h.	Output Format(s) (tables, maps, etc.) Selected parts of the file or summary tables and figures in computer format, or possibly hardcopy.	Data Acquisition Method(s) Data on from field surveys, habitat data from 19	bird species mainly from the literature, some data 86 Census of Agriculture.
5.	Restrictions and Conditions See 11; data on rare, threatened or endangered species are restricted	Geographic Unit(s) of Measurement Period of Record Database was com	Habitats of variable sizes. oleted in 1988.
6.	Price information No charge. Requester must submit floppy disks with request.	Update Frequency No updates are pl	anned.
7.	Corresponding Printed Sources None	Database Hardware/Software Config	unation Microcomputer with DBASE III software.
8.	Languages English.	Output Format(s) (tables, maps, etc.)	Tables.
g.	User Aids Available None.	Restrictions and Conditions None	
10	Keyworde Rinta Rinte Habitate Wildlife	Price Information There is no charge f	or reports: policies for database provision have unt
11	Additional Information Lines and have a branded of limitations and readilates of	to be determined.	
	avian survey data obtained from the territory mapping technique	Corresponding Printed Sources A re is in preparation.	port summarizing the information in the database
		Languages The report will be bilingua	l.
		User Aids Available None.	
		Keywords Agriculture; Biota; Birds; Ha	abitats; Ontario; Quebec; Wildlife.
		Additional Information 1 Bird species data come largely fror 2 This database has been used to as on information on bird species o habitats for which pesticides are re regime (procedure and timing). It other modifications to agricultural H 3. Consideration may be given to expa the effects of chances in habitat st	m U.S. studies, but are applicable in Canada. sess risk to bird species from pesticide use based ccurring in agricultural habitats, the agricultural agistered and used, and the pesticide application could also be useful in predicting the impact of habitats. Inding this database for the purposes of examining ructure on species use

4. The report summarizing the distribution of agricultural habitats within the region and the distribution of bird species within habitats is entitled, *Bird Use of Agricultural Habitats in the Great Lakes St Lawrence Region*. It will be a technical report available from the responsible organization.

	Background Air Pollution Monitoring Network (BAPMON)		B.C. Discharge Inventory Database
1.	Detafile Name(s) Not applicable	т.	Datzfile Name(s) Not applicable
2a.	Summary Description of Contents Measures greenhouse gases taken from samples at Cape St. James (west coast), Sable Island (east coast), and the Alert Station (high Arctic)	2a	Summary Description of Contents Information on wastewater discharges under provincial permits (municipal, industrial, mines, wood industries) and from federal facilities.
2Ь.	Purpose of the Database To have a record of background levels of the various greenhouse gases over an extended period of time.	26	Purpose of the Database To keep track of all provincially-permitted effluent discharges in B.C., and those emanating from federal facilities in B.C.
3a.	Name and Address of Responsible Organization Measurements and Analysis Research Division, Air Quality and Inter-Environmental Research, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.	3a.	Name and Address of Responsible Organization Municipal Effluents Program, Environmental Protection, Conservation and Protection, Pacific and Yukon Region, Environment Canada, 224 West Esplanade, North Vancouver, British Columbia, V7M 3H7.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Marlene L. Phillips (416) 739-4449 FAX: (416) 739-5704	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Alain David (604) 666-2699 FAX (604) 666-6858
3c.	Access Mechanisms Through the responsible organization.	Зс.	Access Mechanisms Through the responsible organization
4b 4c. 4d. 4g. 5. 6. 7.	 carbon dioxide (CO₂) methane (CH₄) CFC's (treons) ozone (O₂) ntrous oxide (N₂O) Geographic Coverage West coast - Cape St. James; East coast - Sable Island; High Arctic - Alert Data Acquisition Method(s) Flask sampling; non-dispersive infrared; gas chromatography. Geographic Unit(s) of Messurement Global background Period of Record 1975 - present. Update Frequency Annually Database Herdware/Software Configuration IBM compatible microcomputers, optical drive MS DOS, ASCII files and PARADOX files, NETWARE networking software. Output Format(s) (tables, maps, etc.) Tables of numbers. Restrictions and Conditions Access through responsible organization only Price Information None. Corresponding Printed Sources Annual Report for the Monitoring Program. Data submitted to and published by: (a) Carbon Dioxide Information Analysis Center, Oak Ridge, Tennessee; (b) World Meteorological Organization (WMO), Geneval	4b. 4c. 4d. 4e. 4f 4g 4h. 5. 6.	 site name, location category provincial Waste Management Branch region latitude and longitude discharge type, discharge description, discharge flow treatments applied to the discharge receiving water shelftsh area provincial Waste Management Branch permit number and issue date Environmental Protection file number site contact Geo graphic Coverage British Columbia. Data Acquisition Method(s) Provincial permit system and field information. Geo graphic Unit(s) of Measurement Not applicable. Period of Record 1968 - present. Update Frequency Monthly. Database Hardware/Software Configuration Mainframe DATAPOINT to be converted on COTS (ORACLE). Output Formet(s) (tables, maps, etc.) Listing using searches and sortings. Restrictions and Conditions None. Price Information No charge.
8.	Languages Data are only numbers. WMO report is available in French and English.	7.	Corresponding Printed Sources None.
9.	User Aids Available None.	8.	Languages English.
10.	Keywords Air pollution, Air quality; Carbon dioxide; Climate change; Greenhouse gases; Pollutants; Monitoring.	9.	Use: Aids Available User friendly
11.	 Additional Information 1 Flask CO, data available since 1975 2 Continuous CO, data and other greenhouse data available only for Alert Station 	10.	 Keyrwords British Columbia; Effluents; Industry; Liquid wastes, Mining; Municipal waste; Pulp and paper; Rivers; Wastes. Additional information The municipal and industrial permit information is complete. The mining and wood industry information is not as complete. Effluent quality data are available from the Waste Management Branch of the B.C. Ministry of Environment, or from Environment Canada (see 3a).

	and the second	
	Bird Banding and Recovery Database	Bird Names
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data from across Canada and the United States on bird banding and bird recovery.	2a. Summary Description of Contents Standardized sets of bird names in various languages. Taxonomy, geographic distribution, food habits, and legal status of birds in North America.
2b.	Purpose of the Database To document location and movement of birds and survey studies of birds.	2b. Purpose of the Database To standardize common names and provide basic ecological information on North America bird species
3a.	Name and Address of Responsible Organization Migratory Birds Surveys, National Wildlife Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.	 Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull Ouebock K1A Ala
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Ellen Hayakawa (819) 953-1425 FAX: (819) 953-6612	Bits Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Kathryn Dickson (819) 953-1415 FAX: (819) 953-6283
36.	Access Mechanisms Through the responsible organization. Data available on tioppy disk.	3c. Access Mechanisms Through the responsible organization.
4a	Variables Included (summarized if extensive) - bird species (all species captured are banded) - bird attributes - sex - age - condition (dead, alive, health) - banding methods	 4a. Variables Included (summarized if extensive) common names in various languages used in North and South America American Ornthological Union number and checklist order scientific name, family and order regional (by province) population status (increasing, decreasing, stable) breeding distribution (Canada, U.S., Central America, South America, offshore)
	 methods of bird characteristic determination banding and recovery locations 	4b. Geographic Coverage All North American bird species.
4b.	Geographic Coverage International (U.S.A., Mexico, Caribbean) and national, including	4c. Data Acquisition Method(s) Literature, acknowledged experts
	an provinces and remnones.	40. Geographic Unit(s) of Measurement Not applicable
4C.	general public	4e. Period et Hecord Database not yet operational
4d.	Geographic Unit(s) of Measurement Records summarized by degree or 10 minute blocks.	47. Update Frequency At irregular intervals as updated information becomes available. 49. Database Hardware/Software Configuration DOS-based microcomputer with DBASE [Vi and OVATED of theme ACOUSTING and the sector of the secto
4e.	Period of Record Recovery data: approximately 1950's - present. Banding data: 1908 - present.	 4h. Output Format(s) (tables, maps, etc.) Selected parts, entire file, or summarized fields can be produced on disk or hardcony.
4f.	Update Frequency Annually in November.	
4g.	Database Hardware/Software Configuration Micro IBM (DEC) 386 with custom software.	Nestinctions and conditions None. Price Information: No phase. Requester must submit flooruy ficks with request
4h.	Output Format(s) (tables, maps, etc.) Tables and maps available on request.	 Price intermediate into charge induction most submit hoppy disks with request. Company disk Drived Sources Market Source Market Sources Market So
5.	Restrictions and Conditions Data on threatened or endangered species are restricted, banders have first rights to data publication.	Corresponding Prince Sources Note: Languages Primarily in English; some common names in French;
6.	Price Information No charge.	some common names in Spanish.
7.	Corresponding Printed Sources Reports are prepared irregularly based on portions of the data, but no regular publications series summarizing the database information is produced	 User Aids Available Description of source for each variable included in database. Keywords Biota; Birds; Taxonomy, Wildlife.
8.	Languages English mainly used in the database. French translation relating to the database is available. Reports are bilingual.	11. Additional Information None.
9.	User Aids Available North American Bird Banding Techniques, Volume 1.	and the barries of the second second second
10.	Keywords Biota; Birds; International; Migratory birds; United States; Wildlife.	
11.	 Additional Information Publications in 7 and 9 are available from the responsible organization. Data are shared with the provinces and territories and the U.S. Fish and Wildlife Service, who may also produce publications. The publication, <i>Bird Banding in Canada: 1955-1985</i>, by Brewer and Diamond, is to be published in the CWS Report Series. 	

	Breeding Biology and Habitat of Prairie Ducks		Bulletin pH
1.	Datafile Name(s) Biological Measurements of Prairie Ducks; Breeding Biology of Prairie Ducks	1.	Datsfile Name(s) Not applicable
2a	Summary Description of Contents Characteristics of habitats used and available.	2a.	Summary Description of Contents Date, quantity of precipitation, measure of pH, path of or scipitation
	migration chronology, population census and breeding success of ducks in central Saskatchewan.	25	Purrose of the Database. Compilation of monthly sepsonal and annual statistics
~		E.C.	response of the balanced compliance of monthly, seasonal, and annual statistics.
20.	on an intensely managed portion of the prairie pothole region of central Saskatchewan	3a.	Name and Address of Responsible Organization Atmospheric Environment Service, Environment Canada, Suite 300, 100 Alexis-Nihon, Ville St-Laurent, Quebec, H4M 2N8.
За.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4.	3b.	Conlact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gilles Morneau (514) 283-1106 FAX (514) 283-7149
3b	Contact Person(s) Address (if different from 3a) Telephone and FAX Number(a)	3c.	Access Mechanisms Through the organization responsible.
	Dr Robert Clark (306) 975-4110 FAX: (306) 975-4089	4a.	Variables Included (summarized if extensive)
3c	Access Mechanisms Through the responsible organization		- quantity of precipitation
4a.	Variables Included (summarized if extensive)		- air path from which precipitation originated
	- # of pairs, broods by species		
	- breeding bensity	4b.	Geographic Coverage Ontario (Longwood, Dorset, Chalk River); Quebec (Sutton,
	resting chronology		Montmorancy Forest), Nova-Scotia (Kejimkujik)
	 nest site and nabital characteristics (cover, water level, crop) nesting success 	4c.	Data Acquisition Method(s) Sampling stations
4b.	Geographic Coverage Central Saskatchewan	4d	Geographic Unit(s) of Measurement Latitude, longitude
4c.	Data Acquisition Method(s) Field surveys carried out within 1 1/2 mi ² area	4e	Peric d of Record 1985 to date.
4d.	Geographic Unit(s) of Measurement Individual ponds and fields	4f.	Update Frequency Monthly.
4e.	Period of Record 1980 - present.	4g.	Database Hardware/Software Configuration LOTUS 1-2-3, IBM-PC.
\$f.	Update Frequency Annually	4h.	Output format(s) (tables, maps, etc.) Data only.
ŧg.	Database Hardware/Software Configuration Minicomputer with custom software	5.	Restrictions and Conditions No restrictions.
\$h	Output Format(s) (tables, maps, etc.) Tables.	6.	Price Information Cost recovery.
5.	Restrictions and Conditions None	7.	Corresponding Printed Sources The Canadian Air and Precipitation Monitoring Network
6.	Price Information No charge.		poentries results of the monthy.
7_	Corresponding Printed Sources Annual report prepared; data used in numerous journal publications.	8.	Languages Annual Internal Publications are in French; data base is in English and French.
3.	Languages Database and publications in English.	9.	User Aids Available None.
9.	User Aids Available None	10.	Keywords Acid precipitation; Nova Scotia; Ontario; Precipitation; Quebec
0.	Keywords Biota; Birds, Ducks; Ecosystems; Habitats; Nesting; Prairies, Waterfowl, Wetlands: Wildlife: Saskatchewan	11.	Additional Information The purpose of this network is to identify available information only. An assessment of the scientific validity/data quality of the contents in the file has not been made.
11.	Additional Information None		uopi mauo.

En	vironment Canada		
	Canada Geographic Information System (CGIS)		Canadian Air and Precipitation Monitoring Network (CAPMON)
1	Datafile Name(s) See 11	1	Datafile Name(a) Not applicable
	Promiting complexity of the		Protective reserved as from application.
2a.	Summary Description of Contents Canada Land Inventory (CLI), including suitability for agriculture, forestry, recreation, wildlife and land use along with other administrative layers including census divisions, watersheds and ecological land units. This database contains numerous sub-databases.	2a.	Summary Description of Contents Daily sampling of air and precipitation and ancillary meteorological parameters for acidifying air pollutants and ozone. Prince Edward island and the Yukon Territory are not included. Data will be incorporated in the NATCHEN database and the U.S. Atmosphere Deposition System (ADS).
26.	Purpose of the Database To provide baseline digital mapped data for environmental and resource management planning decisions and for state of the environment reporting.	2b.	Purpose of the Database. To provide data on spatial and temporal variations, determine long-term trends, verify long-range transport models/processes and standardize other networks.
la.	Name and Address of Responsible Organization Environmental Information Systems Division, State of the Environment Reporting, Environment Canada, 10th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3	За.	Name and Address of Responsible Organization Measurements and Analysis Research Division, Air Quality Research, Atmospheric Environment Service, Environmen Canada 4905 Dufferin Street Downsview Ontario M3H 514
3b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Ernie Beaudette (819) 953-1467 FAX: (819) 953-3972	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Marlene L. Phillips (416) 739-4449 FAX: (416) 739-5704
Зс.	Access Mechanisms Through the responsible organization.	30	Access Mechanisma Through the responsible organization
4a.	Variables Included (summarized if extensive)		
	Iand capability class Imitation subclass	4a.	Variables Included (summarized if extensive)
	- land cover		• amount
	- land activity		 hydrogen (H*), sulphate (SO₄*), nitrate (NO₃), chlorine (C1) andrum (Ma*), contaction (K*), colored (Ma*), contaction (Ma*), c
ŧЬ	Geographic Coverage Canada (latitude, longitude; UTM; Lambert conformal and conic projections).		 Solum (val), polassium (K.), calcium (Ca.), magnesium (Mg.), amnonium (NH4') air
łc.	Data Acquisition Method(s) Map interpretation.		 sulphur dioxide (SO₂) nitric acid (HNO₃) (gaseous)
Id.	Geographic Unit(s) of Measurement Homogeneous map unit by thematic variable		 sulphate (SO₄⁺), nitrate (NO₃), chlorine CI), ammonium (NH₄), potassium (K[*]) ozone (O₃)
le.	Period of Record 1960 - present.	4b	Geographic Coverage National - 24 stations in rural areas. All provinces and territories
lf.	Update Frequency Ongoing		except P.E.L and Yukon.
4g.	Database Hardware/Software Configuration Canada Geographic Information System, Service Bureau IBM mainframe	4c.	Data Acquisition Method(s) Daily sampling of precipitation in wet-only collectors using plastic bags. Daily sampling of air using 3-stage filter pack system with tellon, nylon and cellulose filters. Continuous measurement of ozone using the UV absorption technique.
lh.	Output Format(s) (tables, maps, etc.) Maps, tables, text, digital files (see 11).	4d.	Geographic Unit(s) of Measurement Site specific measurements at regionally representative sites.
5.	Restrictions and Conditions Contact responsible organization.	40	Period of Decord 1993 - present
ð.	Price Information Cost recovery policy	46	Hadele Economic Actually
7	Corresponding Printed Sources	441.	opulate requercy Annually
	1. Various maps.	49	Database Hardware/Software Configuration Mainframe computer, SAS.
	2. The State of Canada's Environment (1991). 3. Environmental Indicators reports.	4h	Output Format(s) (tables, maps, etc.) Tables of numbers.
9.	Languages Maps are bilingual. All reports are in English; some are also in French.	5.	Restrictions and Conditions Access only through responsible organization.
	Dalabase is in English	6.	Price Information None.
9.	User Atos Available	7	Corresponding Printed Sources
	2. CLDS/CGIS catalogue of reports.	([']	1. Annual CAPMON Data Reports.
	 EIS summary catalogue of SPANS databases. EIS digital data file formats. 		 ADS (U.S. Atmospheric Deposition System Database) Annual Data Summary. Database reports from the National Air Pollution Surveillance System (NAPS).
10.	Keywords Agnoulture; Ecosystems; Federal properties; Forestry; GIS; Land; Land use; National party: Respectively areas: Sail campbilities Libban proce. Watershald, Wildlife	8.	Languages All reports are in English with some also in French. Database is in English
	remonar perna, rieureascoriar areas, con capacisillos, crican areas, viatorsneus, visitine.	9.	User Aids Available None.
11.	Additional Information Sub-databases are Agricultural Land Capability, Ecological Land Classification, Forestry Land Capability; Fruitlands; National Parks; Recreational Land Capability; Ungulate Land Capability; Urban Centred Regions; Waterfowl Land Capability.	10.	Keywords Acid precipitation; Air pollution; Air quality; Monitoring; Ozone; Precipitation Pollution
	There are numerous others that contain useful environmental information.	11.	Additional Information None.
		[

	Canadian Council of Ministers of the Environment PCB Inventory		Canadian Great Lakes Coastal (GLCZDB)	Zone Database
1.	Datafile Name(s) Not applicable.	1	tafile Name(a) Not applicable	
2a.	Summery Description of Contents Inventory of polychlorinated biphenyls storage sites and in-use PCBs and PCB items at each site. Information on askarel and contaminated mineral oil and equipment (transformers, capacitors, regulators, etc.).	2a.	rr mary Description of Contents Information o d erosion hazard areas, environmentally sensitive	n shoreline land use, structures, flood e areas and nearshore characteristics.
2b.	Purpose of the Database To provide the Canadian Council of Minister of the Environment with a national inventory of PCBs in support of the PCB phase out strategy.	2b.	rpose of the Database To evaluate the impact net and to use as a tool in shoreline management	s of changing lake levels on the shcre ht
3a	Name and Address of Responsible Organization Waste Management Branch, Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3,	3a.	nie and Address of Responsible Organizatio ar ch, Inland Waters Directorate, Ontario Region, ad, Burlington, Ontario, L7R 4A6	n Water Planning and Management Environment Canada, 867 Lakeshore
3Ь	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. J. Stevenson (819) 994-0599 FAX: (819) 997-3068	3b.	rtact Person(s), Address (if different from 3a . William Blen (416) 336-4948 FA)), Telephone and FAX Number(s) K. (416) 336-4906
3c	Access Mechanisms Through the responsible organization.	4c.	cess Mechanisms Through the responsible on	ganization
	· · · · ·	4a.	riables included (summarized if extensive)	
4a	Variables Included (summarized if extensive)		land use in shoreline buffer	
	- owner information		number of buildings in reach	
	site information (address, postal code, geocode, contact person)		erosion rate data	
	- equipment/waste information		erosion and flood hazard areas	
	 equipment/waste type (transformer, capacitor, regulator, etc; plus barrets of soil, 		location of wetlands	
	debris, light ballasts, oil, water, sludge, etc.)		nearshore contours, wave energy	
	· equipment status (in use, in storage for future use, in storage for disposal,	1	major fetch, fetch of 8 compass points	
	disposed)	1.0	offshore lake bottom material	
	· capacity (Hires of kg)		per cent shore protection	
	total universe as weight (additionity is not elivite)	1.00	sediment transport volume	
	PCB type (askarel contaminated mineral oil)	Ab	uurranhie Couereas Grant Lakas St. Lauraas	e Diver chereline
	PCB concentration in contaminated mineral oil (com)	40.		e niver storeline.
	PCB contamination level of other wastes (ppm, or H/M/L/)	4c.	ta Acquisition Method(s) From aerial photogra	on and existing data sources.
	 manufacturers serial number (in-use only) 			
	EP PCB label number (in-use only)	4d.	ographic Unit(s) of Measurement Shorelin ysiographic conditions	e divided into reaches of uniform
46	Geographic Coverage National, all provinces and territories.			
4c.	Data Acquisition Method(s) Reports from private or government agencies under	40	Iod of Record Some data cover a time period in the mid-1980's.	since about 1970, other portions are
	supplied by each of the regional offices twice a year.	41.	date Frequency None at present.	
4d	Geographic Unit(s) of Measurement Site specific information.	4g.	tabase Hardware/Software Configuration CC	MPAG DESKPRO 386, SPANS GIS
40.	Period of Record 1988 - present.	4h.	put Format(s) (tables, maps, etc.) Maos, tab	les diskettes
4f.	Update Frequency Every six months.			en, elenence.
4g.	Database Hardware/Software Configuration Micro DEC 325, DBASE-III +	0	surregions and conditions. Contact responsible	organization.
4h	Output Format(a) (tables, maps, etc.) Tables	0	ce information. Not yet considered.	
5	Restrictions and Conditions Currently information on waste is public, but in-use information is protected.	7.	responding Printed Sources Much of the in orts and files at Canada Centre for Inland Water	iformation has been abstracted from 15.
6	Price Information Not yet established	8	iguages English	
7	Corresponding Printed Sources Annual reports.	9.	or Aids Available No manuals are available for	this application.
8	Languages Reports are bilingual.	10.	words Bathymetry; Environmentally sensitive a es, Lakes, Land use; St. Lawrence Rivor; Wate	areas; Erosion; Flood risk; GIS, Great r levels; Wetlands.
g	User Aids Available None.	11.	ditional Information This database is presently	in the development phase
10	Keywords Contaminated sites: Contaminated wastes; Contaminants, Hazardous materials, PCBs; Polychlorinated biphenyls; Waste disposal, Waste inventory, Wastes.			
11	Additional Information			
-	1 Waste information for areas under federal invisition in qualitable from the monomial			
	organization. Other information on waste is available from provincial environment ministries.			
	2 Each regional office of Environment Canada maintains a database and forwards regional PCE information to Headquarters for inclusion in this database.			

	Canadian Inventory of Historic Buildings (CIHB)		Chemical Profiles Database - Schedule II Transportation of Dangerous Goods (CHEMPROF)
	Datafile Name(s) Historic Sites and Monuments Board of Canada (HSMBC) Federal Hertage Buildings Review Dffice (FHBRD-including register of Federal Hertage Buildings)	1.	Datafile Name(s) Not applicable
?a.	Summary Description of Contents Architectural, historical and geographical information on buildings in Canada.	2a.	Summary Description of Contents National database covering over 900 pure chemicals under the Transportation of Dangerous Goods Regulations including chronic, acute and aquatic toxicity information.
26.	Purpose of the Database To provide support for the HSMBC and FHBRO and to serve the general public. The FHBRO also serves other federal departments.	26	Purpose of the Database To update regulations under the Transportation of Dangerous Goods Act and to maintain information on the transportation of dangerous chemicals.
la.	Name and Address of Responsible Organization Canadian Inventory of Historic Buildings, Canadian Parks Service, Environment Canada, 3rd Floor, 10 Wellington Street, Hull, Quebec, K1A 0H3	3a.	Name and Address of Responsible Organization Waste Management Branch Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
sb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Richard Martineau (819) 994-2867 FAX. (819) 953-4909	Зb.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Luke Trip. (819) 953-3415 FAX: (819) 997-3068
BC.	Access Mechanisms Through the responsible organization.	4c.	Access Mechanisms Through the responsible organization; data available on floppy disk
la.	Variables Included (summarized if extensive) - architectural features - historical data - geographical location - evaluation of federally owned buildings - designations of Federal Heritage Buildings	4a.	Variables Included (summarized if extensive) - chemical name - physical and chemical properties (melting point, solubility, specific gravity) - aquatic toxicity (lethal concentrations for various aquatic species) - acute toxicity (mammalian) - chemical group (21 groups such as amines, halogenated chemicals, organic acids and species)
b.	Geographic Coverage Canada.		esters, miscellaneous organics, pesticides, organo compounds) - chronic toxicity for humans (carcinogenic, teratogenic data)
c.	Data Acquisition Method(s) Field surveys (220,000 records), volunteer survey information exchange, extraction form researched sources, recommendations of HSMBC and FHBRO.		 United Nations chemical class (explosives, gases, flammable solids, radioactive corrosive, etc.) hazard rank (1-highest to 3-lowest) within each class chemical abstract series number
d.	Geographic Unit(s) of Measurement Not applicable	4b	Geographic Coverage National, all provinces and territories; over 900 chemicals in the database
e.	Period ef Record 1914 - present	4c	Data Acquisition Method(s) Literature survey
lf.	Update Frequency On-going as information and research is received	4d	Geographic Unit(s) of Measurement Not applicable.
g.	Database Hardware/Software Configuration Mainframe - IBM/COBOL, CRDSSTALK MICROCOMPAQ and TDSHIBA - DBASE IV, WORDPERFECT, SYMPHDNY.	4e.	Period of Record 1988 - 1990.
h.	Output Format(s) (tables, maps, etc.) Printed reports - encoded or verbalized; also,	4f	Update Frequency Formerly irregular; no longer updated
	photographs, maps, plans, research occuments, etc.	4g	Database Hardware/Software Configuration Microcomputer with DBASE III + software
	Price Information Often based on information exchange agreement on charge for	4h	Output Format(s) (tables, maps, etc.) Tables and text.
	reasonably-sized requests	5	Restrictions and Conditions None.
	Corresponding Printed Sources HSMBC - Catalogue of Extant Buildings in Canada (buildings on National Historic Sites).	6	Price Information Not determined.
3,	Languages English and French.	7.	Corresponding Printed Sources None at present.
).	User Aids Available Exterior Recording Training Manual	8	Languages Text is in English.
0.	Keywords Architecture; Historic sites.	9.	User Aids Available Menu provided with database.
1	Additional Information Several of the microcomputer applications are extended subsets with additional researched information, e.g. the Data Verification (DV) System relating to	10.	Keywords Chemicals; Hazardous materials; Toxics; Transportation; Transportation of dangerous goods.
	research documents and the National Parks Building Database. Also, a database on Heritage Contacts and Industrial/Manufacturing Complexes in Canada is available.	11.	Additional Information None
		1	

Canadian Parks Service (CPS) Basic Resource Inventory

- 1. Datafile Name(s) Numerous datafiles organized by national park
- 2a. Summary Description of Contents Geographic and biophysical data on national parks such as geology, soils, wildlife, vegetation, forestry, and hydrology by biophysical land units
- 2b. Purpose of the Database To provide the basis for environmental and resource management plannning decisions in Canada's national parks according to land capability to support wildlife, recreation, forestry and agriculture.
- 3a. Name and Address of Responsible Organization Natural Resources Branch, Canadian Parks Service, Environment Canada, 2nd Floor, 10 Wellington Street, Hull, Quebec, K1A 0H3.

** and Regional Offices of the Canadian Parks Service (see 11).

- 3b. Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Ms. Nicole Sarrazin (819) 994-5523 FAX (819) 953-8484
- 3c. Access Mechanisms Through the responsible organization

4a Variables included (summarized if extensive)

- vegetation cover (herbaceous and crown)
 - soils
 - hydrology geomorphological leatures
 - special features
- wildlife

4b. Geographic Coverage Canadian national parks, see 11.

4c. Data Acquisition Method(s)

- air photo analysis
- ground truthing
- biophysical surveys literature reviews
- resource studies
- 4d. Geographic Unit(s) of Measurement Scales vary with size and location of park; information referenced to latitude, longitude.

4e. Period of Record 1965 - present (data) 1975 - present (database)

- 4!. Update Frequency As required.
- 4g. Database Herdware/Software Configuration SPANS Geographic Information System (GIS), IBM compatible microcomputer
- 4h. Output Format(s) (tables, maps, etc.) Maps, tables, numerous reports
- 5. Restrictions and Conditions None.
- 6. Price Information Some costs may apply, depending on the request for information.
- Corresponding Printed Sources Numerous reports are available on biophysical resources in Canadian national parks.
- 8. Languages English in all regions except Quebec where data are in French.
- 9. User Aids Available None
- 10. Keywords GIS: Historic sites; Hydrology, National parks, Physiography; Wildlife
- Additional Information Regional Offices of the Canadian Parks Service responsible for national parks data.

ATLANTIC REGION PARKS: Cape Breton Highlands; Fundy; Gros Morne, Prince Edward Island; Kejimkujik; Kouchibouquac

CONTACT: Don Harris, Chief, Natural Resource Conservation, Atlantic Region, Canadian Parks Service, Historic Properties, Upper Water Street, Halifax, Nova Scotia B3J 1S8 Tel. (902) 426-3401 FAX: (902) 426-7012

RÉCION DU QUÉBEC PARCS: FORILLON; LA MAURICIE, MINGAN ARCHIPELAGO

CONTACT: Alain Dufresne, Chef, Conservation des ressources naturelles, Région du Quebec, Service canadien des parcs, 3, rue Buade, C.P. 6060, Haute-Ville, Québec G1R 4V7 Tél. (418) 648-4049 FAX: (418) 648-4234

ONTARIO REGION PARKS: Bruce Peninsula, Georgian Bay Islands, Point Pelee, Pukuskwa, Saint Lawrence Islands

CONTACT: Jim Barlow, Chief, Natural Resource Conservation, Ontario Region, Canadian Parks Service, 111 Water Street, Cornwall, Ontario K6H 4V7 Tel. (613) 938-5931 FAX: (613) 938-5785

PRAIRIE AND NORTHERN REGION PARKS: Auguittug, Grasslands; Kluane; Nahanni, Elle: mere Island, Northern Yukon; Prince Albert; Riding Mountairi, Wood Buffalo

CONTACT Doug Kerloot, Chief, Natural Resource Conservation, Prairie and Northern Region, Canadian Parks Service, 457 Main Street, 4th Iloor, Winnipeg, Manitoba R3B 3E8 Tel. (204) 983-3113 FAX. (204) 983-2014

WEISTERN REGION PARKS: Banff; Elk Island; Glacier; Jasper, Kootenay, Mount Revelstoke; Pacific Rim; South Moresby; Waterton Lakes; Yoho

Kurtis Seel, Chief, Natural Resources Conservation, Western Region, Canadian Parks Service, P.O. Box 2989, 220-4th Avenue S.E., Postal Station "M", Calgary, Alberta T2P 3H8 Tel. (403) 292-4458 FAX. (403) 292-4746

	CITES (Convention on International Trade in Endangered Species) Import/Export Permits		Coastal Waterfowl Survey
1.	Detafile Name(s) Not applicable	Datafile Ne	me(s) Not applicable
2a.	Summary Description of Contents Import and export permits and certificates for live specimens and endangered species products related to the Convention on International Trade in Endangered Species (CITES).	. Summery I coastal wat	Description of Contents Information on the distribution and abundance of erfowl populations in parts of Atlantic Canada during spring, winter and fall.
2b.	Purpose of the Database For use in the control international trade of endangered species through a permit system.	waters.	TUTNE Diatablespie 10 document bird distribution and abundance in coastai
20. 3a. 3b. 3c. 4a. 4b. 4c. 4d. 4d. 4d. 4d. 4d. 4f. 5.	 Purpose of the Database Point use function international trade of endangered species through a permit system. Name and Address of Responsible Organization. Convention on International Trade in Endangered Species, Canadian Wildlife Service, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Jean Robillard (819) 997-1840 FAX. (819) 953-6283 Access Mechanisms. Through the responsible organization. Variables Included (summarized if extensive) importer/exponent name species in trade quantity purpose of trade permit number Geographic Coverage International. Data Acquisition Method(s). Permits issued in Canada and permits forwarded by Canada Customs to the responsible organization. Geographic Unit(s) of Measurement. Not applicable. Period of Record. 1975 - present. Update Frequency: As permits are received. Database Hardware/Software Configuration. VAX 6440 with ORACLE and DBASE III. Output Format(s) (tables, maps, etc.). Tables. Restrictions and Conditions. Names of importers/exporters are confidential, but summary. 	 Name and Environmer Sackville, N Contact Pe Mr. Bruce J Access Me Variables I numbe bird loo bird loo pre and winter Geographi Data Acqu Geographi Data base I Output For Restriction 	Address of Responsible Organization Wildlife Conservation and tal Quality, Conservation and Protection, Atlantic Region, Environment Canada, lew Brunswick, EOA 3CO. wroon(s), Address (if different from 3a), Telephone and FAX Number(s) ohnson (506) 536-3025 FAX: (506) 536-3028 whether the responsible organization or contact person. Included (summarized if extensive) r of birds sation survey d post-season counts inventory c Coverage Maritime Provinces. istion Method(s) Aerial surveys. c Unit(s) of Measurement Survey blocks of varying sizes. Record 1966 - present. requency Irregular. Hardware/Software Configuration Digital database. mat(s) (tables, maps, etc.) Tables of numbers broken down by species. as and Conditions None mation No charge.
5.	Restrictions and Conditions Names of importers/exporters are confidential, but summary data are available	Price Infor Correspon	mation No charge ding Printed Sources Several reports have been published which contain
6.	Price Information Contact responsible organization.	parts of the	information contained in the database.
7.	Corresponding Printed Sources Annual reports are prepared summarizing information for species on the CITES list	Language: User Aids	s English.
8. 9.	Languages The database is in English; the reports are bilingual. User Aids Available None.). Keywords Wildlife.	Biota, Birds, New Brunswick, Nova Scotia; Prince Edward Island; Waterfowl;
10. \$1.	Keywords Birds, Endangered species, Permits, Trade, Wildlife Additional Information None	t. Additional being prepr	Information A publication, Maritime Aerial Waterfowl Surveys 1967-1989 is ared

		-	Committee on the Status of
	Colonial Birds in the Maritimes		Endangered Wildlife in Canada Database
1.	Detafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents Information on the distribution and abundance of colonial birds (great blue heron, blackback gull, common tem, arctic tern, black-crowned night heron) in parts of Atlantic Canada.	2a.	Summary Description of Contents Information on nationally vulnerable, threatened and endangered species for which status reports have been produced.
2b	Purpose of the Database To monitor the status of bird populations and colonies in the Maritime Provinces	2b.	Purpose of the Database To assess the national status of selected plant and animal species to determine protection priorities and provide information relevant for developing recovery plans.
3a	Name and Address of Responsible Organization Canadian Wildlife Service, Environment Canada, Sackville, New Brunswick, EOA 3CO	За.	Name and Address of Responsible Organization Committee on the Status of Endangered Wildlife in Canada, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3b	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr A Smith (506) 536-3025 FAX: (506) 536-3028	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Sylvia Normand (819) 997-4991 FAX (819) 953-6283
3c.	Access Mechanisms Through the responsible organization or contact person	Зс.	Access Mechanisms Through the responsible organization
4a.	Variables Included (summarized if extensive)	4.2	Varishina Instand (automatized if extension)
	- location of colonies	40	- species name (Latin, common)
4h	Geographic Coverage Maritime Provinces (nrimarily coastal areas)		- axonomic history
40	construction of the state of th		- labitat (description, ownership)
4c.	Data Acquisition Method(s) Ground and aerial surveys.		- population biology and ecology
4d	Geographic Unit(s) of Measurement Individual bird colonies		- nanagement activities
			- legal status
40	Period of Record 1960 - present.		- status assessment
41	Update Frequency Annually.		information sources itatus report author
4g	Database Hardware/Software Configuration IBM Desktop; hard copy - binder form or topographic charts.	4b	Geo;graphic Coverage Canada
4h.	Output Format(s) (tables, maps, etc.) Mainly survey sheets summarizing variable	4c	Data Acquisition Method(s) Status reports prepared by individuals or organizations.
	information	4d.	Geographic Unit(s) of Measurement Species specific information.
5.	Restrictions and Conditions None.	40	Period of Record 1977 - present.
6	Price Information No charge	41.	Update Frequency Irregularly, as status reports are prepared or revised.
7.	Corresponding Printed Sources Numerous reports have been released which contain parts of the information contained in the database.	49	Database Hardware/Software Configuration Hardcopy files.
8	Lengueges English.	4h.	Output Format(s) (tables, maps, etc.) Text with accompanying figures and maps.
q	Lies Alde Available None	5	Restrictions and Conditions None.
10	Kenwarde Rista Dird adapting Dirde New Dynamick New Seate Drive Edward Liked	6.	Price Information No charge for reasonably-sized requests.
10.	Wildife.	7.	Corresponding Printed Sources Annually two lists are produced on: all species and
11.	Additional Information None		annual report is prepared for the Federal-Provincial Wildlife Conference.
		8.	Lançuages Most of the status reports are in English, others in French.
		9	User Aids Available A guide to preparing status reports is available (see 11).
		10_	Keyvrords Amphibians; Biota, Biotic response; Birds; Endangered species, Fish; Mammals; Plants; Rare plants; Reptiles; Wildlife.
		11.	Additional information
			1. A book on endangered species in Canada has been prepared by State of the
			Invironment Reporting Branch, Ottawa.
			retailed ecological studies of some species.
			 Species status is determined at the annual COSEWIC meeting in April based on information provided in status reports.

	Conservation Areas Database		Co-operative Breeding Bird Survey
1	Datafile Name(s) Not applicable	1. 1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents List of protected environmental sites across Canada. International Union for Conservation of Nature and Natural Resources protected areas	2a. 4	Summary Description of Contents Numerical data from nationally distributed locations on species and numbers of breeding birds by species.
	and landmark, managed nature reserve/wildlife sanctuary, protected landscape or seascape, resource reserve, natural biotic area/anthropological reserve, multiple-use management area/managed resource area, biosohere reserve. World Heritage Site.	2b.	Purpose of the Database To assess trends in songbird populations across Canada and North America with joint surveys conducted in the United States.
2b.	Purpose of the Database To inventory managed and protected areas across Canada.	3a.	Name and Address of Responsible Organization National Wildlife Research Centre Canadian Wildlife Service, Conservation and Protection, Environment Canada, 10 Gamelin Blvd., Hull, Quebec, K1A 0H3.
3a.	Name and Address of Responsible Organization: Environmental Information Systems, State of the Environment Reporting, Environment Canada, 10th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	3b. I	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Ellen Hayakawa (819) 953-1425 FAX: (819) 953-6612
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ernie Beaudette (819) 953-1467 FAX: (819) 953-3972	3c	Access Mechanisms Through the responsible organization.
3с.	Access Mechanisms Through the responsible organization.	4a 1	Variables Included (summarized if extensive) species (mostly songbirds/passerines but other common groups include terns, se guils shorebirds)
la.	Variables Included (summarized if extensive) - for each protected area		number of breeding birds determined by counts of singing males or by sight.
	Iatitude & longitude province name	4b.	Geographic Coverage International (US), and national, mainly in the provinces with som lemitorial coverage.
	urisdiction source of data	4c.	Data Acquisition Method(s) Data collected by volunteers along car-driven transects.
	type of area legal protection	4d.	Geographic Unit(s) of Measurement Individual transects (250 across Canada), latitud and longitude to the minute for transect starting point.
	 area 	40.	Period of Record 1966 - present
	year established authorization legislation	4f	Update Frequency Annually, in February.
	management authority natural region	4g.	Database Hardware/Software Configuration Micro IBM AT, custom and DBASE I software
46	Geographic Coverage Mainland Canada & islands.	4h	Output Formatis) (tables, maps, etc.) Tables.
٩c.	Data Acquisition Method(s) Survey of lederal, provincial and territorial departments.	5	Restrictions and Conditions Data on threatened or endancered species are restricted
\$d	Geographic Unit(s) of Measurement Site specific	6	Price Information No charge
4 0 .	Period of Record 1883 - 1989	7	Compensation Drinted Service. Accurate are available up to 1990: an appun
4f.	Update Frequency As required.	1	report for 1989 is in preparation.
4g.	Database Hardware/Software Configuration IBM-PC or compatible microcomputer.	8.	Languages Reports are bilingual.
4 <u>h</u> .	Output Format(s) (tables, maps, etc.) Maps, statistical summaries, fact sheets, charts, digital files	9.	User Aids Available The first 10 years of the cooperative breeding bird survey i Canada, CWS Report Series No. 42, 1978.
5.	Restrictions and Conditions None.	10.	Keywords Biota, Birds, International; United States; Wildlife.
6.	Price Information Undetermined	11.	Additional Information A key to Canadian Wildlife Service and U.S. Fish and Wildlife
7.	Corresponding Printed Sources Not applicable		Service songbird monitoring programs is available.
8.	Language(s) English.		
9.	User Alds Available None.		
10.	Keywords Historic sites; National parks; Wildlife; World Heritage Sites		
11.	Additional Information None.		

	Current Meter System	Data Management System of the Bacteriological Quality of Shellfish Areas Surveillance Programme
1	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Time series of water current data in the Great Lakes, except Lake Michigan.	2a. Summary Description of Contents Data on the bacteriological quality of water i she lfish regions of Quebec (Magdelen Islands, Lower St. Lawrence, Gaspé, North Shore)
2b. 3a.	Purpose of the Database Data are used for: transport modelling; modelling the dispersion of contaminants; estimates of effects on shore structures; search and rescue and other scientific studies. Name and Address of Responsible Organization. Computing and Programming Section, Research Support Division, National Water Research Institute; Canada Centre for Inland Waters; Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, 1000 Marcel Section, Statement Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, 1000 Marcel Section, Section 2000 Marcel Section, Section 2000 Marcel Section, Section 2000 Marcel Section, Section 2000 Marcel Section 2000 Ma	 2b Purpose of the Database To monitor environmental quality for regulatory purposes. 3a. Name and Address of Responsible Organization Environmental Protection Conservation and Protection, Environment Canada, 1179 de Bleury, Montreal, Quebe HBC 3H9. 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
	L/H 4Ab.	Mr. Hejean de Ladurantaye (514) 283-6925 FAX: (514) 283-4423
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mrs. Jo-ann Hodson (416) 336-4627 FAX (416) 336-4989	3c. Access Mechanisms Through the organization responsible.
	Mr Maurice Kerman (416) 336-4945 FAX: (416) 336-4989	4a Variables Included (summarized if extensive) - faecal coliforms
Зс.	Access Mechanisms Through the responsible organization.	hydrological and meteorological factors pollution sources
4a.	Variables Measured (summarized if extensive) - water temperature - speed of current direction of extension	4b. Geographic Coverage Lower St. Lawrence, North Shore, Gaspé, Magdelen Islands.
	- direction of current	4c. Data Acquisition Method(s) Sampling.
4b.	Geographic Coverage Great Lakes, except Lake Michigan, can include smaller lakes across Canada	4d Geographic Unit(s) of Measurement Data are reported by point and by sector.
4c.	Data Acquisition Method(s) Individual monitoring stations.	4e Period of Record Since 1969.
4d	Geographic Unit(s) of Measurement Site specific measurements	41 Update Frequency Yearly
40.	Period of Record 1967 to present	4g. Database Hardware/Software Configuration PC compatible microcomputer, AUTOCA DBASE.
41.	Update Frequency Time series at 20-minute intervals.	4h. Output format(s) (tables, maps, etc.) Maps and tables.
4g.	Database Hardware/Software Configuration Data are stored on a CYBER Mainframe computer; data can be downloaded to connected personal computers.	5. Restrictions and Conditions None.
45	Output Format/a) (tables mans att.) Listings statistical summaries time series plots	6. Price Information None
	tapes.	7. Corresponding Printed Sources None.
5.	Restrictions and Conditions No confidentiality or access restrictions. Searches are carried out by personnel of the responsible organization.	8. Languages French.
6	Price Information No charge	9. User Aids Available None.
w.	The membrane recordings.	to Keywords Crustaceans, Marine, Microbiology, Molluscs; Quebec: Regulatory contr
7.	Corresponding Printed Sources Various research reports use the data contained in this database. Generally, the publications contain summary data whereas the database	Water quality.
	contains raw data.	11 Acditional Information None.

- 8. Languages English.
- 9. User Aids Available Documentation is available in tape formats with a summary of each program and how to execute it.
- 10 Keywords Great Lakes; Lakes; Ontario; Water; Water currents, Water temperature.
- 11 Additional Information Not applicable

	Database on Dredging and Sediment Quality in the St. Lawrence River	Domestic Substances List (DSL)
1	Datafile Name(s) Not applicable	1. Datafile Name(s) Domestic Substances List Non-Domestic Substances List.
2a.	Summary Description of Contents Results of sediment samples taken at dredging sites as well as information on the dredging projects themselves.	2a. Summary Description of Contents A list of chemical substances imported into or manufactured in Canada between 1984 and 1986.
2b. 3a.	Purpose of the Database Provides information on dredging projects and the quality of river bottom sediments. Name and Address of Responsible Organization St. Lawrence Centre, Environmental Technologies Development Directorate. Conservation and Protection. Environment Canada	2b. Purpose of the Database To maintain a list of substances in Canadian commerce in order to determine whether a substance is existing or new to Canada. New substances are subject to reporting requirements prior to manufacture or import and are assessed pursuant to Canadian Environmental Protection Act (CEPA), Section 25-32. 3.
3b	Suite 400, 105 McGill Road, Montreal, Quebec, H2Y 2E7.	3a. Name and Address of Responsible Organization New Substances Di Commercial Chemicals Branch, Environmental Protection, Conservation and Prote Environment Canada, Ottawa, Ontario, K1A, DH3.
	Mrs. Lucie Olivier (514) 496-2272 FAX: (514) 283-9451 Mr. René Rochon (514) 496-2272	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Division Chief (819) 997-4336 FAX: (819) 953-7155
3c.	Access Mechanisms Through the responsible organization	3c. Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive)	
	 volume of sediments dredged sediment grain size metals 	 4a. Variacides included (summanzed if extensive) Manufacturers and importers may claim confidentiality for any of the following parameters, but claim must be substantiated. substance name (exact chemical identify) (masked name for confidential substances), and of the substance of the substance of the substances.
	- organic compounds	- substance Chemical Abstracts Service Registry Number
46.	Geographic Coverage St Lawrence River and Saguenay River.	 amount (imported or manufactured in 1986) use (absorbent, abrasive, coagulant, etc.)
4c.	Data Acquisition Method(s) Sampling.	- import destination (province/territory)
4d	Geographic Unit(s) of Measurement Dredging site	4b Geographic Coverage National, all provinces and territories.
40.	Period of Record 1977 to date.	4c. Data Acquisition Method(s) Substance producers and importers voluntarily submit info to DOE, according to technical original developed by DOE, based on CEPA.
41.	Update Frequency Yearly	Ad Geographic United of Measurement Individual substances
4 g	Database Hardware/Software Configuration Microcomputer; ORACLE, SPANS.	40. Georgeophic Gringe) of monocurement, individual substances.
4h.	Output format(a) (tables, maps, etc.) Maps, tables, lists	46. Period of Hecord 1954 -
5.	Restrictions and Conditions Requests subject to review	 Update Frequency Regularly following notification and assessment of substances and reaching certain volumes of import or manufacture as prescribed by regulation (effective Jan. 1, 1987).
6.	Price Information None	4g. Database Hardware/Software Configuration MICROVAX with ORACLE software.
7.	Corresponding Printed Sources None.	4h Output Format(s) (tables mans etc.) Tables: on compact disk tape hard copy
8.	Languages French	
9.	User Aids Available None	 Hestrictions and Conditions Data on some substances are restricted. Data will not be directly accessible. Consult the responsible manager.
10.	Keywords Dredging; GIS; Heavy metals; Organic pollutants; PCBs; Pesticides; PAHs; Polychlorinated biphenyls; Polycyclic aromatic hydrocarbons, Sediments, St. Lawrence	6. Prise Information Not yet determined.
	River, Water quality.	 Corresponding Printed Sources The final DSL will be in Canada Gazette II (see 11). Periodic supplements will be prepared.
11.	Additional Information Contents of the database were being validated at time of survey.	8. Languages List will be published in the Canada Gazette II in both official languages.
		 User Aids Available The final Canada Gazette II will contain user information concerning the database. <i>Reporting for the Domestic Substances List</i> (1988) (note: this is a guide to industry reporting for the DSL).
		10. Keywords Chemicals.
		 Additional Information This database is under development. A core (preliminary) list of chemicals used in Canadian commerce in 1984-1986 is being prepared based on submissions by about 150 Canadian companies. Following its review additions will be made by other manufacturers and importers. Notice of this larger list was published in Canada Gazette I (1990) as the Provisional Domestic Substances List. During a 90 day review period for this list, corrections and additions will be made and a list of non-domestic substances will be identified based on the U.S.T.S.C.A. list. This final list of domestic and non-domestic substances was published in Canada Gazette II in 1990. Substances introduced in Canadian commerce after January 1, 1987 will be added to the DSL only after notification and assessment requirements under the Canadian Environmental Protection. Ad ac most

			and the second se
	Environmental Contaminants in Seabirds		Ferrous Foundry Database
1.	Datafile Name(s) Not applicable	1.	Datuille Name(s) Atlantic, Praines, Quebec, Ontano British Columbia.
2a. 2h	Summary Description of Contents Data on contaminant concentrations in seabirds.	2a.	Summary Description of Contents A national database on production facilities and pollution controls for ferrous foundries. This database will eventually be updated to show sources of releases of priority substances and combined with the Inventory of Canadian
20.	and to determine threats to their health		Non-ferrous Foundries database
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Environment Canada, Fredericton, New Brunswick, E3B 4Z9.	2b.	Purpose of the Database To identify and characterize ferrous foundries in Canada Name and Address of Responsible Organization. Mining Mineral and Metallumical
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dan Busby (506) 536-3025 FAX: (506) 536-3028		Pro-esses Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3c.	Access Mechanisms Through the responsible organization or contact person.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
4a.	Variables included (summarized if extensive) Levels of DDT, PCBs and other organohalogen compounds in selected Canadian seabirds.		Mr. Bill Blakeman (819) 953-1105 FAX. (819) 994-7762
4b.	Geographic Coverage Atlantic provinces - seabirds colonies in coastal areas and	3c.	Access Mechanisms Through the responsible organization.
	offshore islands	4a.	Varables included (summarized if extensive)
4c.	Data Acquisition Method(s) Egg collection at site.		 company (location, name) industry category (automotive, agricultural, industrial and railway equipment, valves and pumps)
4d.	Geographic Unit(s) of Measurement Specimen specific (egg, tissue).		- plant capacity (tons/month)
4 0 .	Period of Record 1968 to the present		 additives (seacoal, clay, water)
4f	Update Frequency Every 4 years.		 moulding practices (pit casting, match plate, machine) melting facilities (cupoala, electric arc furnace, channel induction furnace) pollution abatement measures (afterburners, air fifterers, waste dumping)
4g.	Database Hardware/Software Configuration Digital		
4h.	Output Format(s) (tables, maps, etc.) Tabular data.	40.	Geographic Coverage National, all Canadian terrous roundries
5.	Restrictions and Conditions None	4c	Data Acquisition Method(s) Data obtained from questionnaires, reports and provincial offices.
6.	Price Information No charge	4d.	Geographic Unit(s) of Measurement Individual foundries.
7.	Corresponding Printed Sources Several articles have been published in the scientific Interature which summarize parts of the data in the database, among these	4e.	Period of Record 1986 - present
	Pearce P.A. D.P. Deskall and I.M. Revnolds (1979) "Shall Thinning and Desidues of	4f.	Up late Frequency Not yet determined.
	Organochiorines and Mercury in Seabird Eggs, Eastern Canada, 1970-76". Pesticides Monitoring Journal, 13:61-68.	4g.	Database Hardware/Software Configuration Microcomputer using DBASE III software.
	Pearce P.A. J.F. Elliott D.B. Peakall and B.J. Norstrom (1989) "Organochlorine	4h.	Ou put Format(s) (tables, maps, etc.) Text
	Contaminants in Eggs of Seabirds in the Northwest Atlantic, 1968-1984". Environmental Pollution, 56:217-235.	5.	Restrictions and Conditions None
8	Languages English	6.	Prize Information No charge
9.	Additional Information The data are useful as an indicator of spatial and temporal trends	7.	Co responding Printed Sources Hardcopies of data are available, but no reports have been published.
	in wrote or organic contaminants in the environment.	8.	Languages Text in English.
10.	Keywords Atlantic; Birds; Biota; Biotic response; Contaminants; DDT; Eggs; Monitoring; New Brunswick; Newfoundland; Nova Scotia; PCBs; Polychlorinated biphenyls; Prince Edward Island; Seabirds.	9.	User Aids Available None.
11.	Additional Information None.	10.	Keywords Ferrous foundries; Industry; Metallurgical industry; Mining; Pollution control equipment; Pollution control technology.
		11.	Additional Information Additional information is available in Basic Ferrous Foundry Operations, by W.J. Williams, Environment Canada, 1986

	Flood Risk Mapping - Atlantic Region		Flood Studies Data
	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
a.	Summary Description of Contents A series of maps which identify flood risk areas along several waterbodies throughout the Atlantic Region.	2a	Summary Description of Contents Flood risk mapping at 1.2000 and 1.5000 scale hydrotechnical analysis, watershed physiographic data, flood data.
2b.	Purpose of the Database To provide information to engineers, planners, and developers for the purpose of reducing flood damage in the region.	2b	Purpose of the Database To provide the basis for land use planning and management water resources management and flood damage reduction.
la.	Name and Address of Responsible Organization Water Planning and Management, Conservation and Protection, Atlantic Region, Environment Canada, 4th Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.	За.	Name and Address of Responsible Organization Water Planning and Managemer Branch, Inland Waters Directorate, Conservation and Protection, Ontario Region Environment Canada, P.O. Box 5050, Burlington, Ontario, L7R 4A6
ib.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Thomas Humes (902) 426-3266 FAX: (902) 426-4457	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. M.A. Shaw (416) 336-4957 FAX: (416) 336-8901
BC.	Access Mechanisms Through the responsible organization or contact person.	3c.	Access Mechanisms Through the responsible organization.
4a. Ib.	Variables Included (summarized If extensive) - areal extent of flood plains - ice presence - water levels, flow Geographic Coverage Atlantic Provinces.	4a.	 Variables Included (summarized if extensive) elevations of flows (historical and estimated frequency-based flood information) watershed parameters used in hydrologic and hydraulic computer models including land use and soil cover data. vertical and horizontal data, photogrammetric data included on topographical maps at 1:2000 and 1:5000 scale.
c	Data Acquisition Method(s) Field surveys, compilation of existing data	4b.	Geographic Coverage Selected high priority developing communities in Ontario (wit
d.	Geographic Unit(s) of Measurement Flood plains of river systems.		flooding or potential flooding problems)
le.	Period of Record 1976 - present.	4c.	Data Acquisition Method(s) Engineering studies by consultants, government agencie and universities; monitoring stations, field surveys and aerial surveys.
H.	Update Frequency Initial data collection still ongoing	4d	Geographic Unit(s) of Measurement Site specific to study area/watershed.
9	Database Herdware/Software Configuration Hard copy - includes maps of flood plains.	4e.	Period of Record 1978 - present.
h.	Output Format(s) (tables, maps, etc.) Maps of various scales.	41.	Update Frequency Semi-annually
j.	Restrictions and Conditions None.	4g.	Database Hardware/Software Configuration Mainframe/PC.
i.	Price Information Cost of map reproduction.	4h.	Output Format(s) (tables, maps, etc.) Maps.
	Corresponding Printed Sources Several hydro-technical studies are available which document rainfall munoff and flooding characteristics of the manoed areas	5.	Restrictions and Conditions None.
3.	Languages English and French.	6.	Price Information Diskettes requested if this is transfer medium no charge for reasonable requests. On-line cost of \$60/hr; \$30/hr after hours.
9.	User Aids Available Several brochures and fact sheets are available	7.	Corresponding Printed Sources Information found on reports/maps held by Ontario
0.	Keywords Flood damage; Flood risk; Floods; New Brunswick; Newfoundland; Nova Scotra, Prince Edward Island; Water; Watersheds.	8.	Ministry of Natural Resources and relevant conservation authorities.
11.	Additional Information	9.	User Aids Available Catalogue of flood risk maps for Ontario.
	a designation process by federal and provincial environment departments. Maps are used to foster public awareness of floor-prome areas and for zoning and	10.	Keywords Flood risk; Floods; Ontario; Water; Watersheds.
	 maps are used to assist in flood forecasts for the Saint John River (federal/provincial agreement). 	11.	Additional Information None.

	Freshwater Database	Fuel Additives Database
1.	Datalite Name(e) Not applicable	1. Datufile Name(s) Not applicable.
2a.	Summary Description of Contents Data on the receiving environment above and below industrial discharges in British Columbia where anadromous salmonids are present.	2a. Summary Description of Contents Uses Additives in liquid fuels (gasoline, heavy fue oils, jet fuels, diesel, furnace/stove oil) produced in or imported to Canada.
2b.	Purpose of the Database To generate data for identifying baseline conditions or conducting environmental impact assessments for industrial discharges.	2b. Purpose of the Database To monitor chemicals added to liquid fuels to provide a basis for air emission regulatory policies (e.g. motor vehicle standards).
За.	Name and Address of Responsible Organization Inland Waters, Conservation and Protection, Pacific and Yukon Region, Environment Canada, 224 West Esplanade, North Vancouver, British Columbia, V7M 3H7.	3a Name and Address of Responsible Organization Oil, Gas and Energy Division Industrial Programs Branch, Environmental Protection, Conservation and Protection Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bryan Kelso (604) 666-5193 FAX: (604) 666-6858	Sb. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Sernard Madé (819) 953-1135 FAX: (819) 997-3068
3c.	Access Mechanisms Through the responsible organization.	3c. Accass Mechanisms Through the responsible organization
4a.	Variables Included (summarized if extensive) - - physical and chemical water quality - biological factors - primary productivity - heavy metals in biota	4a. Variables included (summarized if extensive) additive name (ethylene glycol, ethylene dibromide, dyes, etc.) total volume concentration
4b.	Geographic Coverage British Columbia,	 producer of additive fuel (gasoline, heavy fuel oils, jet fuels, diesel, fumace/stove oil) refinery
4c.	Data Acquisition Method(s) Individual monitoring stations, field surveys.	 importer
4d	Geographic Unit(s) of Measurement Site specific measurements in watersheds.	4b. Geographic Coverage National, all liquid fuel producers and importers in Canada,
40	Period of Record 1982 - 1990.	 Data: Acquisition Method(s) Data submitted by refineries and importers under the Fue Information Regulations of the Canadian Environmental Protection Act - (CEPA).
41.	Update Frequency No longer updated	4d. Geographic Unit(s) of Measurement Individual refineries/importers.
49.	Outsubase nerveare/software configuration DATAPOINT 5000 with DATABOS.	4e Period of Record 1978 - present.
411.	Destrictions and Conditions Desure must see of the short stress	41 Update Frequency As required.
D.	Hestinctions and conditions. Hequests must proceed through contact person.	4g Datzbase Hardware/Software Configuration Microcomputer with DBASE III + software
6.	Price Information Not established at present.	4h. Output Format(s) (tables, maps, etc.) Tables.
7.	Corresponding Printed Sources Regional Program Reports (consult contact person).	5. Restrictions and Conditions Database mainly contains confidential information.
8	Languages English.	6. Price information Not applicable.
9.	User Aids Available None.	7. Conceponding Printed Sources A summary report was prepared in 1989
10.	Keywords British Columbia; Effluents; Environmental impact; Freshwater; Industry; Monitoring; Salmon; Sediments; Water; Water quality.	8. Languages Reports in English.
11.	Additional Information The database is being converted either to the ORACLE software	9. User Aids Available A report describing how the database is planned.
		 Keywords Energy; Fuel; Fuel additives; Gasoline; Hydrocarbons; Liquid fuels; Oil Regulatory control.
		11. Add tional information None.

	Fundy, Gulf of Maine, Georges Bank Resource and		
	Environmental Database	Glacier Mass Balance	
1	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable	
2a.	Summary Description of Contents An integrated digital database of maps, geographically referenced numerical data and text files for physical, ecological and socio- economic information for the Bay of Fundy, Gulf of Maine, Georges Bank region	2a Summary Description of Contents Maps, annual data on snow accumulation, snow and ice melt, water discharge, precipitation, and temperature for four glaciers in Alberta and British Columbia.	
2b.	Purpose of the Database The database is designed to facilitate effective resource management and long term regional planning and act as an educational tool.	2b Purpose of the Database To provide data on annual mass changes of four glaciers in western Canada for models of run-off from glaciated and mountainous basins, and to measure the effects of climate change.	
3a.	Name and Address of Responsible Organization Marine Assessment Division, Marine Environmental Research, Conservation and Protection, Atlantic Region, Environment Canada, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.	 Name and Address of Responsible Organization National Hydrology Research Institute, Conservation and Protection, Environment Canada, 11 Innovation BMd., Saskatchewan, S7N 3H5 	
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. A.R. McIver (902) 426-9300 FAX: (902) 426-9709	Bit Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. M. Brugman (306) 975-5966 FAX: (306) 975-5143	
3c.	Access Mechanisms For information on obtaining the FMG Database or the spatial analysis software, see 11.	3c. Access Mechanisms Through the responsible organization.	
4a.	 Variables included (summarized if extensive) physiography and geology; physical, chemical and biological oceanography species distributions (coastal and marine birds, marine mammals, shellfish, fish, lobster, squid) political and administrative boundaries, human resource utilization critical environmental and resource management issues (marine pollution, ocean dumping sites, coastal pollution, shellfish closures, significant and protected areas) 	4a Variables Included (summarized if extensive) - net accumulation in winter - net loss in summer - net change throughout the year - topographic survey data - velocity - stream runoff - extension exclusion - intervention exclusion - extension - exten	
4b.	Geographic Coverage Waters and surrounding coastal lands of the Bay of Fundy; Gulf of Mairie; St. Georges Bank region.	 stratigraphic analysis meteorological data 	
4c.	Data Acquisition Method(s) Data were collected from federal, provincial and state governments, academic institutions and the private sector. Throughout the process of compilation, scientific authorities reviewed and validated the manuscripts.	4b Geographic Coverage Four glaciers in Alberta and British Columbia. 4c Data Acquisition Method(s) Field survey and calculated data.	
4d.	Geographic Unit(s) of Measurement Maps scaled at 1.2 million.	4d Geographic Unit(s) of Measurement Individual glaciers.	
4e.	Period of Record 1988 - present.	4e. Period of Necord 1965 - present.	
41.	Update Frequency Updated periodically.	4f Update Frequency Annually.	
4g.	Database Hardware/Software Configuration CARIS software program for SUN, VAX and PC386-UNIX computers; GEOAXSES for IBM compatible computers.	4g Database Hardware/Software Configuration IBM compatible microcomputer with LOTUS and QUATTROPRO.	
4h.	Output Format(s) (tables, maps, etc.) Maps, tables, text	4h Output Format(s) (tables, maps, etc.) Tables.	
5.	Restrictions and Conditions None.	5. Restrictions and Conditions None.	
6.	Price Information Contact distributing agencies in 11.	6. Price Information No charge.	
7.	Corresponding Printed Sources Several papers have been published on the database.	7. Corresponding Printed Sources Two reports prepared every two and five years: General Information on Observed Glaciers, Mass Balance Hydrometeorological Data.	
	Debaste S L and D L Biskette (1000). "Dourslaning leterscated Information Sustaine for	8 Languages The database and reports are in English.	
	Manne and Coastal Environments - Lessons from the FMG Project" Proceedings of the Second National Conference on Geographic Information Systems - GIS for the	9. User Aids Available Glacier Mass Balance Measurement (1969).	
	1990's, Ottawa pp. 157-166. 2. Ricketts, P.J., A.R. McIver and M.J.A. Butler (1989). "Integrated Information Systems.	10. Keywords Alberta, British Columbia, Glaciers, Mass balance.	
	The Key to Coastal Zone Management: The Fundy/Gull of Maine/Georges Bank (FMG) Project, A Canadian Case Study". Coastal Zone '89, Proceedings of the Sixth	Additional Information An updated measurement handbook is in preparation.	
	Symposium on Coastal and Ocean Management, Vol. 5. American Society of Civil Engineers, New York, pp. 4138-4150.	Historical data are being checked for reliability and computerized. The database will be up-to-date in about two years.	
8.	Languages: The database is in English	 The data are reported to the World Meteorological Service. Plans are to include remote sensing data using active microwave and visual imagery 	
9.	User Aids Available Pamphlet describing database.	using Landsat Mapper laser altimetry. The use of a global positioning system for the purpose of mapping changes in snow line, glacier extent and topography is also being considered.	
10.	Keywords Bay of Fundy; Biota, Ecological monitoring; Marine, Marine ecosystems, Marine pollution. New Brunswick; Nova Scotia; Pollution.		
11.	Additional Information		
	 For information on the FMG Database and components of the database in CARIS or GeoAXSES format (excluding software), contact. Land Registration and Information Service, P.O. Box 310. 16 Station Street, Amherst, N.S. B4H 3Z5 (902) 667-7231. For information on the AXSES FMG INFOATLAS consisting of the FMG Database with the GeoAXSES Spatial Analysis Software,contact. AXES Inc., Geographic Information Streets: Boutlines: Point Halfax Co. N.S. B31 160 (902) 836-2440. 		
	Great Lakes Hydrologic and Hydraulic Data		Great Lakes Sediment Data (GLSEDS)
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1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) NAQUADAT
2a.	Summary Description of Contents Historical monthly data, starting in 1900, on lake levels, outflows, ice flow retardation and water supplies to the Great Lakes and diversions.	2a.	Summary Description of Contents Physical, chemical and descriptive data for bottom sed ment samples collected in all the Great Lakes between 1968 and 1978.
2b.	Purpose of the Database To support international management of Great Lakes water levels and related studies	2b.	Purpose of the Database To provide data for research, engineering, planning, ass-issment by Environment Canada and other federal departments, provincial ministries, consultants and universities.
3a.	Name and Address of Responsible Organization Great Lakes - St. Lawrence Study Office, Conservation and Protection, Ontario Region, Environment Canada, Suite 232, Lionel Chevner Building, 111 Water Street East, Cornwall, Ontario, K6H 6S2.	3a.	Name and Address of Responsible Organization Lakes Research Branch, National Water Research Institute (NWRI), Canada Centre for Inland Waters (CCIW), Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, L7R 4A6
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. P. Yee. (613) 938-5725 FAX: (613) 938-1924	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Norman A. Bukaving (A16) 336 (880) EAX (416) 336 (400)
30.	Access Mechanisms Through the responsible organization	30	Acress Mechanisms Through the responsible organization
4a.	Variables Included (summarized if extensive)	40	Verables Instreted (armmanized if extension)
	water levels lake and river flows net water supplies to Great Lakes precipitation water diversions	4a	variables included (summarized in extensive) descriptive physical properties (colour, consistency, texture, etc.) grain-size parameters, chemical parameters, major elements
dh	Generannic Coverane Great Lakes, St. Lawrence System including the Welland Canal		metals
40	Deta Acmitettan Mathadia) Manianina statione senate from other assesses	45	Cer mendie Coverere Grant Lakas
4C.	Commented limited of the comment is the size designed being a size of the size	40.	Det. Association Helbed(s)
40. 40.	Period of Record 1900 - present.	40	Field surveys based on sediment sampling. Laboratory analysis of grain size and chemistry.
4f.	Update Frequency Irregular.	4d.	Geographic Unit(s) of Measurement Individual sites described by latitude,longitude.
4g.	Database Hardware/Software Configuration Mainframe computer, PC's	40	Period of Record Varies by lake basin. Total record span is 1968 - 1978.
4h.	Output Format(s) (tables, maps, etc.) Tables of numbers only	41	Update Frequency No new data are being entered; editing being done on existing data
5	Restrictions and Conditions None.		Set.
6.	Price Information No charges for reasonably-sized requests	4g.	Datubase Hardware/Software Configuration Mainframe CDC CYBER 180/830 using the SYSTEM 2000 DBMS with DATAPAC
7	Corresponding Printed Sources Numerous reports on studies of Great Lakes water levels.	4h	Output Format(s) (tables, maps, etc.) Listings and ASCII files suitable for import by microcomputer spreadsheets, databases.
В.	Languagee English in reports, but all data are numeric.	5	Restrictions and Conditions No confidentiality restrictions. Access by NWRI personnel
9	User Aids Available None		Unity
10.	Keyworde Great Lakes; Hydrology, Ice; Lakes, Ontario, Rivers, Snow; St. Lawrence River: Water: Water currents, Water levels; Water management, Water resources	6	Price Information No charges for standard requests of reasonable size.
11.	Additional Information Similar water level/flow data for the Great Lakes are published		number of CCIW reports and scientific papers.
	annually in Canada by Environment Canada's Water Survey of Canada for Canadian stations and by the U.S. National Oceanic and Atmospheric Administration for United	8	Languages English.
	States stations.	9.	Use: Alds Available Documentation describing contents, format and access in preparation.
		10.	Keywords Great Lakes; Ontano; Sediments; Water quality.
		11.	Additional Information This database contains data for nearshore (0-20 m) and offshore sed inents. For nearshore sediments, emphasis is placed on physical characteristics while morn data is available on chemical characteristics of offshore sediments. Data recovery for nearshore sediments is fixed in format and available for 1:50,000 NTS map sheets. The nearshore data are also in a separate database called Greal Lakes Nearshore Sediment File.

		1	
	Great Lakes Water Quality Database (STAR)		Historical Manufacturing Centres Project
1.	Datafile Name(s) Not applicable.	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Water quality data on the Great Lakes including over 300 different parameter codes quantifying physical, chemical and some biological properties.	2a.	Summary Description of Contents Information on Canadian manufacturers which existed between 1850 and 1939 and whose buildings exist in part or in whole today.
26.	Purpose of the Database To support the research staff of Environment Canada and Fisheries and Oceans Canada in their research and monitoring studies of the Great Lakes.	26	Purpose of the Database Identify, for the Commission on Historic Sites and Monuments of Canada, candidate sites to commemorate the history of Canadian manufacturing.
3a.	Name and Address of Responsible Organization Computing and Programming Section, Research Support Division, National Water Research Institute, Canada Centre for Inland Waters, Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario,	3a.	Name and Address of Responsible Organization Historical Research Branch, National Historical Parks and Sites Directorate, Canadian Parks Service, Environment Canada, Ottawa, Ontario, K1A 0H3.
3h	L7R 4A6.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr Jean-Claude Parent (819) 997-0530 FAX: (819) 953-4909
0.0	Mr. Bob Duffield (416) 336-4911 FAX: (416) 336-4989	3c.	Access Mechanisms Through the organization responsible.
3c.	Access Mechanisms Through the responsible organization.	4a.	Variables Included (summarized if extensive)
4a.	Variables Included (summarized if extensive) The following groups of parameters are measured: - physical properties (e.g. temperature, dissolved oxygen)		names of the different companies having occupied a particular building manufacturing information date of construction
	 chemical properties (e.g. trace metals) biological properties 	4b.	Geographic Coverage National; 60 cities are covered.
	The database contains over 300 different parameter codes.	4c	Data Acquisition Method(s) Historical research into fire insurance records, use of other secondary sources, on-site research.
40	Geographic Coverage Great Lakes.	4d	Geographic Unit(s) of Measurement Not applicable.
4c.	Data Acquisition Method(s) Individual monitoring locations on the Great Lakes surveyed by ship.	4e.	Period of Record 1850 to 1939
4d.	Geographic Unit(s) of Measurement Site specific measurements.	41	Update Frequency Not up-to-date.
le.	Period of Record 1960 - present.	4g.	Database Hardware/Software Configuration Microcomputer TOSHIBA T-1200 with FOXBASE+, version 2.1 software.
41.	Update Frequency Ongoing	4h.	Output format(s) (tables, maps, etc.) Lisfs and tables.
4 g	Database Hardware/Software Configuration Mainframe CDC CYBER 180/830 computer, using the SYSTEM 2000 DBMS with many FORTRAN programs, GPCP, IMSL and DATABASC	5.	Restrictions and Conditions No restrictions.
ŧh.	Output Format(s) (tables, maps, etc.) Listings, statistical summanes, plots, tapes.	6.	Price Information No charge for reasonably sized requests.
5.	Restrictions and Conditiona No confidentiality or access restrictions. Searches are	7.	Corresponding Printed Sources None.
	carried out by personnel located at the Canada Centre for Inland Waters.	8.	Languages Reports in English. Entries are in either English or French.
5.	Price Information No charge for reasonably-sized requests.	9.	User Aids Available None.
7	Corresponding Printed Sources Various research reports utilize the data contained in this database. Generally, the publications contain summary data whereas the database	10.	Keywords Historic sites; Industry.
	contains the raw data.	-11	Additional Information None.
3.	Languages English.		
9.	User Aids Available Documentation exists giving the available programs and how to execute the programs.		
10.	Keywords Great Lakes; Lakes; Monitoring, Water; Water quality		
11	Additional information None		

	Historic Sites and Monuments Board of Canada/Systems Planning (HSMBC/SP)		Hydrometric Data File
1.	Datafile Name(s) Not applicable	1	Darafile Name(s) Not applicable
2a.	Summary Description of Contents Data on recommendations by the HSMBC on national historic significance.	2a.	Summary Description of Contents Data from a Canadian network of stations daily monitoring streamflows, lake levels and sediments
2b.	Purpose of the Database To provide current information on commemoration of Canadian history, including negative recommendations.	2b	Purpose of the Database To provide the basis for environmental and resource management planning for water resources in Canada.
3a.	Name and Address of Responsible Organization Operations Branch, National Historic Parks and Sites Directorate, Canadian Parks Service, Environment Canada, Ottawa, Ontario, K1A OH3	3a.	Name and Address of Responsible Organization Water Survey of Canada, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quisbec, K1A 0H3
3b.	Centact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Douglas Sullivan (819) 997-4038 FAX: (819) 953-4909	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Doug Kirk (819) 953-1564 FAX: (819) 997-8701
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization. An interactive capability is available
4.4	Variables included (summarized if extensive)		
-448.	sites of national historic significance	4a	Variables Included (summarized if extensive) Daily information for lakes or streams on
	sites reviewed but not of national significance		one or more of the following parameters
	thematic representation of sites		streamline
	internatic representation of sites		
	spanal representation or sites and themes		
		11	- water temperature
40	Geographic Coverage National.		suspended sediment concentration
	But Annulation Mathe dat Through the to second UCNDC meetings		 sediment particle size
4c.	Data Acquisition Method(s) Through the triannual HSMEC meetings.	1	- Sediment load
	An encoded a Maderate of Management Allot and Scales		- ice conditions
40.	Geographic Unit(s) of Measurement Not applicable.		- Deo malenal
40	Period of Record 1919 - present	4b.	Ge+graphic Coverage National, 3,400 active sites and about 4,200 discontinued sites.
4 E.	Update Frequency Tri-annually.	4c.	Data Acquisition Method(s) Individual monitoring stations.
49	Database Hardware/Software Configuration Mainframe computer using ORACLE database management software (Accessed through Environment Canada's Departmental Office Technology System - DOTS)	4d. 4e	Geographic Unit(s) of Measurement Site specific measurements for watersheds. Period of Record 1900 - present.
4h.	Output Format(s) (tables, maps, etc.) Standardized reports in text form.	41	Up:late Frequency Once per year minimum; most recent data available at headquarters approximately six months after collection; current and original records available from rea each different.
9.	on sensitive HSMBC recommendations. Searches should be conducted by Operations Branch Staft.	49.	Database Hardware/Software Configuration VAX 6410, ORACLE, DECNET.
6	Price Information No charges for reasonably-sized requests	4h.	Ourput Format(s) (tables, maps, etc.) Tables of numbers.
7	Corresponding Printed Sources Sites declared to be of national historic significance - tri-annual summary.	5	Restrictions and Conditions None.
8	Languages Reports are available in English or French. Most of the database contains codes that are translated into text for printed reports.	6.	Price Information No charge to view data books at Water Survey of Canada offices or at libraries, data books, hard copy sheets or magnetic tapes available at direct incremental cost of provision.
9	User Alda Available None.	7	Corresponding Printed Sources Surface water data publications, Historical stream/low/water level summaries, Hydrometric map supplement.
10.	Keyworde Historic sites	0	Ler manne. Benath are available in Earlish and French
11	Additional Information	0	Los guarges reports are available in English and menon
	1 The HSMBC database resides within the Department of the Environment	9	User Aids Available
	 At present, the database is only accessible through the contact person. Specialized reports, over and above those identified in #7, can be prepared with autoining potion. 		Supplying Hydrometric and Sediment Data to Users Surface Water Data Reference Index: Sediment Data Reference Index
	SUBJERICE	 HSMBC on 2a. Summary Description of Contents. Data from a Canadian network of stations da motifering stransflows, lake levels and sediments. and Canadian 2b. Parpose of the Database. To provide the basis for environmental and resour management planning for water resources in Canada. 2b. Parpose of the Database. To provide the basis for environmental and resour management planning for water resources in Canada. and Canadian 2b. Parpose of the Database. Through the responsible organization. Water Survey of Canada Conservation and Protection. Environment Canada. Bit Floor. Sti St Joseph Bird, H. Ou bee, K1A 0H3 2c. Access Mechanisms. Through the responsible organization. An interactive capability available. 4a. Variables included (summarized if extensive). Daily information for lakes or streame on or more of the following parameters. a streamflow water level water level sedimit particle size bed material db. Ge symphic Unit(s) of Measurement. Site specific measurements for watersheds. Berlid of Record 1900 - present 41. Up late Frequency Once per year minimum, most recent data available in the gap contrastely is in motiva after collection, current and original records available for a present data available for a present. 43. Database Herdware/Software Configuration. VAX 6410, ORACLE, DECNET 44. Our put Formatics) (tables, maps, etc.). Tables of numbers. 55. Reinfrictions and Conditions. None. 56. Prive	
			resources, Water temperature.
		11	Additivional Information Database located at the Department of Energy, Mines and Resources, 580 Booth Street, Ottawa, Ontario K1A 0E4. Monthly data summanes are also available
			3. Data on all parameters are not necessarily available for all sites
			4. Surface water data are available on compact discs
			5. Publications in 9 are available from Publications. Conservation and Protection
			Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.

	Ice Concentrations Grid Points Database	Ice Thickness Point Data
1.	Datafile Name(s) Arctic/Hudson Bay/Eastern Seaboard/Great Lakes	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Grid point digitized ice parameters from composite and historical ice charts	2a. Summary Description of Contents Weekly measurements of ice thickness and snow depth from shore stations.
2Ь.	Purpose of the Database To analyse distribution of sea ice to provide historical and statistical information	2b. Purpose of the Database To provide ice climatological services in Canadian and adjacent international waters for climatological and climate change studies.
За.	Name and Address of Responsible Organization Ice Climatology and Applications Division, Atmospheric Environment Service, Environment Canada, LaSalle Academy, 373 Sussex Drive, Block 'E'. Ottawa, Ontario, K1A 0H3.	 Name and Address of Responsible Organization Ice Climatology and Applications Division, Almospheric Environment Service, Environment Canada, LaSalle Academy, 373 Sussex Drive, Block 'E', Ottawa, Ontario, K1A 0H3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. David Mudry (613) 996-4214 FAX: (613) 563-8480	3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Phil Côté (613) 996-4353 FAX. (613) 563-8480
Зс.	Access Mechanisme Through the contact person or the responsible organization.	3c. Access Mechanisms Through the contact person or the responsible organization.
4a.	Variables Included (summarized if extensive) - ice concentration and floe size information for multi-year, second year, first year, grey-white, grey and new ice types	4a Variables Included (summarized if extensive) - thickness of ice (cm) - snow depth (cm)
ιь.	Geographic Coverage Canadian Arctic archipelago, Hudson Bay, Labrador Coast, Gulf of St Lawrence, Gulf, Great Lakes and Newfoundland waters.	4b Geographic Coverage Canadian coastal areas.
Ic.	Data Acquisition Method(s) Satellite aircraft ship reconnaissance and shore	4c. Data Acquisition Method(s) Direct measurement at each location.
	observations	4d. Geographic Unit(s) of Measurement Specific sites identified by local reference points (approximately 155 sites, 107 of them active)
ld.	Geographic Unit(s) of Measurement. Grid points mesh ½° latitude by 1° longitude, 5 km grid for Great Lakes.	 Period of Record 1947 - present. Exact record varies among stations (majority are less than 30 years)
le.	Period of Record 1959 - 1980 for the Arctic; Hudson Bay and Approaches, 1959-1983. Eastern Canadian Seaboard, 1959-1974; Great Lakes 1960-1979.	4f. Update Frequency Annually.
lf.	Update Frequency Every 5 to 10 years, or when possible.	4g. Database Hardware/Software Configuration Micro IBM 386 with custom FORTRAN program.
lg.	Database Hardware/Software Configuration Magnetic tape, diskettes (IBM).	4h. Output Format(s) (tables, maps, etc.) Print-out of raw or processed data Statistica
th.	Output Format(s) (tables, maps, etc.) Print-out of raw or processed data. Published Atlas for Canadian Arctic Waterways, Eastern Canadian Seaboard and Hudson Bay and	tables. Annual publications
	Approaches areas. (A Great Lakes Atlas was published by the U.S. National Oceanographic and Atmospheric Administration)	5. Restrictions and Conditions None
5.	Restrictions and Conditions None.	 Price Information \$119.00 for the first tape plus \$29.55 for each additional tape. \$102.75 for the first diskette plus \$7.60 for each additional diskette.
3.	Price Information \$119.00 for the first tape plus \$29.95 for each additional tape. \$102.75 for the first diskette plus &7.60 for each additional diskette.	 Corresponding Printed Sources Annual los Thickness Data Publications are available from the responsible organization.
	Corresponding Printed Sources See 4h above - Canadian Atlases.	8. Lenguages Publications are bilingual.
8.	Languages Canadian Atlases are bilingual.	9. User Aids Available Manual of Standard Procedures for Observing and Reporting los
).	User Aids Available Manual of Standard Procedures for Observing and Reporting Ice . Conditions (MANICE).	10. Keywords Arctic, Climate; Climatology; Ice; Ice thickness; Snow.
10.	Keywords Arctic, Climate; Climatology; Ice; Ice floes.	11. Additional Information The Ice Climatology and Applications Division of the Atmospheric
11.	Additional Information The Ice Climatology and Applications Division of the Atmospheric Environment Service has additional ice information (e.g. Composite Charts Database- weekly ice analysis charts; Analysis and Observation Charts Database- daily ice analysis charts) for various regions of Canada. Contact them directly for additional information.	Environment Service (AES) has additional ice information for various regions of Canada Contact them directly for additional information.

	Impacts of Pesticides on Songbirds	Importance of Wildlife to Canadians
1.	Detafile Name(a) Not applicable	1_ Decafile Name(s) Not applicable
2a.	Summary Description of Contents Data on measures of biological response of songbirds to pesticides.	 Summary Description of Contents Data from a sample of Canadians on their wild related activities and expenditures, based on a survey conducted nationally by Statist Canada.
2b.	Purpose of the Database To research the impacts of forest spraying on songbirds.	2b. Purpose of the Database To assess the social and economic importance of wildlife
3a ah	Name and Address of Responsible Organization Canadian Wildlife Service, Environment Canada, P.O. Box 400, Fredericton, New Brunswick, E3B 4Z9.	Canadians. 3a. Name and Address of Responsible Organization Socio-Economics Division, Progr. Planging and Integration Branch Canadian Wildlife Service Conservation and Protection
	Mr. Dan Busby (506) 536-3025 FAX: (506) 536-3028	Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull. Quebec, K1A 0H3.
30	Access Mechanisms Through the responsible organization or contact persons.	3b. Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s Mr. Fern Filion (819) 997-1360 FAX; (819) 953-6283
4a.	Variables Included (summarized if extensive) In songbrids	Ms Elaine DuWors (819) 953-1416 FAX (819) 953-6283 Ms Anne Haining, Special Surveys Group, Labour and Household Survey's Bran Statistics Created SSA Less Tales Building Turgen's Pacture Others Others (14.0.)
	reproductive success	(613) 951-4592 FAX: (613) 951-0562
	- growth rate of chicks	
4b.	Geographic Coverage New Brunswick and Newfoundland.	3c. Access Mechanisms. Through the responsible organization; data tapes are available free Statistics. Canada
40	Data Acquisition Method(s) Field collection of specimens.	4a Veriebles Included (summarized if extensive)
4d.	Geographic Unit(s) of Measurement Individual songbirds.	attitude (interest, support for wildlife conservation) activity two (consumptive, nonconsumptive, wildlife NGO involvement)
40	Period of Record 1977 to the present.	 wildlife groups (waterlowl, other birds, small mammals, other mammals) personal information on respondents (are sex education urbar/ural residen)
41.	Update Frequency Most summers	personal income, marital status, relation to head of family, labour force stat industry, occupation)
4 g.	Database Hardware/Software Configuration Some data available in DBASE files; hardcopy - data files and reports.	4b. Geographic Coverage National, all provinces.
4h.	Output Format(s) (tables, maps, etc.) Numerous technical publications (see 7), tables	4c. Data Acquisition Method(s) Self-administered mail-back questionnaires to individua
6	Bestictions and Conditions None	4d. Geographic Unit(s) of Measurement Individual respondents
6	Price Information No charge	4e. Period of Record 1981, 1987.
7.	Corresponding Printed Sources	4f Up tate Frequency Every five years following the Census schedule. The next upd covers activity in the year 1991.
	 Ernst, W.R., P.A. Pearce and T.L. Pollock (1989). Environmental Effects of Fenitrothion Use in Forestry: Impacts on Insect Pollinators, Songbirds and Aquatic 	4g Database Hardware/Software Configuration Mainframe computer with custom software
	Organisms Environment Canada, Conservation and Protection, Atlantic Region 2. Busby, D.G., L.M. White and P.A. Pearce. In press. "Effects of Aerial Spraying of	4h. Output Format(s) (tables, maps, etc.) Tables.
	 Busby, D.G. and L.M. White In press. "Factors Influencing Variability in Brain Acetylcholinesterase Activity in Songbirds Exposed to Aerial Fenitothion Spraying". To be published in special publication of <i>Cholinesterase</i> Symptotic Participation and Applied Acetylcholinesterase Activity in Songbirds Exposed to Aerial Fenitothion Spraying". 	 Restrictions and Conditions The information must satisfy a minimum level of statisti reliability before being released.
	meeting of the Society of Environmental Toxicology and Chemistry, Toronto, November, 1989.	 Pri > Information No charge by the Canadian Wildlife Service for advisory servic prices for tables or tapes available on request from Statistics Canada
6.	Languages English.	7 Corresponding Printed Sources 1981 and 1987 report series (see 11).
9.	User Aids Available None.	8. Languages Reports are bilingual
10	Keywords Birds; Biota; Biotic response; New Brunswick; Newfoundland; Pesticides; Songbirds	9. User Aids Available User guides available for the 1981 and 1987 surveys.
11	Additional Information None	10. Keywords Bird watching, Hunting; Public attitudes; Wildlife.
		11. Additional Information
		 All 10 provincial wildlife agencies co-sponsor the survey. Five reports were produced based on the 1981 survey covering the following top highlights, user guide, economic significance of wildlife-related activities (2 report
		demand for wildlife to the year 2001.
		 Three reports have been produced based on the 1987 survey covering the follow topics: highlights, user guide, economic significance of wildlife-related activities fourth report on trends in survey results between 1981 and 1987 is in preparation Similar reports will be prepared based on the 1991 survey results.

	index to Storm Hainfalls in Canada		Industrial Water Use Surveys (INSURVS)
1.	Datafite Name(s) Not applicable	1.	Datafile Name(a) Not applicable
2a.	Summary Description of Contents Published reports (one per storm event) each containing five pages of maps and graphs, produced by computer software, depicting the synoptic conditions, time distribution of rainfall and total depth of rain over the area of the storm.	2a.	Summary Description of Contents Data on water use from nationally distributed mining manufacturing, hydroelectrical and thermal power production companies obtained through periodic surveys of water intake, discharge, use, cost and consumption.
2b.	Purpose of the Database To provide a series of storm analyses for general reference and for use in major studies (e.g. hydro dams, reservoirs) to determine the "probable maximum precipitation" over both large and small drainage basins.	2b.	Purpose of the Database To collect data on water use by industry to direct research and applied studies.
3a	Name and Address of Responsible Organization Climate Adaptation Branch, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario M3H 5T4	36	Ecosystem Sciences and Evaluation Directorate, Environment Canada, 9th Floor, 351 St Joseph Blvd., Hull, Quebec, K1A 0H3.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	30.	Mr. Don Tate (819) 953-3478 FAX: (B19) 997-8701
	Mr. W. Hogg (416) 739-4348 FAX: (416) 739-4297	3c.	Access Mechanisms Through the responsible organization
3c.	Access Mechanisms Through the responsible organization or appropriate public libraries	4a	Variables included (summarized if extensive) - water intake by
la.	Variables Included (summarized if extensive) - date		 source (surface, ground, combined) treatment
	- storm centre (province)		 purpose (cooling, processing, steam generation)
	- duration		 point (municipal sewer, lake, river, ocean)
	 area covered depth-area duration curves 		treatment (filtration, coagulation, screening) water cost by component
њ	Generablic Coverage Canada (approximately 1.000 storms analysed)		recirculation by purpose (see above)
	Date Acculation Rethed(a) Date(all date station of from the Mational Action database		water use and consumption rates
nu. Id	Generative Unitist of Measurement Individual storm events	4b	Geographic Coverage National, covering over 7,000 industrial companies, all provinces
10.	Device of Decend 1001, second		
10	Period of Hecord 1901 - present.	4c.	Data Acquisition Method(s) Questionnaires and follow-up telephone interviews.
sf.	Update Frequency New storms are analysed periodically; the data, however, would be collected two to three years previously.	4d	Geographic Unit(s) of Measurement Individual industrial companies.
1g.	Database Hardware/Software Configuration Paper lile.	40	Period of Record 1972 - present.
¢h.	Output Format(s) (tables, maps, etc.) Reports	4f.	Update Frequency Every 5 years.
5.	Restrictions and Conditions None.	4g	Database Herdware/Software Configuration Mainframe computer, ORACLE, LOTUS.
<u>8.</u>	Price Information \$5 per completed storm analysis report; cost of professional and	4h	Output Format(s) (tables, maps, etc.) Detailed data tables available.
7	technical time for custom storm analysis.	5	Restrictions and Conditions As specified on survey forms. Searches should be conducted for users by personnel of the Branch.
	published as a separate document in this series).	6	Price Information No charge.
9.	Languages The reports are bilingual.	7	Corresponding Printed Sources Data are summarized in report form (see 11)
9.	User Aids Available An Index to Storm Rainfall in Canada.	8	Languages Reports available in French and English
10.	Keywords Climate; Floods; Precipitation; Storms, Weather	9.	User Aids Available None
11.	Additional Information None.	10.	Keywords Effluents; Industry; Liquid wastes, Wastes; Water; Water treatment; Water purification; Water use; Pollutants.
		11.	Additional Information
			 Several reports have been produced: Manufacturing Water Use Survey, SSS #17; Water Use in Canadian Industry, SSS #18, #19, #24. Reports are available from Publications, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3. The database will become a major segment of the NAQUADAT database when operational.

	Information on Regulated Emissions of the Petroleum Refining Industry in Quebec		Information System on Aquatic Birds of Quebec and their Habitats (SIDOQ)
1.	Datafile Name(s) Not applicable	1	Datafile Name(s) SIDOQ
2a.	Summery Description of Contents Information of regulated emissions of petroleum refineries in Quebec.	2a.	Summary Description of Contents Information on approximately one hundred species of iquatic birds of the St. Lawrence River and various tributaries present during migration and/or in winter). Includes descriptions of the aquatic environments in which they are found
26.	Purpose of the Database Determining compliance with the regulations. Used for the production of reports and the analysis of time trends.		(approximately 350 zones).
3a.	Name and Address of Responsible Organization Environmental Protection, Conservation and Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.	20. 3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Quebec Region, Environment Canada, 9th Floor, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Quebec, G1V 4H5.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Guy Coulombe (514) 283-2337 FAX: (514) 283-4423	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Denis Lehoux. (418) 648-2544 FAX: (418) 649-6475
3c.	Access Mechanisms Through the organization responsible.	30	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) pH suspended solids sulphates NOX phenots oils and greases refined crude oil refineacre crude tate	4a. 4b.	Variables Included (summarized if extensive) For 350 zones along the St Lawrence River, information is available by season (spring, autumn, winter) on aquatic bird populations, the density of populations, species diversity, and period of species use. Area of various types of aquatic habitats (km ²) along the St. Lawrence River. Geographic Coverage St. Lawrence River, Estuary and Gulf; Ottawa River, Richelieu River, Saguenay River, Lake Saint-Jean
4b	Geographic Coverage Province of Quebec	4c.	Data Acquisition Method(s) Aerial and terrestrial analysis.
4c.	Data Acquisition Method(s) Data are provided by the companies.	4d.	Geographic Unit(s) of Measure For bird populations - 350 zones, each about 15 kms in langth. For habitat - 4 000 units of 1 km².
4d.	Geographic Unit(s) of Measurement Data are reported by industrial site.	40.	Period of Record 1974 to 1985.
4 0 .	Period of Record Since 1980.	4f.	Update Frequency No updating.
41.	Update Frequency Each year.	49	Database Hardware/Software Configuration On hard disk, IBM-PC, KMAN.
4g.	Database Hardware/Software Configuration Microcomputer; DBASE.	4h.	Output format(s) (tables, maps, etc.) Tables and figures only.
4h	Output format(s) (tables, maps, etc.) Tables, graphs	5.	Reatrictions and Conditions No restrictions.
5.	Restrictions and Conditions Data are accessible through the provisions of the Access to Information Law.	6.	Price Information No charge
6	Price information None.	7.	Corresponding Printed Sources Two reports are published. La sauvagine dans le système du Saint-Laurent (SCF), Milieux humides le long du fieuve Saint-Laurent - Working Reportsumber 45 Lande Directorate.
7	Corresponding Printed Sources An annual report (internal publication with limited distribution).	В.	Languages The information and the report on wild birds are available in French. The publication on wetlands is available in each of the official languages.
В	Languages French	9	Uew Aida Available None
9	User Alds Available None.	10	Kerwords Riota Biots Habitats Migratory birds Quebec: St Lawrence River: Waterfow!
10	Keywords Air quality; Emissions; Industry; Oil; Oil and gas industry; Quebec; Refineries		Wildlife.
11	Additional Information None	11	Ad ditional Information None
		-	

1	Inventories of Colonial Waterbirds Nesting on the Canadian Great Lakes	Inventory of Canadian Non-f	errous Foundries
1.	Datafile Name(s) Not applicable	Datafile Name(s) Not applicable	
2a.	Summary Description of Contents Results of inventories (colony survey and nest counts) of colonial waterbirds nesting on the Canadian portions of the Great Lakes.	Summary Description of Contents A nation non-ferrous foundries. The database will ever releases of priority substances and combined wi	al database on production facilities for itually be updated to show sources of the the Serious Foundar Database
2b.	Purpose of the Database To monitor trends in Great Lakes colonial waterbird populations as a basis for conservation/management decisions	Purpose of the Database To identify and chara	cterize non-ferrous foundries in Canada.
34	Name and Address of Responsible Organization Conscion Wildlife Service	Name and Address of Despansible Organize	time Mining Minard and Matelluminal
urus.	Conservation and Protection, Ontario Region, Environment Canada, 49 Camelot Avenue, Nepean, Ontario, K1A 0H3	Processes Division, Industrial Programs Branch, and Protection, Environment Canada, 13th Floor K1A 0H3	Environmental Protection, Conservation , 351 St. Joseph Blvd., Hull, Quebec,
36.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Dr. Hans Blokpoel (613) 952-2410 FAX: (613) 952-9027	Contact Person(s), Address (if different from Mr. Bill Blakeman (819) 953-1105 F	3e), Telephone and FAX Number(s) AX: (819) 994-7762
3c.	Access Mechanisms Through the responsible organization.		
4.0	Variables (notuded formanized 21 outputs)	Access Mechanisms Through the responsible	organization.
42.	location of colony sites	Variables Included (examplized if extensive)	
	- species nesting	 company (name, address) 	
	- number of nests per species	- metals used	
	- colony site information	 products (casting, valves, pumps, shipbuildir plant are saits (casting valves) 	ng components, aircraft components)
4b	Geographic Coverage Great Lakes	 plant capacity (tons/month) size range of castings (pounds) 	
1401	consequence of the second control of the sec	 non-ferrous alloy grades 	
4c.	Data Acquisition Method(s) On-site nest counts made during the breeding season.	- moulding facilities	
	On second to the life of the second state of the second state of the	- melting facilities	
40.	Geographic Unit(s) of Measurement Colony or nesting site.	 pattern and machine shop facilities accommin facesast 	
4e.	Period of Record 1989 - present	- information source	
41.	Update Frequency To be updated approximately every 5-10 years.	Geographic Coverage National, all 103 foundri	63
4.0	Patabasa Usabusa Calinga Canfingation (DM	Party a series being the start of the series of the	and the second
49.	User and the second sec	Catal Acquisition Method(s) Information from a	valable reports.
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, diskettes and eventually, an atlas	Geographic Unit(s) of Measurement Plant spe	erric Information.
		Period of Record 1989 - present.	
5.	Restrictions and Conditions None.		
6.	Price Information Not yet determined.	Updane Frequency Not yet determined.	
-		Database Hardware/Software Configuration	licrocomputer with DBASE III.
7.	Corresponding Printed Sources Reports in progress	Output Formatica) (tables mana ata). Tout	
8.	Languages English.	Output Formada) (tables, maps, etc.) 16xt.	
9.	User Aids Available None.	Restrictions and Conditions None.	
10	Research Distributed and Distributed and the One is whether a second	Price Information No charge.	
10.	Additional Information Data collection is surroully in account with the	Corresponding Printed Sources One report ha	as been produced (see 11).
	Accuration internation Data collection is currently in progress.	Languages English text.	
		User Aids Available None.	
		Keywords Industry; Metallurgical industry, Meta	ls; Mining, Pollution control
		Additional Information	
		 The inventory summarizes data from a one-ti- on waste production or pollution controls. The survey provides baseline data against which compared. Additional information is found in: Cameron Non-ferrous Foundries. Environment Canad 	ime national survey that gives no details s industry is not regulated federally. This data from future surveys, if any, can be . D (1987). <i>Inventory of the Canadian</i> a. Ottawa.
		Non-ferrous Foundries. Environment Canad 3. The publication above is available from the r	a, Ottawa. esponsible organization.

	Inventory of Sensitive Areas in the St. Lawrence River		Lake Superior Shore Property Inventory and Damage Survey
1.	Datafile Name(s) Not applicable.	1.	De Lafile Name(s) SURVEY DBF: QUESTION.DBF
2a	Summary Description of Contents Map of environmentally sensitive sites in the St. Lawrence River (spills of hydrocarbons or other hazardous materials). Information to minimize impacts on wildlife, birds, and water use.	2a.	Summary Description of Contents Data on flood/erosion damage potential from a 1987 erigineering survey of Canadian Lake Superior shoreline properties and from a questionnaire survey of property owners.
26	Purpose of the Database Evaluation of the impacts of oil spill incidents	2b.	Purpose of the Database. To identify shore damage potential and provide data for Lake Superior at a level comparable to the lower Great Lakes.
3a.	Name and Address of Responsible Organization Environmental Protection, Conservation and Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.	За.	Name and Address of Responsible Organization Canadian Centre for Inland Waters, W.tter Planning and Management Branch, Inland Waters Directorale, Conservation and Protection, Ontario Region, Environment Canada, 867 Lakeshore Road, Burlington, Octario 1.78 (A6
30	Mr. Claude Rivest (514) 283-2345 FAX: (514) 283-4423	35	Contant, Crimeno.
3c.	Access Mechanisms Through the responsible organization.	00.	Mr. William Bien (416) 336-4948 FAX (416) 336-4906
4a	Variables included (summarized if extensive)	3c.	Access Mechanisms Through the responsible organization.
46	types of sensitive areas	4a.	Variables Included (summarized if extensive) property photo inventory distance disturbures from waterline
40	Date Acceletion Method(a) Consultations with evolute		structure type and quality elevation of lower openings
Art	Geographic Units) of Measure Point data and data for zones.		residential/seasonal status optential for damage and other information
40	Period of Record 1987 - to present		protection expenditures
41.	Update Frequency Approximately once every 5 years	46.	Geographic Coverage Canadian Lake Superior shoreline, Thunder Bay, Sault Ste. Marie (approx. 2600 properties).
4g.	Database Herdware/Software Configuration Maps	4c.	Data Acquisition Method(s) Engineering survey, questionnaire survey.
4h.	Output format(s) (tables, maps, etc.) Maps.	4d.	Geographic Unit(s) of Measurement Site specific measurements.
5	Restrictions and Conditions None.	40.	Period of Record Engineering survey May - September 1987. Survey Questionnaire - re: protection expenditures in previous 5 years.
6	Price information None.	4f	Up date Frequency There are no plans at present to updale this database.
7.	Corresponding Printed Sources Maps and Reports.	49.	Database Hardware/Software Configuration IBM/PC compatible, DBASE III.
8.	Languages French	4h.	Output Format(s) (tables, maps, etc.) May be customized from original data
9	User Aids Available None.	5	Restrictions and Conditions Some confidentiality restrictions may apply.
10	Keywords Accidents, Environmentally sensitive areas, Oil, Pollution control technology; Quebec, Spills, St. Lawrence River	6	Pr ce information No charge
11	Additional information The system is being automated The maps are, however, available for consultation.	7.	Corresponding Printed Sources Lake Superior Shore Property Damage Assessment and Social Impact Assessment, study report by Marshall, Macklin, Monaghan. Prepared for Environment Canada and Ontario Ministry of Natural Resources 1988.
		8.	Languages English
		9	User Aids Avaitable Not applicable.
		10.	Keywords Erosion, Flood damage; Floods; Great Lakes, Ontario.
		1.1	Additional Information Name

	Lead Additives in Gasoline (LAG)		Leaded Gasoline Data Management System
٩.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summery Description of Contents Data on quantities and concentrations of lead additives in gasoline imported to and produced in Canada.	2a.	Summary Description of Contents Results of a sample of lead from service stations in Quebec.
2b.	Purpose of the Database To monitor compliance with the leaded gasoline regulations.	26.	Purpose of the Database In support of the regulations governing the level of lead in gasoline.
3a.	Name and Address of Responsible Organization Commercial Chemicals Branch, Conservation and Protection, Environment Canada, 14th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	За.	Name and Address of Responsible Organization Environmental Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Harris (819) 953-1673 FAX (819) 953-7155	Зb.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Ms. Anne Marie Charter (514) 283-2458 FAX: (514) 283-4423
4c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the organization responsible.
4a.	Variables Included (summarized if extensive)	4a.	Variables Included (summarized if extensive) Concentrations of lead in gasoline.
	quantities of lead added to gasoline concentration of lead in gasoline	4b.	Geographic Coverage Province of Quebec.
4b	Geographic Coverage Canada	4c.	Data Acquisition Method(s) Sampling network (variable over time).
40	Date Acceleration Rethered(a) Our dark wards for a fair in and include	4d	Geographic Unit(s) of Measurement Each sampling site is a service station. service.
9G.	Maka Acquisitered in meterological Guarterity reports from refineries and importers	40.	Period of Record 1983 to date
40.	Geographic Unit(s) of Measurement. Not applicable.	4f.	Update Frequency Yearly in the past, not currently up-to-date.
40.	Period of Record 1974 - present.	40	Database Hardware/Software Configuration Microcomputer FOXBASE software
4 f.	Update Frequency Annually, quarterly.	46	
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with DBASE	4n.	Output format(s) (tables, maps, etc.) (ables
	III + software	5.	Restrictions and Conditions No restrictions - data are not confidential.
4h.	Output Format(s) (tables, maps, etc.) Tables of numbers	6.	Price Information No charge.
5.	Restrictions and Conditions Data submitted by refineries and importers is protected business information.	7.	Corresponding Printed Sources An annual report.
6.	Price Information No charge	8.	Languages French.
7	Corresponding Drinted Secretary Name	9.	User Aids Available None.
8	Languages English and French.	10.	Keywords: Air pollution; Emissions; Fuel; Gasoline; Hydrocarbons; Lead; Motor vehicles; Pollution; Quebec.
9.	User Aids Avaitable None.	11	Additional Information KNOWLEDGEMAN software was used until 1988. In 1988 A new
10.	Keywords Contaminants; Hydrocarbons; Fuel; Fuel additives; Gasoline; Lead; Oil; Regulatory control.		system was created in FOXBASE in order to include a wider variety of unleaded gasolines. Only a portion of the base is currently accessible. FOXBASE can not be used to access data for the years between 1983 and 1988. The two systems are distinct.

11. Additional Information None.

	LRTAP Biomonitoring Sites		Maritime Nest Records Scheme
1	Detailie Name(s) Not applicable	1.	Datafile Name(s) Not applicable
Za	Summary Description of Contents Information on waterlowl productivity, water chemistry, fish status and morphological data for 464 individual waterbases.	2a	Summary Description of Contents Records of nesting birds or colonies of birds observed during the nesting season in the Maritimes
Zb.	Purpose of the Database To monitor the effects of varying deposition rates of airborne pollutants on waterfowl populations and aquatic ecosystems	2b.	Purpose of the Database To provide a databank for bird nesting research in the Maritime Provinces for researchers studying the breeding biology of birds
la.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Ontario Region, Environment Canada, 49 Camelot Drive, Nepean, Ontario, K1A 0H3	3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 1590, Sackville, New Brunswick, EOA 3C0
3 b .	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Don McNicol (613) 952-2409 FAX (613) 952-9027	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. A. J. Erskine (506) 536-3025 FAX: (506) 536-3028
BC.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisma Through the responsible organization.
ŧa.	Variables Included (summarized if extensive) - biotic: - waterfowl and loon density - broods and young produced - fish status	4a.	Variables included (summarized if extensive) - bird species - date, location - clutch size, colony size - breeding success - stheme date versibles collected
	 aquatic: pH, alkalinity, conductivity major ions 	4b.	Gettgraphic Coverage New Brunswick, Nova Scotla, Prince Edward Island.
	dissolved organic carbon total phosphorous water colour lake size length location and depth	4c.	Data Acquisition Method(s) Nest record cards are received from volunteer co-operators at the end of the nesting season.
łb.	Geographic Coverage Ontario (Muskoka - 232 lakes; Algoma - 234 lakes)	4d.	Gec.graphic Unit(s) of Measurement Individual nests/colonies referenced by locality name, county, province
lc.	Data Acquisition Method(s) Waterlowl production field surveys, fish sampling surveys, water sampling.	40.	Per od of Record 1960 - present
٤d.	Geographic Unit(s) of Measurement Lakes and open water bodies relerenced by latitude. Ionatude	4f. 4g.	Upcate Frequency Annually. Database Hardware/Software Configuration Card files.
lo.	Period of Record 1988 - present	4h.	Output Format(s) (tables, maps, etc.) Tables, text
٩ <u>۴</u>	Update Frequency Annually.	5.	Restrictions and Conditions Original data (in quantity) usable only in Sackville; small
lg.	Database Hardware/Software Configuration SAS PC-based, SPANS.		quantifies may be loaned or photocopied.
4h	Output Format(s) (tables, maps, etc.) Not yet determined.	0.	Concernanting Printed Sources. An annual report summarizing the number of co-
5	Restrictions and Conditions None expected.	· ·	operators and the number of record cards received for each species
6	Price Information Not yet determined.	8	Lan guages The record cards are in the language of the co-operator; the report is available in either English or French
7.	Corresponding Printed Sources Not yet determined	9	User Aids Available An instruction card is available for co-operators.
8.	Longuages English.	10.	Keywords Biota; Birds; Nesting; New Brunswick; Nova Scotia; Prince Edward Island;
9.	User Aids Available Will be developed.		Wildine
10.	Keywords Acid precipitation, Biotic response, GIS; Habitats, Monitoring; Ontario; Waterlowl; Wildlife.	11.	Additional Information Contacts for nest record schemes, managed by CWS or provincial governments, for other regions and provinces of Canada can be obtained from the responsible organization
11.	 Additional Information Food chain monitoring will be conducted on 20 lakes per area. This database is presently being developed, based on aquatic invertebrates and fish sampling methods developed in previous studies. 		

	Naritima Bravinces Strategic Land Lies Database		Merentalize a 187 Allow 1
	Maritime Provinces Strategic Land Use Database		Maritime Wetlands Inventory
l. 2a.	Datafile Name(s) Not applicable Summary Description of Contents: A twenty year update of land use in the Maritime Provinces based on an expanded Canada Land Inventory (circa 1967-1987) classification derived from Landsat Thematic Mapper Imagery interpretation.	1. 2a.	Detafile Name(s) Cartographic- Wetlands Atlas for New Brunswick, Nova Scotia an Prince Edward Island. Tabular- Summaries available by watershed, and county from computer database. Summary Description of Contents Atlas maps at the scale of 1.50,000 covering
26	Purpose of the Database To provide a land use base for resource management documentation of potential environmental concerns and to use monitoring data to link cause to effect, as required in the environmental assessment process. The SPANS universes created form a base on which to relate a wide universes created base bases and the second secon	26	classification and evaluation for all wetlands in New Brunswick, Nova Scotia and Princ Edward Island. Computenzed database permits data retrieval and summary listings. Purpose of the Database To identify, classify and evaluate freshwater and marin
	non-SPANS formatted) GIS datasets.	3a	Name and Address of Responsible Organization Wildlife Conservation and
За.	Name and Address of Responsible Organization Water Planning and Management, Conservation and Protection, Atlantic Region, Environment Canada, 4th Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2H 2N6		Environmental Quality, Canadian Wildlife Service, Conservation and Protection, Atlanti Region, Environment Canada, P.O. Box 1590, Sackville, New Brunswick, E0A 3C0.
b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dave Wilson (902) 426-4197 FAX: (902) 426-4457	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Al Smith (506) 536-3025 FAX: (506) 536-3028 Mr. Al Hanson (506) 536-3025 FAX: (506) 536-3028
Bc.	Access Mechanisms Through the responsible organization.	Зс	Access Mechanisms Through the Canadian Wildlife- Atlantic Region Office or throug provincial wildlife divisions.
la	Variables Included (summarized if extensive) 21 classes of land activity and cover (e.g. urbanization, institutions, row crop agriculture, rough pasture, mines, waste disposal sites, clearcuts, productive forest, recreation and conservation areas).	4a.	Variables Included (summarized if extensive) I location, watershed identification area
lb.	Geographic Coverage New Brunswick, Nova Scotia, Prince Edward Island.		 ph. conductivity type and class of vegetation, dominant vegetation, interspersion, evaluation score substrate type, islands. % high and % low marsh (for manne wetlands)
lc.	Date Acquisition Method(s) Landsat Thematic Mapper Imagery with PROCOM device to project images onto 1:50,000 NTS map sheets.	4b	Geographic Coverage All wetlands over 0.25 ha in New Brunswick, Nova Scotia an Prince Edward Island
d	Geographic Unit(s) of Measurement Latitude and longitude	4c	Data Acquisition Method(s) Air photo interpretation with field checks.
0.	Period of Record 1968, 1987.	4d.	Geographic Unit(s) of Measurement Individual wetlands referenced by UTN
ł.	Update Frequency Undetermined.	4.	topographic map number and watershed
9. b	Output Formatie) (tables mane stel) Mane tables grants	40.	Period of Hecord 1978 - 1988.
	Restrictions and Conditions None	40	Database Hardware/Software Configuration IBM PC with cution software reported.
	Price Information No charge	-9	of maps at the scale of 1:50,000.
	Corresponding Printed Sources None.	4h.	Output Format(s) (tables, maps, etc.) Maps; summary tables by watershed, county province.
	Languages The database is in English.	5.	Restrictions and Conditions None.
k.	User Aids Available CLDS/CGIS catalogue of reports.	6.	Price Information No charge for general information; duplication costs for the maps.
0.	Keywords Atlantic Canada, GIS; Land, Land use; New Brunswick; Nova Scotia; Prince Edward Island, Satellite imagery.	7.	Corresponding Printed Sources Final reports, summary documents and workbooks have been prepared for each province
1.	Additional Information 1. Land use change overlays are now being developed to provide data on environmental	8	Languages The database is in English.
	response to human activity for the five-year regional state of the environment report 2. Fact sheets covering various aspects of land use change are in preparation and a regional overview of change is planned	9	User Aids Available Coding formats and legends are attached to maps and data summaries.
	3. The three Maritime Provinces are complete in SPANS format.	10	Keywords New Brunswick, Nova Scotia; Plants; Prince Edward Island; Wetlands.
		11.	Additional information None.

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	Maritimes Breeding Bird Atlas		May Breeding Population Survey - Waterfowl
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Maps of the distribution of birds breeding in the Maritime Provinces from 1986 to 1990. The atlas in preparation will provide supporting text.	2a.	Summary Description of Contents Estimates of breeding waterfowl by species and strata in the Prairie Provinces, Northwest Territories, Yukon Territory, Ontario and north- central United States.
26.	Purpose of the Database To produce accurate and up-to-date maps of the distribution of breeding birds in the Maritime Provinces for establishing baseline conditions against which future observations can be compared and trends assessed.	2b.	Purpose of the Database To provide estimates of breeding waterlow! populations for trend analysis and to set bag and possession limits.
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 1590, Sackville, New Brunswick, EOA 3C0.	За.	Nense and Address of Responsible Organization Population Management Section, Canadian Wildlife Service, Environment Canada, Room 513, 269 Main Street, Winnipeg, Mar itoba, R3C 1B2.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr A J, Erskine (506) 536-3025 FAX. (506) 536-3028	Зb	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dale Caswell (204) 983-5260 FAX: (204) 983-4506
30	Access Mechanisms. Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
4a	Variables included (summarized if extensive) - bird species	4a.	Variables Included (summarized if extensive) ponds (number, type, water level) # of waterfowl by species (current year, 10 year mean, per cent change)
	nesting (possible, probable, con(irmed) location date	6	 # of coots ■ of Canada geese
4b.	Geographic Coverage Maritime provinces.	4b.	Geographic Coverage Prairie Provinces, Yukon Territory, Northwest Territories, Ontano, North and South Dakota, Montana, portions of Wisconsin
4c.	Data Acquisition Method(s) Field data were collected by a region-wide network of volunteers, including CWS staff, over a five year period.	4c.	Data Acquisition Method(s) Aerial surveys for bird counts for entire area by U.S. Fish and Wildlife Service, ground counts by Canadian Wildlife Service along transects in some areas for air survey correction factor and habitat data collection.
4d.	Geographic Unit(s) of Measurement Breeding records are mapped on a 10 X 10 km grid covering the region	4d.	Geographic Unit(s) of Measurement Individual ponds referenced by latitude, longitude.
40	Period of Record 1986 - 1990.	40.	Period of Record 1955 - present
4 f.	Update Frequency No immediate update is planned, possibly repeated after 20-25 years	4f.	Update Frequency Annually.
49	Database Hardware/Software Configuration IBM compatible computer with special software	4g.	Database Hardware/Software Configuration Paper files, reports.
4h	Output Format(s) (tables, maps, etc.) Maps	4h.	Out; ut Format(s) (tables, maps, etc.) Tables in reports
5.	Restrictions and Conditions None, following publication	5.	Restrictions and Conditions None.
6	Price Information No charge for reasonably sized requests.	6.	Price information No charge for reports.
7.	Corresponding Printed Sources An atlas containing distribution maps and	7.	Com-seponding Printed Sources One report per region is prepared annually entitled, Wate dowl Breeding Status.
8		8.	Lançuages The report is in English.
9.	User Aids Available Atlasser Handbook Breeding Season Chart Code Combinations.	9.	User Aids Available There is a standard operations and procedures manual for waterfowl population surveys.
10.	Keywords Biota; Birds; New Brunswick; Nova Scotia; Prince Edward Island, Wildlife.	10.	Keywords Biota; Birds; Geese; Migratory birds; Waterfowl; Wildlife.
11.	Additional Information None.	11.	Additional information The breeding bird survey data are sent to the U.S. Fish and Wildlife Service in Washington where they are analysed. An annual report is then returned to the Canadian Wildlife Service

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	Meteorological Data System (MET)		Migratory Birds
١.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
la.	Summary Description of Contents Data on wind speed, wind direction, air temperature, water temperature and relative humidity at stations in Canada.	2a.	Summary Description of Contents Results of migratory bird surveys and observation for the Praine Provinces provided by a variety of sources.
Zb.	Purpose of the Database To provide data for scientists, government agencies and consulting engineers for climatological studies, lake circulation models, and storm surge models.	2b.	Purpose of the Database To provide baseline inventory data for migratory bird specie for determining habitat priorities and establishing habitat protection programs.
a.	Neme and Address of Responsible Organization National Water Research Institute (NWRI), Canada Centre for Inland Waters (CCIW), Conservation and Protection, Environment Canada, 867 Lakeshore Road, P.O. Box 5050, Burlington, Ontario, L.7R 4A6.	За	Name and Address of Responsible Organization Canadian Wildlife Service Conservation and Protection, Western and Northern Region, Environment Canada, Roon 210, 4999-98 Avenue, Edmonton, Alberta, T6B 2X3.
b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. J. Bull (416) 336-4634 FAX: (416) 336-4989	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. T. Coleman (403) 468-8908
lc.	Access Mechanisms Through the responsible organization.	30.	Access Mechanisms Through the responsible organization.
la	Variables Included (summarized if extensive) - wind speed - wind direction - air temperature - water temperature - relative humidity - transmissometer	4a 4b	Variables Included (summarized if extensive) bird species year, season location habitat ecoregion/subregion Geegraphic Coverage Prairie Provinces.
b.	Geographic Coverage Ontario, with periodic special projects elsewhere in Canada, including Northwest Territories.	4c 4d	Data Acquisition Method(s) Ground and aerial sightings. Geographic Unit(s) of Measurement Ecoregion/subregion.
с.	Data Acquisition Method(s) Individual monitoring stations.	40	Period of Record 1965 - 1986
d.	Geographic Unit(s) of Measurement Site specific measurements referenced by latitude	41.	Update Frequency Unknown.
	and longitude.	49	Database Hardware/Software Configuration IBM compatible computer with custon
θ.	Period of Record 1969 - present.		software.
f.	Update Frequency Quarterly.	4h	Output Format(s) (tables, maps, etc.) Lists.
9	Database Hardware/Software Configuration CDC mainframe CYBER 180/830, using custom FORTRAN software Data are stored on magnetic tape.	5.	Restrictions and Conditions Access to rare and endangered species is restricted; only selected distributions are available for specific requests
h.	Output Format(s) (tables, maps, etc.) Listings, statistical summanes, plots (time series), tapes.	6.	Price Information Contact responsible organization.
	Restrictions and Conditions No confidentiality or access restrictions. Searches are carned out by personnel located at CCIW.	7.	Correeponding Printed Sources Priority Migratory Bird Habitat of Canada's Prairie Provinces.
	Price Information No charges for reasonably-sized requests.	8	Languages The database is in English.
	Corresponding Printed Sources Various research reports use the data contained in the database. Generally, the publications contain summary data whereas the database contains the raw data.	9. 10.	User Aids Available None. Keywords Alberta; Birds; Habitats; Manitoba; Migratory birds; Prairies; Saskatchewan Wildlife.
	Languages English	11,	Additional Information The publication in 7 is available from Communications at the
	User Aids Available Documentation is available giving a summary of each program and how to execute it, as well as tape format.		address in Ja.
0.	Keywords Climate; Humidity; Temperature; Water temperature; Weather, Winds.		
1.	Additional Information None.		

	Migratory Game Bird Population Status		Mine Compliance Data
1.	Datafile Name(s) Not applicable	1	Datefile Name(s) Minestat
2a.	Summary Description of Contents Aerial surveys and ground counts of breeding waterfowl populations and habitat conditions, and wintering area inventories of waterfowl across North America. Surveys are conducted by Canadian Wildlife Service, U.S. Fish and Wildlife Service and province/state/herritorial wildlife biologists.	2a. 2h	Summary Description of Contents A national database on liquid effluent for base metal, iron ore, uranium, gold and silver mines.
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20. 3a.	Purpose of the Database To establish trends in population size and monitor long-term patterns in waterfowl abundance. Name and Address of Responsible Organization Migratory Bird Conservation Division,	3a.	Name and Address of Hesponsible Organization. Mining, Mineral and Metallurgical Processes Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
	Migratory Birds and Wildlife Conservation Branch, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bill Wong (819) 997-2294 FAX: (819) 994-7762
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Kathryn Dickson (819) 953-1415 FAX (819) 953-6283	Зс.	Access Mechanisms Through the responsible agency.
3с.	Access Mechanisms Through the responsible organization	4a	Variables included (summarized if extensive) - mine (name, company, location, mining method, capacity, ore tonnage and grade) - minerals in ore (mainly gold, silver, zinc, lead, copper, nickel, iron)
4a.	Variables Included (summarized if extensive) population indices for each species of waterfowl in various seasons		 cyanide removal method (natural degradation, no cyanide, sulphur dioxide/air, hydrogen peroxide)
	 pond counts in western Canada and northwestern United States waterlowl species (ducks, geese, swans) 		type of waste treatment (tailings pond, settling pond, drainage) effluent characteristics endagment concentrations (lead evanide zinc concert nickel attend)
4b.	Geographic Coverage North American, all provinces, territories and states		Containing Concentrations (tead, cyanolo, zinc, copper, notes, arsenic) pH total suspended matter
4c	Data Acquisition Method(s) Cooperative aerial and ground surveys	4b	Geveraphic Coverage National including all provinces and territones
4d.	Geographic Unit(s) of Measurement Varies among surveys		
40.	Period of Record 1955 - present.	40.	Uses Acquisition Method(s) Mines under compliance report monthly to the provinces or territones.
41.	Update Frequency Annually, following ontry of all historical data sets.	4d	Gecgraphic Unit(s) of Measurement Individual mines.
4g.	Database Hardware/Software Configuration DOS-based microcomputer with DBASE III +, or QUATTRO software, ASCII files can also be produced.	40.	Period of Record 1986 - 1987.
4h.	Output Format(s) (tables, maps, etc.) Computer files on floppy disks. Selected parts of	41.	Upcate Frequency Irregularly
	files, summary tables and figures can be prepared in hardcopy if necessary.	4g	Datubase Hardware/Software Configuration COMPAQ DESKPRO 286 with DBASE III + scftware for base metal mines and SYMPHONY software for gold mines.
5	Restrictions and Conditions Users must have a knowledge of usefulness and limitations of avian census techniques, data on rare, threatened or endangered species are restricted.	4h.	Output Format(s) (tables, maps, etc.) Tables.
6	Price Information No charge. Requester must submit floppy disks with request.	5.	Restrictions and Conditions Some data may be restricted; contact responsible organization
7	Corresponding Printed Sources An annual report - Status of Waterfowl - is produced by the U.S. Fish and Wildlife Service. A semi-annual report - Status of Waterfowl in Conduction and Conduction Conductions and Conduction Conductions and C	6.	Price Information No charge for reasonably-sized requests.
8	Languages Both reports are available in French and English, database tables contain	7.	Corresponding Printed Sources Penodic reports produced; see 11 for most recent report.
~	Unit Alde Avelleble Manual de la de la contra	8.	Langueges Reports are bilingual.
9	Deer Alos Avenuade Manual of standard operating procedures for the watertowi preeding population surveys	9.	User Alds Available None.
10	Keywords Biota, Birds; Migratory birds, United States; Waterfowl, Wildlife.	10.	Keywords: Effluents; Industry; Liquid wastes; Mining; Pollutants; Wastes.
11	Additional Information Publications in 7 and 9 are available from the responsible organization.	11.	 Additional Information Regulation limits for effluent provided in document below (2). Status report on water pollution control in the Canadian metal mining industry (1986). Gold and silver mines are not regulated. Publications available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.

	Municipal and industrial Strategy for Abatement - Iron and Steel industry Database	Municipal Water Use Survey
1	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable
2a.	Summery Description of Contents Information on pollutants in liquid effluent from the iron and steel industry in Ontario.	2a. Summary Description of Contents Data on water intake, water use and wastewater treatment from periodic surveys of nationally distributed municipalities over 1,000 population. Data on pumpage and use by category (residential, commercial, industrial)
26.	Purpose of the Database To collect information on pollutants in liquid effluent for the iron and steel industry in order to determine priority pollutants and establish limitation regulations.	institution). 2b. Purpose of the Database. To collect basic water use data for municipalities over 1,000
За.	Name and Address of Responsible Organization Mining, Mineral and Metallurgical Processes Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	 population for research and applied studies. 3a. Name and Address of Responsible Organization Economics and Conservation Branch Ecosystem Sciences and Evaluation Directorate, Environment Canada, 9th Floor, 351 St Joseph Blvd., Hull, Quebec, K1A 0H3.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr, Kin Mah (819) 997-2271 FAX: (819) 994-7762	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dave Lacelle (819) 953-1519 FAX. (819) 997-8701
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisma Through the responsible organization.
4 a	Variables Included (aummarized if extensive) Liquid effluent parameters (not all are available for each mill) include: - solids (dissolved, suspended) - nitrogen compounds (nitrates, nitrites) - cyanide - phosohorus	4a. Variables Included (summarized if extensive) - annual pumpage - use by category (residential, commercial, institutional, industrial, other) - population - waste treatment (primary, secondary, tertiary) - water source (surface, ground, combined)
	 trace metals heavy metals 	4b Geographic Coverage National, covering 1,300 municipalities, all provinces and territories
4b.	Geographic Coverage Ontario.	4c. Data Acquisition Method(s) Questionnaires and telephone interviews.
4c.	Data Acquisition Method(s) Pre-regulation field sampling surveys conducted in 1987-88 by the Ontario MISA Program, and surveys conducted in 1979-80.	4d. Geographic Unit(s) of Measurement Individual municipalities over 1,000 population.
4d.	Geographic Unit(s) of Measurement Mills	4e Period of Record 1983, 1986
4 o .	Period of Record 1987 - present.	41. Update Frequency Every 5 years as of 1986.
4f	Update Frequency Irregular	4g. Database Hardware/Software Configuration Microcomputer; data stored on floppy disk in LOTUS format, mainframe computer used for tabulating results.
4g.	Database Hardware/Software Configuration COMPAQ 285 with LOTUS 1-2-3.	4h. Output Format(s) (tables, maps, etc.) Detailed tables available.
4n. 5.	Restrictions and Conditions Mill authorization required for data release.	5. Restrictions and Conditions None; searches should be conducted by the responsible organisation
6	Price Information No charge.	6 Price information No charge.
7.	Corresponding Printed Sources No reports or periodic publications	7 Corresponding Printed Sources Municipal Water Use in Canade, 1983.
8	Languages The database contains only numbers.	8 Languages Reports available in English and French.
9	User Aids Available None.	9. User Aids Avaitable None.
10.	Keywords Effluents; Industry; Liquid wastes; Metallurgical industry; Mining; Ontario; Pollutants; Wastes; Water	 Keywords Drinking water; Effluents; Groundwater; Liquid effluents; Municipalities; Wastes Wastewater treatment, Water; Water use
11.	Additional information This database is relatively new. It will be expanded as more data become available. Its primary function now is to determine which contaminants should be measured, critical regulatory limits, and at what stage in processing levels should be measured.	 Additional Information Publication listed in 7 is available from Publications, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3. This database will become a major component of the NAQUADAT database when operational.

	Municipal Waterworks and Wastewater System Data (MUNDAT)		National Air Pollution Surveillance Network (NAPS)
1.	Datafile Name(a) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents: A national inventory of municipal waterworks and wastewater system. Data from approximately 3,600 municipalities, 1,540 wastewater treatment plants, and 2,900 water treatment plants.	2a.	Summary Description of Contents Data from a Canadian network of stations continuously monitoring common air contaminants.
2b.	Purpose of the Database To maintain data on drinking water treatment and wastewater treatment facilities.	26	Purpose of the Database. To identify national trends in levels of specific air pollutants; to monitor compliance with national objectives established in the Canadian Environmental Protection Act
3a.	Name and Address of Responsible Organization Environmental Protection, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	3a.	Name and Address of Responsible Organization Pollution Measurement Division, River Rold Environmental Technology Centre, Environmental Protection, Conservation and Protection, Environment Canada, 3439 River Road, Ottawa, Ontario, K1A 0H3.
ЗЬ.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Robert Christensen (819) 953-1113 FAX: (819) 997-3068	Зb.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. John Shelton (613) 991-9453 FAX: (613) 998-0004
Зс.	Access Mechanisms Through the responsible organization.	Зс	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - municipality (name, population) - watershed	4a.	Variables Included (summarized if extensive) - sulphur dioxide (SO ₂) - carbon monoxide (CO)
	 population served flow (average m³/day, design m³) treatment plant names 		 ozone (O₂) nitrogen dioxide (NO₂) total suspended particulate matter
	 water supply and treatment water source (surface, ground) storage (m³) 		- inhalable particulate matter - lead (Pb) - prirates
	 treatment type (filtration, chlorine, sedimentation, coagutation) wastewater treatment and disposal 		- sulphates
	 sewer system (sanitary, combined, separate) treatment level (primary, secondary, lagoons, septic tank) treatment type (facultative, aerated, bar screen, primary clarification etc.) 	4b. (Geographic Coverage National, approximately 140 monitoring stations in 55 Canadian cities, all provinces and territories are represented.
4b.	Geographic Coverage National, approximately 3,600 municipalities, 1,540 wastewater	4c.	Data Acquisition Method(s) Individual monitoring stations.
	treatment plants, plus 2,900 water treatment plants.	4d. (Geographic Unit(s) of Measurement Site specific measurements.
4c	Data Acquisition Method(s) Questionnaire.	46.	Peri>d of Record 1974 - present
4d.	Geographic Unit(s) of Measurement Municipalities.	4f. 1	Update Frequency Monthly.
40	Period of Record 1974 - present	49 1	Database Herdware/Software Configuration Mainframe computer using custom software, data stored on magnetic tape.
	yearly	4h. (Output Format(s) (tables, maps, etc.) Tables of numbers.
49	Database Hardware/Software Configuration 1BM compatible microcomputer with DBASE software.	5. 1	Restrictions and Conditions No confidentiality or access restrictions Searches should be conducted for users by personnel of the Pollution Measurement Division.
4h	Output Format(s) (tables, maps, etc.) Tables.	6. 1	Price Information No charges for reasonably-sized requests
5.	Restrictions and Conditions None.	7. (Composeding Printed Sources Three reports are published: National Air Pollution
6	Price Information No charge.	1	Survaillance - Monthly summary, National Air Pollution Surveillance - Annual summary, Special reports as required
7	Corresponding Printed Sources National Inventory of Municipal Waterworks and Wastewater Systems in Canada, available approximately every 2 to 4 years; most recent report to 1986	8. I	Languages Reports are available in English and French. The database itself contains only numbers.
8.	Languages Reports and database are bilingual	9. (User Aids Available None.
9.	User Alds Available None.	10	Keywords Air pollution; Air quality; Environmental monitoring; Monitoring; Pollutants; Pollution; Urban areas.
10.	Keywords Drinking water; Effluents; Liquid effluents; Municipalities; Wastes; Wastewater treatment; Water, Water use.	11. /	Additional Information 1. The NAPS database resides at the Atmospheric Environment Service Computing
11_	Additional Information The publication in 7 is available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.	4 - 2	Centre at Downsview, Ontario. 2. Elata on all parameters are not necessarily available in all provinces and territories 3. Fublications listed in 7 are available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A

	National Analysis of Trends in Emergencies System (NATES)		National Archive (CLIMATE)
1.	Datafile Name(s) Not applicable.	Datafile Na	me(s) Not applicable.
2a.	Summary Description of Contents Inventory of accidents involving spills of hazardous materials (including hydrocarbons) in Canada and offshore to the 320 km limit. Data are provided on the cause of the accident, industry sector concerned, site type, material spilled, consequences, etc.	a. Summary continuous	Description of Contents Data from a Canadian network of stations y monitoring meteorological parameters.
2b.	Purpose of the Database To analyze accident trends and distribution of hazardous material spills and to assess contingency plans, equipment requirements, prevention	a. Name and Atmospheri	Address of Responsible Organization Canadian Climate Centre, c Environment Service, Environment Canada, 4905 Dufferin Street, Downsview,
	programs and regulation effectiveness.	Ontario, M3	BH 5T4
3a.	Name and Address of Responsible Organization Environmental Emergencies, Conservation and Protection, Environment Canada, 15th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3	b. Contact Pe Mr. Mike W	erson(s), Address (if different from 3a), Telephone and FAX Number(s) (ebb (416) 739-4335 FAX: (416) 739-4446
		c Access Me	chanisms Through the responsible organization.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gilles Cloutier (819) 953-6674 FAX: (819) 953-5361	a. Variables I	ncluded (summarized if extensive)
		- daily a	nd monthly climate
3c.	Access Mechanisms Through the responsible organization.	- evapor	ation
		- ice frei	eze-up/break-up, ice thickness
4a.	Variables included (summarized if extensive) Examples listed below:	 hourly 	weather observations
	 material spilled, amount 	- ozone	
	 reporting agency 	 radiation 	n
	 location (geographic area, latitude, longitude) 	- rate of	precipitation
	 site type (air, underground, river, bay, harbour etc.) 	- satelit	8
	 cause (collision, sinking, leak etc.) 	 snow of 	201/56
	 reason (intent, error, ice etc.) 	- soil ter	nperatures
	- source (tanker, train, aircraft etc.)	- sunshi	ne
	- sector (petroleum, pulp and paper, metallurgy etc.)	· upper	air
	- cleanup (who, % recovery)	station	information system
	 acts involved (none, arctic waters, municipal bylaw etc.) consequences (fish kill, human casualty etc.) 	- marine	weather observations
	concoquentee (non-wit, nontain backading etc.)	Geographi	c Coverage National and adjacent waters
4b.	Geographic Coverage National, all provinces, territories, and offshore to the 320 km limit		
4c.	Data Acquisition Method(s) Data reported to regional offices directly from the incident	Data Acqui	isition Method(s) Individual monitoring stations (approximately 30% of stations real time communication network).
	sites or obtained from provincial agencies.	Geographi	c Unit(s) of Measurement Varies - depending on parameter measured.
4d.	Geographic Unit(s) of Measurement Individual spills referenced by latitude and longitude	e. Period of I	Record 1840 - present.
40.	Period of Record 1968 - present.	Update Fre	equency Monthly
4 f.	Update Frequency Ongoing.	g. Database	Hardware/Software Configuration Mainframe computer using custom
4g.	Database Hardware/Software Configuration Digital, ORACLE.	software [Data are stored on magnetic cartridge.
4h.	Output Format(s) (tables, maps, etc.) Lists of incidences by constraints (defined parameters). Tables of incident numbers by type and geographic area.	h. Output For tapes, flopp	mat(s) (tables, maps, etc.) Statistical tabulations, maps, charts, magnetic by discs.
5	Restrictions and Conditions Some information may be restricted.	Restriction Canadian C	as and Conditions. No restrictions, requests for data should be directed to the Climate Centre.
6.	Price Information Cost recovery for organizations outside government. No charge within government (all levels).	Price Infor	mation Price schedule applies.
7	Corresponding Printed Sources Ten year summary report: Summary of Spill Events in Canada, 1974-1983	Correspon Catalogue;	ding Printed Sources Canadian Climate Normals, Climatological Station Principal Station Data; Computer Tabulations - fiche/paper; Monthly Record and disting (Tishe) - Monthly and Assured Materials Surgering Structure
8	Languages Reports and database are bilingual.	Monthly Ha	diation (liche); Monthly and Annual Meteorological Summaries
9	User Alds Available None.	numbers ar	n reports are available in English and French. The database contains nd station names, etc.
10	Keywords Accidents; Hazardous materials; Oil spills; Spills	User Aids Data (Surfa	Available Documentation for the Digital Archive of Canadian Climatological ce) Format Documentation for the Digital Archive of Upper Air. Handbook on
11.	Additional Information	Climate Da	ta Sources of the Atmospheric Environment Service.
	1. Database is being expanded to add more parameters.	Karana	Oliverty Oliverty shares Description Court Trans. In World
	Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.	. Neywords	Garnate, Garnate change, Precipitation; Show; Temperature; Weather
	 This database contains information for significant spills. Information pertaining to other spills is held in each regional office of Environmental Protection. 	1. Additional 1. The Na Directo	Information ational Climate Archive/Database resides on a computer in the Central Services grate
		2. The m popula	nonitoring sites are generally more closely spaced in the southern (more ted) parts of Canada.

	National Atmospheric Chemistry (NATCHEM)		National Harvest Survey - Game Birds
1	Datafile Name(s) Not applicable	1.	Datafile Name(s) National Harvest Survey, Species Composition Survey.
2a	Summary Description of Contents Air and precipitation chemistry data from all Canadian networks including CAPMON. Data are from all provinces and territories, except the Yukon Territory. U.S. annual summary data are supplied from the U.S. database Atmospheric Deposition System (ADS).	2a	Suramary Description of Contents Information on annual hunter activity and migratory game bird kill. Data are shared with the provinces and territories and the U.S. Fish and Wilclife Service.
2 b.	Purpose of the Database To provide Canada with the data archive system to combine air and precipitation chemistry data from federal and provincial networks in order to	26.	Purpose of the Database To determine harvest limits for the following year, and population trends for migratory game birds in Canada.
3a.	maximize the usefulness of the data Name and Address of Responsible Organization Air Quality Measurement and Analysis	3a	Name and Address of Responsible Organization National Wildlife Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.
	Research Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4	3b	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Dr. Marlene L. Phillips (416) 739-4449 FAX: (416) 739-5704	Зс.	Access Mechanisms Through the responsible organization.
3c	Access Mechanisms Through the responsible organization	4a	Variables Included (summarized if extensive) - federal migratory game bird hunting permit sales
4a.	 veriables included (summarized if extensive) precipitation hydrogen (H'), sulfate (SO₄"), nitrate (NO₁), chlorine (Cl) 		 federal migratory game bird kill (species, age, sex) hunter activity (number of recreation days, seasonal and daily bag).
	 sodium (Na*), potassium (K*), calcium (Ca**), magnesium (Mg**), ammonium (NH_e*) air 	4b.	Geographic Coverage National, including all provinces and territories.
	 sulphur dioxide (SO₂), nitric acid (HNO₃), sulphate (SO₄[*]), nitrate (NO₃), chlorine (Cl[*]) amonnum (NH[*]), sodium (Na[*]), potansium (K[*]) 	4d.	Geographic Unit(s) of Measurement Data stored by 10 minute degree blocks,
4b	Geographic Covenies National - all provinces and temtories except Yukon	40	Park d of Bacord 1967 - present
Ac.	Data Acquisition Method(a)	Af	India Francisco Annually June 1
	Precipitation wet only collectors	4	
	- daily, weekly, monthly sampling - Air	49.	Database renowing/Sortware Configuration IBM (DEC) 386 microcomputer and mainframe computer with custom software; data stored on magnetic tape.
	- air filter packs - 3 stage	4h	Output Format(s) (tables, maps, etc.) Tables.
	- nylon, tefton, cellulose	5.	Restrictions and Conditions Permit holder names are confidential
4d.	Geographic Unit(s) of Measurement Site specific, some watersheds.	6.	Price Information No charge.
40.	Period of Record 1978 - present.	7.	Comesponding Printed Sources Annual CWS Progress Notes entitled, "Migratory Game Birds Harvested in Canada During the Hunting Season" (see 11)
A.a.	Database Merduare/Software Configuration Mainforma/DC SAS DDASS IV	8.	Languages Reports are bilingual
4h	Output Format(s) (tables, maps, etc.) Tables, deposition maps.	g.	User Aids Available Migratory Game Bird Hunters and Hunting in Canada. CWS Report Seriet No. 43, 1978.
5	Restrictions and Conditions Access only through responsible organization.	10	Keywords Biota; Birds; Game birds; Hunting; Migratory birds; Wildlife.
6	Price Information No charge.	11.	Additional Information
7	Corresponding Printed Sources NATCHEM Annual Report		 Data are shared with the provinces and territories and the U.S. Fish and Wildlife Service, who may also produce publications. Publications in 7 and 9 are available from the responsible organization.
8	Languages English (and French eventually).		
9	User Aids Available None.		
10	Keywords Acid precipitation; Air quality; Atmospheric chemistry; Monitoring; Precipitation.		
11	Additional Information Data is supplied from provincial and federal networks U.S. annual summary data is supplied from ADS*		

- Data will ultimately be supplied to ADS*
 U.S. Atmospheric Deposition System (Database)

	National Registry of Toxic Chemical Residues (NRTCR)	National Water Quality Database (NAQUADAT)
1.	Datafile Name(s) Not applicable	1 Datafile Name(s) One file for each of five regions in Canada (see 11)
2a.	Summary Description of Contents A national database on toxic chemical levels in bird, mammal, reptile and amphibian specimens collected in the field.	2a Summary Description of Contents Results of field and laboratory analysis from 10,000 locations across Canada including rivers, lakes, groundwater and precipitation. Over 1,500 different analytical codes are used in the database.
2b. 3a.	Purpose of the Database To provide data on toxic chemicals in wildlife for use in determining contaminant effects and assessing trends in contaminant levels. Name and Address of Responsible Organization National Wildlife Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gametin Blvd., Hull, Quebec, K1A 0H3	 Purpose of the Database To provide a national repository for water quality data collected in Canada, including five databases corresponding to the Directorate's five regions: Atlantic, Quebec, Ontario, Western and Northern and Pacific and Yukon. Name and Address of Responsible Organization Ecosystems Sciences and Evaluation,
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bryan Wakeford (819) 997-1412 FAX: (819) 953-6612	Environment Canada, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3. 3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Brookshank. (819) 997-3424. FAX (819) 953-0461
3c.	Access Mechanisms Through Head, Laboratory Services, via a National Registry of Toxic Chemical Residues Data Request Form available from the responsible organization.	 Access Mechanisms Data currently available on disk or magnetic tape through the responsible organization or via remote access through DATAPAC.
4a. 4b.	Variables Included (summarized if extensive) wildlife characteristics species (bird, mammal, reptile, amphibian) age, sex, breeding condition collection data (where, when, how, by whom) specimen analysis methods (where, when, tissue) analysis results, common tissue parameters (% fat, % water), contaminant levels (e.g., dioxin, organochlorine pesticides, PCBs, mercury, trace elements) sample storage (where, when, how many) Geographic Coverage National, including all provinces and temtories, some specimens from the U.S. and Central and South America.	 4a. Variables included (summarized if extensive) Over 1 600 measured, but not at all sites for example: aquatic organisms fish (contaminants in tissue) algae (growth, presence) sediments (nutrients, trace metals, DDT, 2,4-D, BOD, pH) bacteria (fecal coliform, fecal strep) chemical properties (trace metals, total phosphorus, pH, oxygen concentration) physical properties (depth, water table, discharge, light penetration) precipitation (pH, type)
4c.	Data Acquisition Method(s) Laboratory analysis of specimens collected in the field	4b. Geographic Coverage National, approximately 10,000 locations covering all provinces
4d.	Geographic Unit(s) of Measurement Specimen specific measurements	and territories.
4 e.	Period of Record 1963 - present.	4. Deter requirement were only including stations, not solveys. 4. Geographic limit(s) of Measurement. Site specific measurements referenced by latitude
4 f.	Update Frequency Continuous	and longitude.
4 g	Database Hardware/Software Configuration Microcomputer with DBASE software.	4e. Period of Record 1960 - present.
4h.	Output Formet(s) (tables, maps, etc.) Five formats will be available that provide different data (see 9).	4f. Update Frequency Updated as new information is received (frequency of input varies from region to region).
5.	Restrictions and Conditions Data will be released unless they are pending publication by the original submitter, written permission from the latter is required for data release. Other conditions concerning data use are given in guide 1 (9).	4g. Database Hardware/Software Configuration Mainframe VAX 6410, VMS ORACLE DATAPAC, data stored on magnetic tape.
6.	Price information No charge	4h. Output Format(s) (tables, maps, etc.) Graphs, tables.
7.	Corresponding Printed Sources One summary report produced (11). Toxic chemical residues catalogue senes (5 regional volumes) - list of data organized by species, tissue,	 Restrictions and Conditions Some of the data used in relation to the Canadian Environmental Protection Act may be restricted.
	year, province and number of analyses for each chemical.	6. Price Information See 11
8.	Languages Report in English; future reports will be available in French as well	7 Corresponding Printed Sources Data reports are no longer produced; numerous other publications prepared (see 11).
9.	Chemical Residues. Technical Report Series, No. 27, CWS. 1987. A Guide to the Canadian Wildlife Service National Specimen Bank is in preparation.	8 Languages Publications produced are bilingual; language used in relation to databases is optional and there is a bilingual dictionary on the system.
10.	Keywords Biota; Biotic contamination, Contaminants; Pesticides; Pollutant levels; Residues; Toxics; Wildlife.	 User Aids Available NAQUADAT dictionary of parameter codes, 1988. Other guides currently available will soon be obsolete (see 11); new ones are in preparation and will be available when the user signs on the system.
11.	 Additional information Summary report. Noble, D.G. (1990). Contaminants in Seabirds. EN1-11/90-2E, Environment Canada, Ottawa. Publications listed in 7 and 9 can be obtained from the responsible organization. The first guide in 9 summarizes the data available in the database (up to 1984) by species, chemical, geographical area, date and publication. The database contains data on all species in the specimen bank, both those on which analyses have been performed and those that have not been analysed. 	 Keywords Aquatic ecosystems; Environmental monitoring; Metals; Monitoring; Nutrients Organic pollutants; Pesticides; Sediments; Water, Water pollution; Water quality Additional Information Many site specific water quality data reports and the list of parameter codes are available from Publications, Conservation and Protection, Environment Canada, 8th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3. Many data are also available from regional sources, i.e. regional offices of Environment Canada. It is however recommended that initial contact concerning water quality data matters be with the NAQUADAT database manager in Hull

	Neckbanding of Arctic Geese		Non-ferrous (Base Metai) Smeiters Database
1	Datafile Name(s) Not applicable	1	Datafile Name(s) One for each of 10 smelters
2a.	Summary Description of Contents Counts and locations for neck-banded Arctic geese from the U.S.S.R. to Mexico during fall and spring migration and on the breeding grounds.	2a.	Summary Description of Contents A database covering all Canadian non-ferrous, base- metal smelters including processing equipment, air emissions, pollution control methods and production
2b.	Purpose of the Database To provide information on migration patterns and population dynamics for use in species management.	2b.	Purpose of the Database To monitor the Canadian non-ferrous, base-metal smelting
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Perimeter Road, Saskatoon, Saskatchewan, S7N 0X4	За	Industry with respect to sulphur dioxide and trace element emissions. Nonve and Address of Responsible Organization Mining, Mineral and Metallurgical Process Division. Industrial Programs Branch, Environmental Protection, Conservation and
3b.	Contact Person(s), Address (if different from 3a), Tetephone and FAX Number(s) Dr Richard Kerbes (306) 975-4087 FAX (306) 975-4089	36	Protection, Environment Canada, Ottawa, Ontano, K1A 0H3. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
Зс.	Access Mechanisms Through the responsible organization		Mr. John MacLatchy (819) 953-1605 FAX: (819) 994-7762
4a.	Variables Included (summarized if extensive)	3c	Access mechanisms Through the responsible organization.
	 species (Ross' geese, snow geese, white-fronted geese, small Canada geese) code on neck band observation on flock size and composition 	4a.	Variables Included (summarized if extensive) - processes used (roasting, smelting, converting) - emission parameters
	- date, time, province/state		 sulphur dioxide (SO₂)
	latitude, longitude	1.5	 parriculates heavy metals, (nickel, copper, lead, zinc, cadmium, mercury, chromium, arsenic) metals (active)
ŧЬ	Geographic Coverage From Wrangel Island (U.S.S.R.), Alaska, western North America to Mexico.		 smearer location (city) metal production on annual basis by-products (sulphuric acid, liquid sulphur dioxide) bip collution constrait constraints, electroctatio constraintstom)
lc.	Data Acquisition Method(s) Field observations from a network of observers as well as casual observations are sent to CWS.	4b.	Geographic Coverage All 10 Canadian non-ferrous, base-metal smelters.
4d.	Geographic Unit(s) of Measurement Observations referenced by latitude and longitude to the nearest minute.	4c	Data Acquisition Method(s) Variable data (no federal regulations) provided by companies to regional offices, headquarters or provinces.
te	Period of Record 1987 - present.	4d	Geoşiraphic Unit(s) of Measurement Individual smelters.
ŝf.	Update Frequency Annually	40.	Pericd of Record 1970 - present
lg.	Database Hardware/Software Configuration UNIX minicomputer with AWK.	41.	Update Frequency Irregular, usually annually.
th.	Output Formet(s) (tables, maps, etc.) Tables.	49	Database Hardware/Software Configuration Paper file.
5.	Restrictions and Conditions None	4h	Output Format(s) (tables, maps, etc.) Tables and text.
S.	Price Information No charge.	5.	Restrictions and Conditions None.
7.	Corresponding Printed Sources One or two progress reports are published annually.	6.	Price Information No charge.
3.	Languages The database is in English; the reports are bilingual	7.	Corresponding Printed Sources None.
9.	User Aids Available None.	8.	Languages Database is in English.
10.	Keywords Arctic; Bird banding; Birds; Geese; Migratory birds.	9.	User Aids Available None.
11.	Additional Information Complementary databases provide breeding population size information for snow and Ross' geese based on inventories by air photography and origin information for neckbanded geese.	10.	Keywords Air emissions, Air pollution, Emissions; Industry; Metallurgical industry; Metals; Mining; Smelters; Sulphur dioxide;
		11.	Additional Information The database will be put on a microcomputer in the future.

	Northern Dredging Database	Northern Land Use
1	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Details on materials, sites, and methods for dumping and dredging in the Beaufort Sea.	 Summary Description of Contents A series of maps providing information on naturesources and related human activities for Canada north of 60° latitude.
2Ь.	Purpose of the Database To archive information on dredging and dumping in the Beaulort Sea.	2b. Purpose of the Database To be used as a planning and management tool for Cana north of 60° latitude.
3a.	Name and Address of Responsible Organization Environmental Protection, Conservation and Protection, Pacific and Northern Region, Environment Canada, Box 370, Velowiting Northwest Territories, X14, 293	3a. Name and Address of Responsible Organization Canada Map Office, 130 Benti Street, Nepean, Ontario, K1A 0E9.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. André D'Entremont (403) 873-3456 FAX: (403) 873-8185	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Andrews (613) 952-7000 FAX: (613) 957-8861
Зс.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the contact person.
4a.	Variables Included (summarized if extensive)	4a. Variables included (summarized if extensive) Numerous topics including: wildlife
	 dates (start, finish of operation) purposes of dredging/dumping company, dredge name and type, contact 	 major groups (seabirds, polar bears, waterfowi, caribou, arctic fox, man mammals) hazards (disturbance)
	 sediment type (sand, gravel, sitt) load/dump volume total load site/dump site (latitude, longitude, name, depth) 	 habitat (boundaries, activity, seasonal use) fish species (arctic char, lake trout, stickleback)
	 dump method (off barge, cutter, suction dredge, pump) island created (name, type, status of year end) 	 habitat (spawning, migration areas) fishery (domestic, commercial)
4b.	Geographic Coverage Offshore Beaufort Sea, Northwest Territories.	 hunting and trapping (species harvested, area covered) ecodistricts (topography, soils, geology, water, vegetation, wildlife) coastal twoe (beaches cliffs, plans glaciers, hills, riverine)
4c.	Data Acquisition Method(s) Data supplied by industry	 areas of interest (wildlife sanctuaries, IBP sites, Natural Areas/Sites of Canadi significance, sports fishing camps)
4d.	Geographic Unit(s) of Measurement Individual dumping/dredging sites referenced by latitude and longitude	4b. Geographic Coverage Canada north of 60° tatitude, excluding Ellesmere Island, a Quebec
4e.	Period of Record 1959 - 1986.	4. Date Acculation Method(a) From evistics many and studies, additional field surrous
4f	Update Frequency Not updated beyond 1986	personal communications
4g.	Database Hardware/Software Configuration Microcomputer with DBASE III software.	4d. Geographic Unit(s) of Measurement Not applicable
4h.	Output Format(s) (tables, maps, etc.) Tables, published report (see 7).	4e Period of Record Data were collected between 1971-1986.
5.	Restrictions and Conditions None.	41 Update Frequency Unlikely to be updated
6.	Price Information No charge for reasonably-sized requests.	4g Database Hardware/Software Configuration The maps are supported by paper file
7.	Corresponding Printed Sources One report has been produced. Sackman, T., J.W. McDonald, T. Browyer and L. Turney (1986). Database Compilation of Dredging Activity	4h Output Format(s) (tables, maps, etc.) Approximately 400 maps.
	in the Canadian Beaufort Sea, a Supplementary Report EP, Western and Northern Region 86/87 - CP (EP) - 14.	5. Restrictions and Conditions None
8.	Languages Report is in English.	6. Price Information Map cost is approximately \$4 each.
9.	User Alds Available None	 Cerresponding Printed Sources Some of the information used to generate the maps also published in reports (see 11).
10.	Keywords Arctic; Dredging; Ocean dumping; Waste disposal	8. Langunges English
11.	Additional Information	9. User Aids Available Pamphlet describing the database.
	 This database contains similar information to that in the Ocean Dumping Permit System (ODUMP) database. 	10. Keywords Arctic; Land; Land use; Northwest Territories; Wildlife; Yukon.
	2. This database has no editing capability. New information will likely be entered in the Doean Dumping Data System database of Environment Canada.	11. Additional Information
		 The database consists of maps with legends providing great detail on the featur mapped. The back of each map provides a bibliography for the area covered.
		 Maps, (Northern Land Use Information Series) reports and the user aids are availal from the responsible organization or the Canada Map Office, 130 Bentley Aven the canada Map Office, 130 Bentley Aven
		 The map series is incomplete - coverage for Quebec and Ellesmere Island is available.

- From this database, the Northern Perspective map series is derived which provides information at a scale of 1.5,000,000 on selected topics covered by the database (e.g. caribou, development and resource potential).
- caribou, development and resource potential).
 5 Fisheries reports for all sections, a wildlife report for one section and a land use report for one section have been prepared.

	Northern Ontario Waterfowi Database		Nuclear Data System (NUDAT)
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Waterfowl population density, species occurrence and habitat preference information.	2a.	Summary Description of Contents A registry of contaminants in effluents associated with uranium mining/milling operations in Ontario.
2b.	Purpose of the Database To monitor waterfowl populations and to determine range and habitat requirements.	2b	Purpose of the Database To assess compliance with discharge limits, identify trends in the accumulation of environmental pollutants and to evaluate annual loadings.
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Ontario Region, Conservation and Protection, Environment Canada, 49 Camelot Drive, Nepean, Ontario, K1A 0H3.	За.	Name and Address of Responsible Organization Oil, Gas, and Energy Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ken Ross (613) 952-2415 FAX: (613) 952-9027	36.	Cortact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Pat Vasudev (819) 953-1127 FAX: (819) 994-7762
Зс.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) species - sex density - wetland habitaj type	4a.	Variables Included (summarized if extensive) - radionuclides (uranium, radium - 226) - non-radionuclides (nitrates, sulphates, heavy metals) - pH - alkalinity - test dis short or lide
4b.	Geographic Coverage All of Ontario north of the French and Mattawa rivers	4	
4c.	Data Acquisition Method(s) Plots surveyed by helicopter.	40.	Geographic Coverage Ontano.
4d	Geographic Unit(s) of Measurement Wetland specific within 2x2 kilometre plots, referenced by UTM coordinates.	4c. 4d.	Data Acquisition Method(s) Monitoring data supplied by mining companies. Geographic Unit(s) of Measurement Site specific measurements.
40	Period of Record 1980 - present	40.	Perked of Record Data from 1980 - 1986 have been entered in the database; data after this period to the present are available but will not be entered.
41.	Update Frequency Yearly.	4f.	Update Frequency Formerly annually; no longer updated.
₽ġ.	software.	49.	Database Hardware/Software Configuration Mainframe computer with SYSTEM 2000 database management
4h.	Output Formet(s) (tables, maps, etc.) Tables and maps (SPANS format).	4h.	Output Format(s) (tables, maps, etc.) Tables.
5.	Restrictions and Conditions None	5.	Restrictions and Conditions None.
5.	Price information No cost	6.	Price Information Undetermined.
7.	Corresponding Printed Sources None.	7.	Corresponding Printed Sources A summary report is being planned
В.	Lunguages English.	8.	Languages Tables contain numbers only.
9.	User Aids Available None.	9	User Aida Available None
10.	Keywords Biota; Birds; GIS; Habitats; Ontario; Waterfowl; Wildlife.	10	Kawwarda Efficients: Industri: Mining: Nuclear peoper: Ostasia: Bellidente: Dedised: it.
11.	Additional Information None.	10.	Rivers, Uranium; Water quality.
		11.	Additional information Due to the fact that the DBMS (System 2000 at Energy, Mines and Resources) is no longer being supported, and due to the inability to obtain data from the uranium mining companies, this database has been rendered inactive. A hard copy is available

	Ocean Dumping Database System Pacific and Yukon Region		Ocean Dumping Permit System (ODUMP)
1.	Datafile Name(a) Not applicable.	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Data from applications and permits for ocean dumping, including load and dumpsite monitoring and aquaculture information.	2a.	Summary Description of Contents Applications and permits for ocean dumping including load and dump site monitoring for Canada.
2b.	Purpose of the Database To regulate ocean dumping and loading for the purpose of ocean dumping, to monitor compliance with the ocean dumping provisions of the Canadian Environmental Protection Act (CEPA) and to control aquaculture operations.	2b.	Purpose of the Database To regulate ocean dumping and loading for the purpose of ocean dumping, and Io monitor compliance with the ocean dumping provisions of the Canadian Environmental Protection Act (CEPA), Part IV.
3a.	Name and Address of Responsible Organization Waste Management, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	За.	Name and Address of Responsible Organization Waste Management, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. J. Karau (819) 953-1699 FAX: (819) 994-7762	Зb	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Linda Porebaki (819) 997-2046 FAX: (819) 994-7762
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization. Data available on-line with remote access.
4a.	Variables included (summarized if extensive) - ocean dumping/loading - permit details (number, permittee) - dump site (location, date) - load site (location, date) - material dumped - trace metals in material - organics in material - organics in material - enforcement activities - aquaculture - lease details - effluent site - species cultured	4a. 4b. 4c.	Variables Included (summarized if extensive) - - permit type - loading details, dump sites, roule to site - dumping method, rate, quantity of material - type of material dumped - monitoring requirements and restrictions Geographic Coverage Waters within Canadian jurisdiction under the ocean dumping control provisions of CEPA Data Acquisition Method(s) Individual permit applications.
	- monitoring samples (date)	4d.	Geographic Unit(s) of Measurement Site specific details.
4b.	Geographic Coverage Waters within Canadian jurisdiction under the ocean dumping control provisions of the Canadian Environmental Protection Act (CEPA).	40.	Period of Record 1975 - 1989.
4c.	Data Acquisition Method(s) Individual permit applications	4f.	Update Frequency No longer updated.
4d	Geographic Unit(s) of Measurement Site specific details.	4g.	Database Hardware/Software Configuration Mainframe computer with SYSTEM 2000. Database management using COBOL and FORTRAN
40.	Period of Record 1989 - present	4h.	Output Format(s) (tables, maps, etc.) Tables.
4f.	Update Frequency As required.	5	Restrictions and Conditions None.
4g.	Database Hardware/Software Configuration Microcomputer, ORACLE	6.	Price Information No charge.
4h.	Output Format(s) (tables, maps, etc.) Tables.	7.	Corresponding Printed Sources Ocean Dumping Control Act annual reports produced (see 11)
5.	Restrictions and Conditions None	8	Lennuenes. Annual reports are bilingual
6.	Price Information No charge.	0	Hear Aide Australia None
7.	Corresponding Printed Sources Keeping the Oceans Clean (1986-87) CEPA Report (1988-90).	10.	Keywords Contaminants; Dumping permits; Marine; Ocean dumping; Oceans; Waste
8.	Languages Annual reports are bilingual.		disposal; Wastes.
9.	User Aids Available None.	11.	Additional Information 1. The database is located at the Department of Energy, Mines and Resources, Ottawa.
10.	 Keywords Aquaculture: British Columbia; Contaminants; Dumping permits; Marine; Ocean dumping; Oceans; Pacific; Pollution control; Waste disposal; Wastes. Additional Information This database is currently being evaluated with a view to replacing the Ocean Dumping Permit System (ODUMP) in Ottawa with a version of this database. It will contain information on aquaculture leases across Canada. All ocean dumping permits are published in the Canada Gazette. 		 Plans are underway to replace ODUMP files with a national computer database (see Ocean Dumping Database System Pacific and Yukon Region). Data gathered after 1989 are being held in regional offices unbil the new database is operational. All permits are published in the Canada Gazette. Most recent annual report: Keeping the Ocean Clean, 1986/87 Annual report; available from the responsible organization.

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	Ontario Forest Bird Monitoring Program		Ozone Depleting Substances: Trade and Use
1.	Datafile Name(s) Not applicable	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Bird species and abundance for each major forest type throughout Ontario	2a.	Summary Description of Contents Information that industry is compelled to provide concerning the trade and use of ozone depleting substances. It covers chkirofluorocarbons, hydrofluorocarbons, 1, 1, 1- thchloroethane (methyl chloroform) carbon
2b.	Purpose of the Database To identify trends in forest bird populations and to identify critical habitats.		tetrachloride and halons.
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Environment Canada, 49 Camelot Drive, Nepean, Ontario, K1A 0H3.	26	Purpose of the Database To support implementation and compliance activities relating to the Montreal Protocol on Substances that Deplete the Ozone Layer.
36.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Dr. Dan Welsh (613) 952-2405 FAX: (613) 952-9027	3a	Narve and Address of Responsible Organization Commercial Chemicals Branch, Conservation and Protection, Environment Canada, 14th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3c.	Access Mechanisms Through the responsible organization.	36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Yves Bovet (819) 953-1668 FAX: (819) 953-7155
99-01.	- bird species and abundance;	3c.	Access Mechanisms Through the responsible organization.
	- tree species, density and vegetative cover		Martine to the day of the second s
4b.	Geographic Coverage Ontario	4.8	variables included (summarzed if extensive) company (contacts, addresses) name of substance
4c.	Data Acquisition Method(s) Point count bird survey method (volunteers and staff of CWS).		 production, import and export of substances quantities used for various applications
4d.	Geographic Unit(s) of Measurement Forest stand.	4b	Geo graphic Coverage Canada
40	Period of Record 1987 to present	4c	Data Acquisition Method(s) Company questionnaires forwarded annually.
4f.	Update Frequency Yearly	4d.	Geo; raphic Unit(s) of Measurement Individual companies.
4g.	Database Hardware/Software Configuration PC based; SAS, ORACLE.	40	Perivid of Record 1971 - present for CFCs and HCFCs; 1986 - present for halons; 1989 - present for methyl chloroform and carbon tetrachloride.
4h.	Output Format(s) (tables, maps, etc.) Tables		
5.	Restrictions and Conditions No restrictions.	41	Updrite Frequency Annually
6.	Price Information Depends on the request.	49	Database Hardware/Software Configuration IBM compatible microcomputer with ORACLE (in planning stage).
7.	Corresponding Printed Sources Technical and scientific reports in progress	4h.	Output Format(s) (tables, maps, etc.) Tables.
в.	Languages English	5.	Restrictions and Conditions Most of the information is protected from disclosure under the Canadian Environmental Protection Act
9.	User Aids Available None.		
10.	Kayworda Biota; Birds; Forests; Habitats; Ontario, Wildlife.	6.	Price information No charge for reasonably-sized requests.
11.	Additional Information None.	7.	Corresponding Printed Sources Annual reports are prepared for halons and chlorofluorocarbons.
		8.	Languages The reports are bilingual.
		9.	User Aids Available None.
	and the second of the second second	10	Keywords CFCs; Chlorofluorocarbone; Halons, HCFCs; Hydrochlorofluorocarbons; Ozone; Ozone depleting substances; Ozone layer.
		11.	Additional information

- Summary reports are available to the public
 Naw substances are being added to the database (e.g. 1,1,1- trichloroethane (methyl chiloroform).

	Park Use Related Data System (PURDS)		Pesticide Registrant Survey
1	Datafile Name(s) Not applicable	1. Detafil	e Name(s) Not applicable
2a.	Summary Description of Contents Information on use of national historic sites and historic canals as well as information on park and site users.	2a. Summ active inform	ary Description of Contents Sales data for selected pesticides broken down by ingredient, province and use pattern for Canada, excluding the territories. Includes ation on herbicides, insecticides, fungicides, fumigants, and preservatives.
26.	Purpose of the Database To provide data for the use of socio-economic concepts during the analysis of decisions pertaining to national parks and historic sites.	2b. Purpo or ass	se of the Database. To provide, to federal personnel who deal with the evaluation essment of pesticides, information concerning the quantities of selected pesticides
3a.	Name and Address of Responsible Organization Socio-economic Branch, Canadian Parks Service, Environment Canada, 241 Cité des Jeunes Blvd., Hull, Quebec, K1A 0H3.	sold in	Canada.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J. Beaman (819) 997-6305 FAX: (819) 953-4908	Comm	ercial Chemicals Branch, Environmental Protection, Conservation and Protection, nment Canada, 14th Floor, 351 St. Joseph Blvd , Hull, Quebec, K1A 0H3.
36.	Access Mechanisms Through contact with Systems Management Analyst, Socio-economic Information Division (819) 994-1979.	3b. Conta Mr. Te	ct Person(s), Address (if different from 3a), Telephone and FAX Number(s) dd Brien (819) 953-1669 FAX: (819) 953-7155
4a.	Variables Included (summarized if extensive) - entries	3c. Acces	s Mechanisms Through the responsible organization.
	- visits	4a. Variab	les Included (summarized if extensive)
	 visit-days/visit-hours 	- vc	lume of pesticide (kg/l)
	- party-nights	~ ac	tive ingredient (kg)
	person-nights	~ 00	mpany selling product
	 vehicles 	- pr	oduct registration number
	- persons	- m	arket type (domestic, commercial, restricted products)
		- US	e pattern (where, on what, what is to be controlled)
4b.	Geographic Coverage National.	- 10	rm of product (solution, solid, emulsion)
		- pe	esticide type (herbicides, insecticides, fungicides, fumigants, preservatives)
4c.	Data Acquisition Method(s) Traffic counters: Camping permits: Observation, Pedestrian counters.	4b. Geogr	aphic Coverage National, excluding the territories.
4d.	Geographic Unit(s) of Measurement National Parks; National Historic Sites; Historic canals.	4c. Data A under Act.	cquisition Method(s) Survey forms from companies; data collected confidentially the Pest Control Products Regulations and the Canadian Environmental Protection
4 0 .	Period of Record 1983 - present.	4d Geogr	aphic Unit(a) of Measurement Provinces (kg/active ingredient sold)
41	Update Frequency Monthly.		
4g.	Database Hardware/Software Configuration DOTS, HYPERQUEST, IBM PC	4e Period	l of Record 1981 - present
	compatible, ORACLE, SAS, ZIM.	4f. Updat	e Frequency Annually
4h.	Output Format(s) (tables, maps, etc.) Tables and graphs	4g Datab	ase Hardware/Software Configuration COMPAQ 286 with custom software.
5.	Restrictions and Conditions None	4h Outpu	t Format(s) (tables, maps, etc.) Tables.
6.	Price Information No charge	5. Restri remain	ctions and Conditions. Except for the annual, general two page summary, the ider of the data are confidential.
	Parks Service: Overview and Statistics on Visitor Participation 1987 - 1988. Information from the Public Use Database 1987 - 1988.	6. Price	Information There is no charge for the annual summary.
8.	Languages English/French.	7. Corres (those	sponding Printed Sources A confidential annual report with restricted access with a purpose under the Canadian Environmental Protection Act) is produced (see
9.	User Aids Available User Guide Manual (requires updating).	8 Langu	aces. The annual report and the summary is in English
10.	Keywords Historic sites; Land, Land use, Parks.	9. User /	Aids Available None
11.	Additional Information None		
		10. Keywo Pestici	orde Agriculture; Contaminants; Forestry; Pest management; Pesticide registration; des; Pests.
		11. Additi 1. D. E. 2. O 3 Ti su alt	onal Information atabase access is restricted to those who have a requirement under the Canadian nvironmental Protection Act. Inly data after 1985 are computerized. Detail of use pattern is highly variable, he annual two page summary provides total sales data by province and national immaries for number of products sold for five general categones of pesticides. It so lists by name the herbicides, insecticides and fungicides that account for 80% of e total sales in these categories.

		-	
	Piping Plover Nesting Sites		Pollution incident Report Records Collection
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Information on piping plover populations in Atlantic Canada	2a.	Summary Description of Contents Pollution incident reports and other information on significant spills and environmental emergencies in Canada and Canadian offshore waters. Thisse reports are usually filed within 24 hours of incident occurrence and therefore
26.	Purpose of the Database To maintain data on the population of piping plovers in Atlantic Canada	26	prefirminary in their assessment.
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Environment Canada, Sackville, New Brunswick, EOA 3CO		environmental emergencies.
3b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Bruce Johnson (506) 536-3025 FAX: (506) 536-3028	За.	Name and Address of Responsible Organization National Environmental Emergency Centre, Conservation and Protection, Environment Canada, 15th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3c.	Access Mechanisms Through the responsible organization or contact person	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Mazerolle. (819) 997-3742 FAX: (819) 953-5361
4a.	Variables included (summarized if extensive) - number and location of breeding pairs - number of edgs per nest	3c.	Access Mechanisms Through the responsible organization.
4b.	Geographic Coverage Atlantic Provinces - coastal beach and dune systems.	4a	Variables included (summarized if extensive) The report is a verbal account of the incident, typically providing the following information:
4c.	Data Acquisition Method(s) On-site inspections during the nesting season (June-July)		- reporting agency - location
4d.	Geographic Unit(s) of Measurement Bird-nesting sites		site type (e.g. air, underground, river, bay)
40.	Period of Record 1975 to the present.		 reason (e.g. intent, error, ice) source (e.g. tanker train aircraft)
4f.	Update Frequency Surveys in National Parks are annual. Surveys elsewhere are opportunistic		sector (e.g. tarmer, train, and any) sector (e.g. petroleum, pulp and paper, metallurgy) environmental impact cleanum undertaken
4 g.	Database Hardware/Software Configuration Hard copy.	dh	
4h.	Output Format(s) (tables, maps, etc.) Tables of numbers and maps.	40.	Dete Appropriet Contenant In the deal to a set the set of the deal of the set
5.	Restrictions and Conditions Some restriction may apply to prevent disturbances to birds.	40.	agencies usually within 24 hours of incident reports are torwarded to Ottawa by all reporting
6.	Price information No charge.	4d	Geographic Unit(s) of Measurement Individual spills referenced by province, place name and date.
7.	Corresponding Printed Sources Les Oiseaux Menacés du Quebec. Environnement Canada, CWS 1989	40	Period of Record 1973 - present.
8.	Languages English	- 4f.	Update Frequency As incidents occur.
9.	User Aids Available None.	4g	Database Hardware/Software Configuration Paper file.
10.	Keywords Atlantic Canada; Birds; Piping plover; Wildlife.	4h	Ourput Format(s) (tables, maps, etc.) Text
11.	Additional Information	5	Reintrictions and Conditions Contact responsible organization.
	is generally available to the public, some discretion is used to protect breeding birds 2. Data are also used to evaluate the usefulness of protective measures	6	Price Information No charge.
		7	Corresponding Printed Sources None.
		Β.	Lar guages Database in English and French
		9.	Uerr Alds Available None.
		10.	Keywords Environmental accidents; Marine; Oil; Pollution; Spills; Transportation.
		11.	Additional Information
			1 This database provides verbal accounts of significant spills within 24 hours of occurrence. The National Analysis of Trends in Emergencies System database consists of coded variables, and may provide more accurate information resulting from

subsequent incident investigations.

and retains information on other spills.

2. Each regional office sends pollution incident reports to Ottawa only for significant spills

 Penodic summary reports are available from regional offices (e.g. A Summary of Trends Relating to Spills of Oil and Hazardous Materials in the Atlantic Region).

=n	vironment Canada		
	Prairie Habitat Monitoring Project	Precipitation Chemistry (EP - Atlantic Region)	
1	Datafile Name(s) Not applicable	1. Datafite Name(s) Not applicable	
2a	Summary Description of Contents Descriptive and area data for individual habitat polygons interpreted from aerial photographs of sample quarter sections of land in the three Prairie Provinces of Canada.	 Summary Description of Contents Precipitation chemistry data (catch, pH, major for Atlantic Canada from 1979 - 1990. 	ions)
2b.	Purpose of the Database To provide baseline habitat monitoring information to the North American Waterfowl Management Plan.	 Purpose of the Database To determine the chemistry of precipitation in Atlantic Ca and monitor acid rain characteristics. 	inada
3a.	Name and Address of Responsible Organization Prairie and Northern Wildlife Centre, Canadian Wildlife Service, Conservation and Protection, Western and Northern Region, Environment Canada 115 Perimeter Road Saskatoon Saskatchewan, S7N 0X4.	 Name and Address of Responsible Organization Environmental Protection, At Region, Environment Canada, 15th Floor, 45 Alderney Drive, Dartmouth, Nova Sco B2Y 2N6. 	llantic Itia,
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Tim Coleman, Canadian Wildlife Service, Room 210, 4999 98th Avenue, Edmonton,	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number Mr. William Moores (902) 426-2004 FAX: (902) 426-3574 2a Assess Backerings Through the segmential equipidation	r(#)
	Alberta, 168 2X3. (403) 468-8939 FAX: (403) 495-2615	3c. Access Mechanisms Inrough the responsible organization.	
3c.	Access Mechanisms Through the contact person.	4a. Variables Included (summarized if extensive) - catch in mm	
4a.	Variables Included (summarized if extensive) - site location (province, quarter section, ecoregion, physiographic units) - transect and quarter number	 pH chemical excess sulphate, nitrate, chloride, sodiurn, calcium, magnesium, potas ammonium 	sium
	 land cover, land activity (mapped) wetlands (number, extent, fringe and margin vegetation cover type, impacts) 	4b. Geographic Coverage Atlantic Canada.	
4b.	Geographic Coverage Prairie Provinces.	4c Data Acquisition Method(s) Precipitation samples collected during every event in	some
4c.	Data Acquisition Method(s) Aerial photograph interpretation with ground truthing.	cases to every two weeks at other stations using a Sangamo sampler.	
4d.	Geographic Unit(s) of Measurement Quarter sections (160 acres); 152 transects each containing 24 sections	4d Geographic Unit(a) of Measurement Monitoring stations (maximum 10 sampled i one time).	at any
de	Period of Record 1985	4e. Period of Record 1979 - 1990.	
		4f. Update Frequency No longer updated.	
41.	Update Frequency No immediate plans for resurveying transects.	4g Database Hardware/Software Configuration IBM compatible microcomputer with U	OTUS
4g.	Database Hardware/Software Configuration Mainframe computer with custom software.	and custom software	
4h.	Output Format(s) (tables, maps, etc.) Tables.	4h. Output Format(s) (tables, maps, etc.) Tables.	
5.	Restrictions and Conditions See contact person.	5. Restrictions and Conditions None.	
6.	Price Information No charge.	6. Price Information No charge	
7.	Corresponding Printed Sources Three reports have been prepared:	7 Corresponding Printed Sources None.	
	1 Baseline (1985) Habitat Estimates for the Settled Portion of the Prairie Provinces: No.1 Methode and Project Status - Prairie Habitat Magitarian Project (1987)	8. Languages The database is in English.	
	 Baseline (1985) Habitat Estimates for the Settled Portion of the Prairie Provinces: No. 2 Sankthebeura Parkland Part 1 (1998) 	9 User Alds Available None.	
	 Baseline (1985) Habitat Estimates for the Settled Portion of the Prairie Provinces: No. 3 Saskatchewan Parkland Part 2. (1989) 	10. Keywords Acid precipitation; Atlantic Canada; New Brunswick; Newfoundland; Scotia; Precipitation; Prince Edward Island.	Nova
8.	Languages The database and reports are in English.	11 Additional Information Data quality control varies within the dataset.	
9.	User Alds Available See first report in 7.		
10.	Keywords Alberta; Birds; GIS; Habitats, Manitoba; Saskatchewan; Waterfowl; Wetlands; Wildlife.		
11.	Additional Information There are plans to prepare reports for additional praine ecoregions (grassland, parkland, boreal transition forest) for each of the provinces.		

	Precipitation Chemistry of South Coast British Columbia (SCBC)		Public Opinion on the Environment
1.	Datafile Name(s) Not applicable	1.	Detafile Name(s) Not applicable.
2a.	Summary Description of Contents Event sampling of precipitation chemistry and analysis for major ions. Some trace metal analysis was also performed	2a.	Summary Description of Contents Results of national surveys of public opinion on en /ironmental issues such as acid rain, atmospheric change, critzen involvement, en /ironment and economy, environmental health, waste management, water, forests,
2b.	Purpose of the Database To monitor precipitation chemistry in the lower mainland, southern areas of Vancouver Island and the Gulf Islands.		environmental disasters, etc.
За.	Name and Address of Responsible Organization Scientific Services Division, Pacific Region, Atmospheric Environment Service, Environment Canada, No. 700, 1200 West 73rd Avenue Vancouver British Columbia V6P 6H9	20. 3a	Purpose of the Database To obtain a knowledge of public opinion on the environment for use in strategic planning.
3b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. B. Thomson (604) 664-9122 FAX: (604) 664-9195		Ed scation and Communications, Corporate Policy Group, Environment Canada, 27th Floor, 10 Weilington Street, Hult, Quebec, K1A 0H3
3c.	Access Mechanisms Through the responsible agency.	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms Louise Morgan (819) 953-9742 FAX. (819) 953-6789
4a.	Variables Included (summarized if extensive)	3с	Access Mechanisms Through the responsible organization.
	- trace metals	4a	Variables Included (summarized if extensive)
	- sodium - magnesium		 environmental issues (e.g. toxic chemicals contamination, acid rain, water quality, waste management)
	- subprate - chloride - pofassium		 relative significance of environmental issues relative significance of environmental versus other issues performance of federal/provincial governments in relation to the environment
	- calcium - ammonia		 responsibility for environmental protection willingness to pay for environmental protection, changes in purchasing decisions
4b.	Geographic Coverage South coast of British Columbia		 personal efficacy in contributing to the resolution of environmental problems. respondent characteristics (age, sex, education, language, income, occupation, location)
4c.	Data Acquisition Method(s) Individual monitoring stations.	4b.	Gengraphic Coverage National, all provinces and territories.
4d.	Geographic Unit(s) of Measurement Site specific measurements.	4c	Data Acquisition Method(s) Opinion surveys are conducted by telephone or in-house
40.	Period of Hecord 1983 - 1986. Specific range varies among sites.	Ad	inte views
4g.	Database Hardware/Software Configuration Mainframe computer.	-0	regionally
4h.	Output Format(s) (tables, maps, etc.) Data in tabular form on magnetic tape or diskette	40.	Period of Record 1970 - present
5.	Restrictions and Conditions No restrictions.	41	Upcate Frequency Quarterly reports are produced by private firms.
6.	Price Information Cost recovery policy.	49.	Output Format(s) (tables mans stc.) Tables and text
7.	Corresponding Printed Sources None.	5	Restrictions and Conditions The availability of information in private reports is limited
8.	Languages English.		by copyright agreement, the report produced by the responsible organization is available only within the federal government.
9.	User Aids Available Information through responsible agency.	6	Price Information No charge for the report prepared by the responsible organization.
10.	Regwords Acto precipitation, British Columbia: Marine, Monitoring, Pacitic, Precipitation.	7	Contact the appropriate private tirm for subscription costs.
	 Data is of short duration concentrating on episode or event analysis The project that supported this database was completed in 1986, thus the database 		Publications of private firms (see 11).
	is no longer updated.	8.	Lanjuages All reports are in English. French summaries are available from the private firms for their reports.
		9.	User Aids Available Brochures on the publications are available from the private report producers.
		10.	Keywords Public opinion
		11	 Additional Information This database is composed of reports describing public opinion surveys carried out by four private firms: Decima Research, Environics, International Environmental Monitor and Angus Reid and Associates

- Plans are to put the database on a computer eventually.
 The results of the polls are on computers at the firms who conduct them.

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	Pulp and Paper Industry Data Management System		Pulp and Paper Mill Profile System
1.	Datafile Name(s) Not applicable.	t. E	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on regulated effluents/emissions from the pulp and paper industry (and industry profiles).	2a. s	Summary Description of Contents A national database that provides information on pulp and paper mill production, effluents and targets.
2b	Purpose of the Database Production of annual compliance reports. Serves information requests.	26. F	Purpose of the Database. To indicate the degree of compliance of the pulp and paper adustry with established effluent regulations.
3a.	Name and Address of Responsible Organization Environmental Protection, Environment Canada, 1179 de Bleury, Montreal, Quebec, H3B 3H9.	3a. F	lame and Address of Responsible Organization Renewable Resources Extraction and Processing Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Casada 13th Elogr 251 St. Jacob Blod, Hull, Outbook
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Guy Coulombe (514) 283-2337 FAX. (514) 283-4423	H	(14 0H3
3c.	Access Mechanisms Through the organization responsible.	36. C	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ar. E. Trevor Ruthman (819) 953-1129. FAX: (819) 994-7762
4 a,	Variables Included (summarized if extensive)	3c. A	ccess Mechanisms Through the responsible organization.
	- BDD5	4a. V	ariables included (summarized if extensive)
	- biotoxicity (trout)		mill location
41-	Commentia Courses Ousbas (anominataly 50 industrial sites)		production
40.	Geographic Coverage Queoec (approximately 50 industrial sites).		materials produced (pulp, paper) rate (teaper(day))
4c	Data Acculation Method(a). Data are provided by the companies		 rate (tonnes/day) process (thermal mechanical pulp kraft sulphite)
	and inquinter institutely bala are previous by the companies.		effluent characteristics
4d.	Geographic Unit(s) of Measurement Data are reported by industrial site location.		 flow rate (m³/tonne)
			 total suspended solids (TSS)
40.	Period of Record 1984 to date		 biochemical oxygen demand (BOD)
			acute toxicity to fish
41.	Update Frequency Each year.	-	type of Waste treatment
4g.	Database Hardware/Software Configuration Microcomputer (software developed in KNOWLEDGEMAN).	4b. G	eographic Coverage National, 125 direct discharge mills.
		4c. 🖸	ata Acquisition Method(s) Company submitted data
411.	Ourput format(s) (tables, maps, etc.) [ables, fext.	44 1	nitiat of Measurement. Individual puls and paper mile
5.	Restrictions and Conditions Data are accessible through the Access to Information Law.	40. 0	nings) or measurement individual pulp and paper milis.
6.	Price Information No charge	4e. P	eriod of Record 1987 - present.
-		41. U	pdate Frequency Annual and as necessary.
7.	distribution)	49. D	atabase Hardware/Software Configuration Microcomputer currently with LOTUS 1-2-3, eing converted to DBASE.
8.	Languages Report available in French.	4h. C	Putput Format(s) (tables, maps, etc.) Text and tables; advanced report and query
9.	User Aids Available None.	a	bility.
10.	Keywords Effluents; Emissions; Industry; Pulp and paper; Quebec; Regulation; Water quality.	5 F	lestrictions and Conditions Searches must be conducted by the responsible rganization
11.	Additional Information None.	6. P	rice Information No charges for reasonably sized requests.
		7. C (:	corresponding Printed Sources Annual profile and pollution status reports are planned see 11)
		8. L	anguages Reports available in French and English. Database available only in English.
		9. U	Iser Aids Available None
		10. K V	(eywords Effluents; Industry; Liquid wastes; Pollutants; Pulp and paper; Waste treatment; Vastes; Water, Water pollution
		11. A 1 2 3 4	Information This database is under modification. Periodic publications listed in 7 will be available from the responsible organization when the system is fully developed. One publication has been produced for the industry: Status Report on Abatement of Water Pollution from the Canadian Pulp and Paper Industry (1982). The above report is available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.

	Quality of Sediments in the St. Lawrence River		Quebec Atlas of Breeding Birds
٤.	Datafile Name(s) Not applicable.	5.	Datafile Name(s) Not applicable,
2a.	Summary Description of Contents Data from physio-chemical studies of sediments and studies of sediment grain characteristics.	2a.	Summary Description of Contents Maps of the distribution of birds breeding in Guebec from 1984 to 1989 is based on field data.
26.	Purpose of the Database Monitoring of sediment quality in the St Lawrence River and the Saguenay River; Reference.	2b.	Purpose of the Database To produce accurate and up-to-date maps of the distribution of breeding birds in Quebec to establish baseline conditions against which future observations can be compared and trends assessed
ła.	Name and Address of Responsible Organization St. Lawrence Centre, Environmental Technologies Development Directorate, Conservation and Protection, Environment Canada, Suite 400, 105 McGill Road, Montreal, Quebec, H2Y 2E7.	3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Quebec Region, Environment Canada, 1141 Route de Ufritise P.O. Box 10100 Ste-Eov Quebec G1V 445
3b. 3c.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mrs. Lucie Olivier (514) 496-2272. FAX: (514) 283-9451 Access Mechanisms Through the organization responsible.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. J. Gauthier (418) 648-7225 FAX (418) 649-6475 Mr. Yves Aubry (418) 648-7225 FAX (418) 649-6475
la.	Variables Included (summarized if extensive)	3c.	Access Mechanisms Through the responsible organization
	 grain size metals organic compounds pesticides 	4a.	Variables Included (summarized if extensive) bird species nesting (possible, probable, confirmed)
ιь.	Geographic Coverage St. Lawrence River and the Saguenay River.		IDEATION date other variables recorded
Ic.	Data Acquisition Method(s) Research.	4b.	Geographic Coverage Southern Quebec.
ld.	Geographic Unit(s) of Measurement Point data	4c.	Detri Acquisition Method(s) Field data were collected by CWS staff and a region-wide
1-0. 4-f	Undete Frequency Veedy	Ad	network of volunteers over a six year period
ig.	Database Hardware/Software Configuration PC compatible microcomputer, FOXBASE		covering the region.
	III software_	40	Period of Record 1984 - 1989
In.	Output format(s) (tables, maps, etc.) Tables.	41	Update Frequency No immediate update is planned.
5.	Price information None	49.	with ASCII file, VAX-VMS with ORACLE software.
7.	Corresponding Printed Sources None	4h	Output Format(s) (tables, maps, etc.) Maps.
9.	Languages French	5.	Restrictions and Conditions None.
Э.	User Alde Available Users guide.	6.	Price Information Charge to cost/recovery.
0.	Keywords Metals, Organic pollutants; Pesticides; Quebec; Sediments; St. Lawrence River; Water quality	1.	com-sponding Primed Sources A book with distribution maps and accompanying text is in preparation.
E1.	Additional information None	8.	Languages The database is in French.
	and the second sec	9.	User Aids Available Set of instructions under preparation
		10	Additional Information Nane
	The second s	11	Accentiones Information None
	The second second second second second		

	Quebec Seabird Registry	Register of Underground Storage Tanks and Systems on Federal Property (RUST)
1.	Datafile Name(s) BIOM (Banque Informatisé des Oiseaux Marins).	1 Datafile Name(s) Not applicable
2a.	Summary Description of Contents Colony size, location and information sources for 16 species of seabirds that breed in the St. Lawrence system: sector between Montreal and Quebec, estuary of the St. Lawrence River, Gulf of St. Lawrence (North Shore, Gaspé Peninsula, Anticosti Island and Magdelen Island).	 2a. Summary Description of Contents Data on characteristics of underground tanks (including contents) on federal property. 2b. Purpose of the Database To describe underground storage tanks on federal property for
2b.	Purpose of the Database To monitor population status of seabirds breeding in the St. Lawrence system.	effective management (maintenance, inspection, upgrading). 3a. Neme and Address of Responsible Organization Federal Activities Division, Industria
3a.	Name and Address of Responsible Organization Canadian Wildlife Service, Conservation and Protection, Quebec Region, Environment Canada, 8th Floor, 1141 Route	Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3b.	de l'Eglise, P.O. Box 10100, Ste-Foy, Quebec. G1V 4H5 Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gilles Chapdelaine (418) 649-6127 FAX: (418) 649-6475 Mr. Pierre Brousseau (418) 649-6129 FAX: (418) 649-6475	 Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Brian Melbourne (819) 953-1697 FAX: (819) 994-7782 Mr. Kelly Karr, Oil Gas and Energy Division, Industrial Programs Branch, Environmenta Protection, Conservation and Protection, Environment Canada, Ottawa, Ontario, K1A 0H3 (819) 953-1125.
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) species (16, larids, alcids, cormorants, gannets, terns, Eider ducks) number of pairs/individuals colony name inventory method location, date location of survey information existence of additional information	4a Variables Included (summarized if extensive) type of facility, ownership location, site sensitivity tank characteristics capacity, contents, volume year of installation construction material internal and external protection piping, pumping system
4b.	Geographic Coverage The St. Lawrence system: sector between Montreal and Quebec, estuary of the St. Lawrence River, Gulf of St. Lawrence (North Shore, Gaspé Peninsula, Anticosti Island and Magdelen Island), Quebec north shore of the St. Lawrence River.	Leak record, monitoring program Geographic Coverage National, all federat property.
4c.	Data Acquisition Method(s) Field surveys are conducted tentatively every five years and other wildlife organizations with experience in biological surveys may contribute to the detabative	4c Data Acquisition Method(s) Questionnaire/registration forms.
Ad	Generative Unite) of Measurement Individual colonies by latitude and longitude	4d. Ceographic official of measurement individual tama.
40	Period of Record 1925 - present	4f Undate Frequency Regular schedule to be determined
46	Undete Fremiency Every 5 years	4. Database Hardware/Software Configuration Microcomputer with DRASE II a software
49	Database Hardware/Software Configuration IBM compatible microcomputer with DBASE	4h. Output Format(s) (tables, maps, etc.) Tables.
	IV.	5. Restrictions and Conditions None.
4h	Output Format(s) (tables, maps, etc.) Tables.	6. Price Information No charge.
5	Restrictions and Conditions Contact responsible organization.	7. Corresponding Printed Sources An annual report is planned.
6. 7	Price Information No charge.	8. Languages The report will be available in English and French.
1	Naturalist. Other papers cover individual species.	 User Aids Available Register of underground storage tank systems on federal property software package user's guide, 1988 (under review).
8	Languages Database is in French	10 Keywords Contamination, Federal properties; Leaks; Oil spills; Storage tanks; Spills
9	User Alds Available None.	Underground storage.
10	 Keywords Birds; Quebec; Seabirds; St. Lawrence River; Wildlife. Additional Information Plans for creating a national database on seabirds that would include observations for all regions are being discussed. Data on seabird populations along the Hudson Bay and Ungava Bay coasts are also available, but they are in a paper file and not included in this database. 	 Additional Information The annual report and the report in 9 are available from the responsible organization The database is composed of separate databases held and maintained by each federal department with underground storage tanks. All have the same software configuration. The majority of tanks are on property of the departments of Transport National Defence, and Public Works.

	Residual Discharge Inventory System (RDIS)		Restricted Information System for Chemicals Ontario Region PCB Inventory
1.	Datafite Name(s) Not applicable	1. 1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A national database of emission estimates for common pollutants from anthropogenic sources based on plant permit data (provincial), transportation and fuel consumption data (Statistics Canada), production data, actual stack monitoring and published emission rates.	2a. s ii 2b. l	Summary Description of Contents An inventory of PCB containing equipment in-use or In storage in companies in Ontario. Purpose of the Database To support enforcement of PCB regulations and the PCB
2b.	Purpose of the Database To monitor emission rates of air contaminants for atmospheric modelling and policy making.	9a. I	naseout strategy. Name and Address of Responsible Organization Commercial Chemicals Section,
3a.	Name and Address of Responsible Organization Pollution Data Analysis Division, Environmental Protection, Conservation and Protection, Environment Canada, 18th Floor, 351 St. Joseph Blvd., Hull, Quebec, K1A 0H3.	3b. (Environmental Protection. Conservation and Protection, Ontario Region, Environment Car ada, 7th Floor, 25 St. Clair Averue East, Toronto, Ontario, M4T 1M2. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Marc Deslauriers (819) 994-3069 FAX: (819) 953-9542	3c. /	Mr. Mark Vanderlaan (416) 973-1080 FAX: (416) 973-6985
3с.	Access Mechanisms Through the responsible organization	4a. V	arables included (summarized if extensive)
4a.	Variables Included (summarized if extensive) - sulphur dioxide - nitrogen oxides - carbon monoxide - total hydrocarbons - particulate matter - reactive volatile organic compounds	4b. (company (name, address, phorie number, industrial sector, contact, Ontario Ministry of Environment region) type of equipment (transformer, capacitor, etc.) PCB type (askarel, pyranol, inerteen, etc.) and amount location of PCBs within company use (in use, in storage) Gec.graphic Coverage Ontario.
db	Congregitie Cougerers. Conside	4c 🕻	Data Acquisition Method(s) Information from companies provided pursuant to legislation
46. 4c.	Geographic Coverage Canada Data Acquisition Method(s) Data are calculated based on plant permit data (provincial), Instead data from Statistics Canada and fuel consumption data from Statistics Canada and fuel consumption data from Statistics Canada	S	on the Canadian Environmental Protection Act obtained through inspections and voluntary ub missions.
	other sources, actual stack monitoring, and published emission rates	40 G	eriod of Record 1979 - present
4d.	Geographic Unit(s) of Measurement 127 x 127 km grids for area type sources and latitude and longitude for point source emissions	4t. U	Jpcate Frequency Irregular.
4e.	Period of Record 1985 - present.	4g. D s	Database Hardware/Software Configuration COMPAQ 386 SX with DBASE III + off-vare.
4r.	Database Hardware/Software Configuration MICROVAX 3100 with DRASE IV and	4h. C	Dutout Format(s) (tables, maps, etc.) Tables.
	RAMIS data management system.	5. A	testrictions and Conditions. Contact organization responsible for release of data - some nay be protected.
\$h.	Output Format(s) (tables, maps, etc.) Tables available; maps may be produced in the future.	6. P	Price Information No charge.
5.	Restrictions and Conditions Some plant specific data may be restricted.	7. C	concesponding Printed Sources Summary data from Ontario are published as part of
6.	Price Information No charge.	8 1	en managen National conside are bibliographic database in in Castick
7.	Corresponding Printed Sources Emissions and Trends of Common Air Contaminants in Canada, 1980, 1985.	9. V	laer Aids Available None.
B.	Languages Reports are bilingual.	10. K	ceywords Contaminants; Hazardous materials; Ontario; PCBs; Pollution control;
9	User Aids Available None.	P	olychlonnated biphenyls; Storage; Wastes; Waste inventory.
10	Keywords Air pollution; Emissions; Industry; Motor vehicles; Pollutants, Pollution.	11. A 1	Additional Information The database is slated for redevelopment when it will become part of the national PCB database currently under development (see Canadian Council of Ministers of the
11.	Additional Information 1. This database provides the raw data that are summarized in the Environmental Protection database Compendium (COMP). 2. In the future greenhouse gases and taxics will be included.	2.	Environment PCB Inventory). Reports are available from EP Publications, Conservation and Protection, Environment Cariada, 12th Floor, 351 St. Joseph Blvd., Hull, Quebec K1A 0H3.

	Restricted Information System for Chemicals Quebec Region PCB Inventory (RISC - QRPCB)	Seabird Colony Catalogue
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents An inventory of PCB containing equipment in use or in storage by companies in Quebec.	2a. Summary Description of Contents An island by island record of populations of colonial seabirds along the west coast of British Columbia.
2b.	Purpose of the Database To support enforcement of PCB regulations and the PCB phaseout strategy.	2b. Purpose of the Database To provide baseline data on western colonial seabirds for planning purposes.
За.	Name and Address of Responsible Organization Environmental Protection, Quebec Region, Conservation and Protection, Environment Canada, 1179 de Bleury Street, 2nd	3a. Name and Address of Responsible Organization Canadian Wildlife Service, Environment Canada, Box 340, Delta, British Columbia, V4K 3Y3.
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bruno Lafortune. (514) 283-2347 FAX: (514) 283-4423	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Kaiser (604) 946-8546 FAX: (604) 946-7022
20	Assess Hashaniame Through the responsible organization	3c. Access Mechanisms Through the responsible organization.
30.	ACCESS INCLINERATING THOUGH THE TESPOISION OF GRANZATION	4a. Variables Included (summarized if extensive)
4a.	Variables Included (summarized if extensive)	- seabird species (rhinoceros auklet, Cassin's auklet, ancient murelet, tufted puffin,
	- company (code, location, industrial sector)	double-crested and pelagic cormorants, Leach's storm-petrel, fork-tailed storm-petrel,
	- type of equipment (transformer, capacitor, etc.)	glaucous-winged gull}
	- PCB type (askare), pyranol, ineneen) and amount	 habitat (ground cover, island size)
	- use (in use, in storage)	- colony location, landing areas, potential campsites on islands
44	Commentin Countries Outline	the Geographic Coverage More than 100 islands along the coast of British Columbia
40.	Geographic coverage quecec.	HD. Creverage we very rage more than the founds along the sease of an and constraints.
4c.	Data Acquisition Method(s) Information from companies provided pursuant to legislation on the Canadian Environmental Protection Act obtained through inspections and voluntary	4c. Data Acquisition Method(s) Field surveys of Islands.
	submissions.	40. Geographic Unit(s) of Measurement Individual Islands.
4d.	Geographic Unit(s) of Measurement Individual companies.	4e. Period of Record Data collected 1980-1988.
4e.	Period of Record 1980 - present.	4t. Update Prequency Irregular for portions of the coast, no update for the entire area is planned.
41.	Update Frequency Irregular.	4n Database Hardware/Software Configuration Microcomputer using WORDSTAR.
4g.	Database Hardware/Software Configuration HP minicomputer with IMAGE 1000 and RTE - IVB (will be changing) operating system software.	4h. Output Format(s) (tables, maps, etc.) Tables.
4h.	Output Format(s) (tables, maps, etc.) Tables.	5. Restrictions and Conditions None.
5.	Restrictions and Conditions Contact agency responsible for release of data - possibly protected.	6. Price Information No charge for reasonably sized requests.
6	Price Information No charge	 Corresponding Printed Sources No periodic reports based on the database are planned. Seven technical reports are planned, two of which have been prepared (see 11).
7.	Corresponding Printed Sources Summary data from Quebec were published as part of	8. Languages English publications with French abstracts.
	two national summaries (see 11) in 1985, 1986. There are no plans for additional publications	9. User Aids Available None.
8.	Languages National reports are bilingual; database is in French.	10. Keywords Biota; Bird colonies; Birds; British Columbia; Pacific; Seabirds; Wildlife.
9.	User Aids Available Nane.	11 Additional Information
10.	Keywords Contaminants; Hazardous materials; PCBs; Pollution control; Polychlorinated biphenyls, Quebec; Storage.	 Reports produced: Rodway, M., M. Lemon and G. Kaiser (1988). British Columbia Seabird Colony Inventory, Report 1, East Coast Moresby Island. CWS Technical Publication No. 5. Rodway, M. (1998). British Columbia Seabird Colony Inventory, Census of
11.	 Additional Information This database is slated for redevelopment. It will be on a microcomputer, probably with DBASE IV software and maintained in the regional office. Updates will periodically be sent to headquarters in Ottawa. As well it will form part of a national PCB database currently under development (see Canadian Council of Resource and Environment Ministers - National PCB Inventory Database. Most recent annual report: National Inventory of Concentrated PCB (Askarel) Fluids (1985 Summary Update) 1986. Reports are available from EP Publications, Conservation and Protection, Environment Canada, 12th Floor, Place Vincent Massey, Ottawa, Ontario K1A 0H3. 	Glaucus-winged Gulls, Pelagic Cormonants, Black Oxyster-catchers and Pigeon Guillemots in the Queen Charlotte Islands, 1986. CWS Technical Report No. 43. 2. Reports are available from the responsible agency.

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	Sediment Database Records	1	SHELLDAT, GASPDAT, QUIKMAP
1	Datafile Name(s) Not applicable	1.	Datafile Name(s) Numerous files.
2a	Summary Description of Contents Database contains physical, metal and organic data for sediment of nearshore zones in the Beaufort Sea.	2a.	Summary Description of Contents Shellfish growing water bacterial quality survey recults, pollution sources and descriptions (text).
2b.	Purpose of the Database To monitor the effects of the oil and gas industry on the nearshore marine environment and provide information for environmental assessments.	2 b.	Purpose of the Database To monitor bacteriological quality of shellfish growing waters in B.C., to protect human health, and to identify pollution sources to shellfish growing area
3a.	Name and Address of Responsible Organization Environmental Protection, Conservation and Protection, Western and Northern Region, Environment Canada, Box 370, Yellowknife, Northwest Territories, X1A 2N3.	3a.	Nume and Address of Responsible Organization Shellfish and Aquaculture, Conservation and Protection, Pacific and Yukon Region, Environment Canada, 224 West Esplanade, North Vancouver, British Columbia, V7M 3H7.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. André d'Entremont (403) 873-3456 FAX: (403) 873-8185	3b.	Cuntact Person(s), Address (if different from 3a), Telephone and FAX Number(s) M. Hal Nelson (604) 666-2736 FAX: (604) 666-6858
3c.	Access Mechanisms Through the responsible organization.	Зс.	A::cess Mechanisms Through the responsible organization.
4a	Variables Included (summarized if extensive) trace metals (mercury, lead, cadmium, zinc, arsenic, iron, nickel) total organic carbon sediment particle size hydrocarbons (n-alkanes, 16 polyaromatic hydrocarbons)	4a.	Viriables Included (summarized if extensive) - most probable number (MPN) of fecal coliforms/100 ml at each station - ancillary data (rainfall, Ireshwater input and sources, pollution sources, etc.) - salinity
4b.	Geographic Coverage Tuktoyaktuk Harbour, Hutchison Bay, McKinley Bay, and Southern Beaufort Sea in the Northwest Territories.	4b.	temperature, dissolved oxygen and turbidity Geographic Coverage All commercial mollusc and shellfish harvest areas on the west crast of Canada and some other areas
4c.	Data Acquisition Method(s) Field surveys using bottom grab and core sampling	4c.	Data Acquisition Method(s) Field surveys.
4d.	Geographic Unit(s) of Measurement Individual sampling stations recorded by latitude and longitude.	4d	Geographic Unit(s) of Measurement Latitude and longitude
40	Period of Record 1975 - present	4e.	Pariod of Record 1971 - present.
41	Update Frequency No updates planned.	4f	Update Frequency Updated continuously.
4g.	Database Hardware/Software Configuration Microcomputer with TURBOPASCAL and DBASE III software.	4 g.	Database Hardware/Software Configuration COMPAQ, DATAPOINT computer. TOSHIBA, custom software
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, DBASE III files.	4h.	Output Format(s) (tables, maps, etc.) Hardcopy reports, text and tables, various report formats, ASCII hiles
5.	Restrictions and Conditions None	5.	Restrictions and Conditions Some restrictions may apply depending on nature of the
6.	Price Information No charge		request
7.	Corresponding Printed Sources 1. Can Test Ltd. (1985) Chemical Analysis of Samples Collected for Beaulort Sea Namples Modifaring Program, 1984, Beaut prepared for EPS, NWT District Office	6.	Price Information No charge for data, a cost will apply when digital maps become available
	 Yunker, M.B. (1986). Final Report. 1982-1983 Beaufort Sea Shorebase Monitoring Program. Statistical Analysis and Recommendations for Future Programs. Report prepared for Indian and Northern Atfairs. Canada. Water Resources Division. 	7.	Corresponding Printed Sources Contaminated Area Reports for some surveys in recent years, file reports.
	Yellowknde, N.W.T	8.	Languages English.
8	Languages English	9.	L ser Alds Available Not applicable.
9	User Alds Available None.	10.	keywords British Columbia; Lead; Marine; Microbiology; Molluscs; Monitoring; Pacific;
10	Keywords Arctic; Dredging; Environmental assessment; Marine; Ocean dumping; Sediments; Water pollution.	11.	Additional information None
11	Additional Information None.		

	Snow and Ice (GLACIERS)		Spring Breeding Waterfowl Survey - Eastern Canada
1	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Information on Canada's approximately 100,000 glaciers in the form of an internationally standardized data set, maps, photographs, text and bibliographies.	2a.	Summary Description of Contents Population data for waterfowl from eastern Canada, Maine, Michigan and Ohio.
26.	Purpose of the Database To provide information about Canada's glaciers and to document, for one period of time the state of Canada's frozen water resources.	2b.	Purpose of the Database To monitor waterfowl populations and evaluate trends in Eastern Canada.
За.	Name and Address of Responsible Organization National Hydrology Research Institute, Environment Canada, 11 Innovation Blvd., Saskatoon, Saskatchewan, S7N 3H5.	3a.	Name and Address of Responsible Organization Migratory Birds and Wildlife Conservation Branch, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 17th Floor, 35t St. Joseph Blvd., Hull, Quebec, K1A 0H3.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. C. Simon L. Ommanney (306) 975-5751 FAX: (306) 975-5143	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Kathryn Dickson (819) 953-1415 FAX: (819) 953-6283
3c.	Access Mechanisms Through the responsible organization. Database is only partly machine readable and is not on-line.	3c.	Access Mechanisms Through the responsible agency.
4a.	Variables Measured (summarized if extensive) region and basin identification glacier name, number and UTM coordinates 	4a.	Variables Included (summarized if extensive) - waterfowl species - bird sex - number of birds
	 orientation, length and width elevations - highest, lowest, snow line 	4b.	Geographic Coverage Atlantic Provinces, Ontario, Quebec, Maine, Michigan, Ohio.
	orate of show line mean elevations - accumulation and ablation areas surface areas - total exposed, ablation accumulation area ratio	40.	Data Acquisition Method(s) Aerial and possibly ground surveys of fixed blocks randomly distributed across the region.
	 mean (estimated) depth, volume (estimated) classification and description 	4d.	Geographic Unit(s) of Measurement 10 x 10 km or 5 x 5 km blocks.
41.	- area by 100m elevation bands	40.	Period of Record 1990 - present.
46.	Geographic Coverage Canada	41.	Update Frequency Annually.
lc.	Data Acquisition Method(s) Map and airphoto interpretation, literature searches, donation.	4g	Database Hardware/Software Configuration IBM compatible with DBASE IV.
ld.	Geographic Unit(s) of Measurement Geographical and UTM coordinates	4h.	Output Formatia (tables, maps, etc.) Tables.
le.	Period of Record Time series. Basic data set derived from aerial photographs taken from t950-1962. General information extends back to start of glacier records in mid-1880's.	6.	Price Information To be established.
lf.	Update Frequency Not applicable.	7	Corresponding Printed Sources Annual reports on the status of waterfowl in eastern
lg.	Database Hardware/Software Configuration Machine readable files in WORDSTAR and LOTUS run on IBM-AT. Hard copy maps, photos, paper, files, etc.	8	Languages Database is in English and French.
۱h.	Output Format(s) (tables, maps, etc.) Tables, lists, reports, maps.	9.	User Aids Available To be established.
5.	Restrictions and Conditions None	t0.	Keywords Biota; Birds; New Brunswick; Newfoundland; Nova Scotia; Ontario; Prince
6.	Price Information Small requests handled at no charge Larger requests may involve some cost recovery if staff have to be hired to process request.	tt,	Additional Information None.
7.	Corresponding Printed Sources Comprehensive printed sources of data mass balance and glacier fluctuations data available from World Glacier Monitoring Service, Zurich, Switzerland		
3.	Languages English. References may be multilingual		
9.	User Aids Available Glacier Inventory Note series.		
10.	Keywords Alberta; Arctic; British Columbia; Glaciers; Ice; Labrador; Physiography; Snow; Yukon.		
r 1 .	Additional Information The database is a miscellaneous collection of many types and sources of glacier and snow and ice information The critical link is the contact person who can make all the necessary connections. Long-term plans call for the reduction of most of the database to a machine readable form to be accessible, probably on-line, through the National Hydrology Research Institute library.		
	St. Lawrence River Industrial Discharge Management System		Sulphur Content in Liquid Fuels
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1.	Datafile Name(s) Not applicable.	1.	Detafile Name(s) Not applicable.
2a.	Summary Description of Contents Profile of 50 industrial establishments identified in the St. Lawrence Action Plan; data on the quality of industrial effluents, maps of information on the ambient environment.	2a.	Summary Description of Contents A national database providing information on the content of sulphur in liquid fuels (gasoline, Heavy fuel oil, jet fuel, diesel, furnace/stove oil) produced in or imported to Canada.
SP	Purpose of the Database To follow the reduction of toxic industrial discharges as part of the St. Lawrence Action Plan.	2b.	Purpose of the Database To collect information on sulphur content of liquid fuels in order to estimate emissions from fuel consumption.
3a.	Name and Address of Responsible Organization Conservation and Protection, Environment Canada, Room 2881, 5199 Sherbrooke East, Montreal, Quebec, H1T 3X3.	3a.	Nume and Address of Responsible Organization Oil, Gas and Energy Division, Industrial Programs Branch, Environmental Protection, Conservation and Protection, Environment Canada, 13th Floor, 351 St. Joseph Blvd. Hull, Quebec. K1A 0H3
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gaétan Duschesneau (514) 873-9480 FAX: (514) 873-4133	ЗЬ.	Centact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Bemard Madé (819) 953-1135 FAX: (819) 994-7762
3c.	Access Mechaniems Through the responsible organization.	Зс.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - metals - organic compounds - water withdrawals - pollutant loads	4a.	Veriables Included (summarized if extensive) - sulphur concentration (mg/1, annual weighted average) - fuel (gasoline, heavy fuel oil, jet fuel, diesel, furnace/stove oil) - amount of fuel produced/imported
	 physical and chemical data biology 		- producer/importer
	 organic growth substances non-volatile organic substances (bases) non-volatile organic substances (other) 	4b. 4c.	Geographic Coverage National, all provinces and territories. Dirta Acquisition Method(s) Reported annually by fuel producers or importers under the
4b.	Geographic Coverage St. Lawrence River.		Flier Information Regulations (CEFA).
4c	Data Acquisition Method(s) Sampling.	4d.	Geographic Unit(s) of Measurement Individual producers/importers.
4d.	Geographic Unit(s) of Measurement Point data.	40	Period of Record 1978 - present.
4e.	Period of Record Since 1988.	41.	Update Frequency Annually.
4f.	Update Frequency Each year.	49.	Distabase Hardware/Software Configuration Microcomputer with DBASE IV software.
4 a	Database Hardware/Software Configuration Microcomputer (PC), software includes	4h.	O .tiput Format(s) (tables, maps, etc.) Tables.
.9	INGRAPH, FOXBASE and AUTOCAD	5	Restrictions and Conditions The amount of fuel produced/imported is confidential.
4h.	Output Format(a) (tables, maps, etc.) Maps, lists, diagrams, tables (GIS).	6.	Price Information No charge.
5.	Restrictions and Conditions Certain industrial profiling data are confidential (production statistics).	7.	Corresponding Printed Sources A report summarizing 1978 - 1987 data is available Annual reports have been prepared for 1988, 1989, 1990
6.	Price Information None.	8.	Lunguages Reports are in English.
7	Corresponding Printed Sources None	9	U:ser Aids Available None.
8.	Languages French.	10.	Keywords Contaminants; Fuel; Oil; Sulphur.
9.	User Aide Avmilable Users guide.	-11.	Additional Information The reports in 7 are available upon request form the responsible
10.	Keywords Effluents; Industry; Metals; Organic pollutants; Quebec; St. Lawrence River; Water, Water quality.		alioney.
11.	Additional Information None.		

		and the second se
	Surface Water Temperatures of the Great Lakes	Surface Weather Maps - Atmospheric Environment Service
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Each of the six AES regions (see 11) maintains a weather man database
2a.	Summary Description of Contents Grid point temperature data and analysed isothermal maps of temperature fields for the Great Lakes. Grid point surface water temperature data are abstracted from the surface water temperature maps using consistent templates for each waterbody. Digital and paper archives are maintained. Climatological analyses such as whole lake means and grid point normals are also produced.	 Summary Description of Contents Maps of surface weather data (air pressure, a temperature, wind, cloud cover, visibility, frontal systems) collected at six-hour interval every day covering Canada, United States, eastern Pacific and western Atlantic Oceans
26.	Purpose of the Database To compile a surface water temperature database for the Great	2b. Purpose of the Database To provide an historical record of synoptic weather conditions for Canada to answer questions pertaining to insurance, law, etc.
	limnology studies, fisheries resource studies, water resources studies, and recreational boating, swimming and fishing.	3a. Name and Address of Responsible Organization Addresses of regional climate centres (see 11) can be obtained from Atmospheric Environment Service Headquarters Environment Canada, 4905 Dufferin Street, Toronto, Ontario, M3H 5T4.
За.	Name and Address of Responsible Organization Water Resources and Marine Adaptation Division, Atmospheric Environment Service, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) For regional climate centre telephone numbers contact: AES Headquarters (416) 739-4328 FAX: (416) 739-4446
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Paul Louie (416) 739-4351 FAX: (416) 739-4297	3c. Access Mechanisms Through the responsible Regional Climate Centre(s).
3с.	Access Mechanisms Through the responsible organization.	4.a. Variables Included (summarized if extensive)
la.	Variables Included (summarized if extensive) - surface water temperature - date, location	- dew point - air pressure - cloud cover
b.	Geographic Coverage Great Lakes	 visibility wind (speed, direction) frontal exclama
ŀc.	Data Acquisition Method(s) Surface water temperatures of the Great Lakes (excluding Lake Michigan) were initially collected by airborne radiometer surveys from 1966 to 1979. Since 1980, water temperatures have been retrieved from the NOAA TIROS-N satellite using scanning radiometer AVHRR data. Routine analysis of the Lakes Erie, Huron, Ontario and Superior as well as the Bay of Fundy began in 1980; analysis of Lake Michigan began in 1987 while the St. Lawrence Seaway has been monitored on an interenular basis during freeze-un	 4b. Geographic Coverage Canada, most of the United States, eastern Pacific Ocear western Atlantic Ocean. 4c. Data Acquisition Method(s) Data collected every six hours at 00z, 06z, 12z and 18z (z zulu= international time) from monitoring stations across the continent.
d.	Geographic Unit(s) of Measurement Temperature data referenced by latitude and longitude for grid point values but also represented by whole lake means.	Geographic Unit(s) of Measurement Individual monitoring stations. Period of Record Varies among regions.
e.	Period of Record 1966 - 1990.	4f. Update Frequency Map series prepared daily.
E.	Update Frequency Uncertain.	4g. Database Hardware/Software Configuration Paper and microfilm.
g.	Database Hardware/Software Configuration IBM compatible mainframe computer with custom software.	4h. Output Format(s) (tables, maps, etc.) Maps.
h.	Output Format(s) (tables, maps, etc.) Tables, maps.	5. Restrictions and Conditions None.
	Restrictions and Conditions None.	6. Price Information \$1.20/map paper copy, cost recovery for film duplication.
	Price Information There is a charge for reproduction costs.	7. Corresponding Printed Sources None.
	Corresponding Printed Sources A report describing the surface water temperature climatology of the Great Lakes is planned.	 Languages Databases in English for all regions and also in French for some regions. User Aids Available Contact forecast offices of regional centres.
	Languages Database is numbers; the report will be bilingual.	10. Keywords Climate monitoring; Marine; Marine forecasts; Meteorology; Weather; Weather
	User Aids Available Brief documentation is provided for the digital data products.	Iorecasts; Weather maps.
0.	Keywords Aquatic ecosystems; GIS; Great Lakes; Hydrometeorology; Remote sensing; Satellite imagery; Water; Water temperature.	 Additional Information Regional climate centres are located in Vancouver, Edmonton Whitehorse, Wirinipeg, Toronto, Montreal and Halifax.
1	Additional Information None	

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	Threatened and Endangered Species		Vehicle Emission Tests
1	Datafile Name(s) None	t	Dentafile Name(s) Not applicable
2a.	Summary Description of Contents A national database that provides information on distribution, species biology and information sources for 73 threatened and endangered species in Canada, and data on the distribution of agricultural crops.	2a.	Summary Description of Contents Statistics on regulated emissions and specialion of exhaust under a variety of conditions to determine fuel consumption in light duty cars and trucks. Some data on buses, other trucks and ships and alternative fuels.
26.	Purpose of the Database To examine the relationship between the distribution of nationally endangered and threatened species and pesticide use.	25.	Purpose of the Database To provide the basis for environmental decisions related to the use of new control technologies and alternative fuels, regulation development and the audit of new vehicle fleets.
3a.	Name and Address of Responsible Organization Wildlife Toxicology, National Wildlife	0.0	
	Research Centre, Canadian Wildlife Service, Conservation and Protection, Environment Canada, 100 Gamelin Blvd., Hull, Quebec, K1A 0H3.	За	Nume and Address of Responsible Organization Vehicle Emissions Test Lab. Environmental Technology Centre, Conservation and Protection, Environment Canada, River Road, Ottawa, Ontario, K1A 0H3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Karen Lloyd (819) 997-6073 FAX: (819) 953-6612	ЗЬ.	C-intact Person(s), Address (if different from 3a), Telephone and FAX Number(s) M: Fred Hendren (613) 998-9590 FAX: (613) 998-0004
3c.	Access Mechanisms Through the responsible organization.	30	Ascess Machanisms Through the responsible organization
4a.	Variables Included (summarized If extensive)		Access mechanisme mough the responsible organication.
	- species parameters	4a.	Variables included (summarized if extensive)
	 name distribution status 		 test condition (cold weather, parts disabled, etc.) regulated emissions (total hydrocarbons, carbon monoxide, oxides of nitrogen, carbon dioxide)
	 source of information babilitat type 		 speciation of exhaust (volatile organics, aldehydes, ketones, polycyclic aromatic hydrocathons, pitiated compounds, subhur compounds, hydrocae, particulate mass.
	limiting factors		 Vehicle type (car, truck, bus, ship)
	activity during various months		- fuel (e.g. gasoline, diesel, propane, diesel mixes, natural gas)
	 crop data distribution of crops across Canada at the consolidated census subdivision level (from 1986 Census of Agriculture, Statistics Canada) 	4b.	Geographic Coverage Canada.
4b.	Geographic Coverage All nationally threatened and endangered species as determined by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) (see 11)	4c.	Data Acquisition Method(s) Twenty to forty tests per week are performed by the responsible organization
		4d.	Geographic Unit(s) of Measurement Individual test vehicles.
40.	Data Acquisition Method(s) Species data obtained from status reports prepared for COSEWIC, individual researchers or other national databases at the Canadian Museum	40.	Period of Record 1974 - present
	of Nature		
4d.	Geographic Unitial of Measurement Species distribution vary from individual sites to	41.	Update Frequency With each test.
	large ranges. Crop information is at the consolidated census subdivision level.	4 g.	Database Hardware/Software Configuration Data archive on DEC PDP 1124 and PC LAN with FILESAVER. Online access in lab with MICROSOFT EXCELL and IBM DOS
48.	Period of Record 1986 - present	100	based systems.
41.	Update Frequency Formerly annually, no longer updated.	4h.	Cutput Format(s) (tables, maps, etc.) Tables.
4g.	Database Hardware/Software Configuration Microcomputer with SPANS and DBASE III software.	5	Festrictions and Conditions Recent data obtained for regulating the compliance program and data pertaining to inventions are not available.
4h.	Output Format(s) (tables, maps, etc.) Maps, tables	6	Frice Information No charge.
5	Restrictions and Conditions information on the exact locations of threatened and endangered species is restricted.	7	Corresponding Printed Sources Test reports are prepared for short term (e.g. 3-4 months) projects. Most reports are internal.
6	Price Information No charge for reasonably-sized requests.	в	Languages Reports are prepared in the language of the client
7.	Corresponding Printed Sources COSEWIC reports; the database information is more recent for some species.	9	User Aids Available None.
8.	Languages Database is in English.	10.	Keywords Air pollution; Emissions; Fuel; Hydrocarbons; Motor vehicles; Pollution; Pollution control equipment; Vehicles.
9.	User Aids Available None	11.	Additional Information Testing will be expanded to include aircraft
10.	Keywords Biota; Biotic response, Endangered species, GIS; Habitats; Pesticides; Wildlife		
11	Additional Information None.		

	Water Quality Branch	Western and Nerthern Benien (C. S. D) Industrial Compliance
	Adamic Region wap inventory	western and Northern Hegion (C & P) industrial Compliance
1.	Datafile Name(s) Not applicable.	1 Datafile Name(s) Not applicable
2a.	Summary Description of Contents A series of maps showing rose diagrams of major ionic chemistry at surface water sampling sites and GIS generated maps of water quality data (e.g. nitrogen, phosphorus, lead and other metals from industrial waste).	2a Summary Description of Contents Information reported by industry on industrial compliance to national environmental protection regulations
2b.	Purpose of the Database To provide technical information for locating and referencing water quality stations, interpreting water quality data and predicting the occurrence of toxics in surface water and sediments.	2b. Purpose of the Database To store industrial compliance data, reported by industry and to provide access to this information by regional staff. 3a. Name and Address of Responsible Organization Environmental Protection, Compared Responsible Organization Environmental Protection,
3a.	Neme and Address of Responsible Organization Water Quality Branch, Conservation and Protection, Atlantic Region, Environment Canada, P.O. Box 861, Moncton, New Parameters 510, 046	Floor, 4999-NW 98th Avenue, Edmonton, Alberta, T6B 2X3
ah	Brunswick, E.I.L. SND.	35. Contact Person(s), Address (II different from 3a), Telephone and FAX Number(s) Mr. Art Beckett (403) 468-8037 FAX: (403) 495-2615
<i>unu</i> .	Mr. Dave Lockerbie (506) 851-6606 FAX: (506) 851-6608	3c Access Mechanisms Through the contact person.
3c.	Access Mechanisms Through the responsible organization.	4a. Variables Included (summarized if extensive) Location of regulated industries under: Pulp and Paper Regulations; Metal Mining Regulations; Refinery Regulations. All required
44.	 tor surface water: 	physical/chemical and toxicity data.
	 major ions nitrogen 	4b. Geographic Coverage Alberta, Saskatchewan, Manitoba, Northwest Territories.
	 phosphorus lead 	4c. Data Acquisition Method(s) Information reported by industry.
	other metals other data	4d Geographic Unit(s) of Measurement Point source, site specific.
	census data on fertilizer and pesticide use in farmlands point sources of industrial waste	4e Period of Record 1990 - present
4b.	Geographic Coverage Atlantic Provinces.	4f. Update Frequency Irregularly.
4c	Data Acquisition Method(s). Water quality data from field monitoring: other data from	4g. Database Hardware/Software Configuration IBM PC, DBASE III+.
	Land Registry Office, Summerside, PEI.	4h. Output Format(s) (tables, maps, etc.) Tabular report.
4d.	Geographic Unit(s) of Measurement Variable, depending upon data set.	5. Restrictions and Conditions Some information is confidential
4 0 .	Period of Record 1967 - present.	6 Price Information No charge.
41.	Update Frequency As required.	7 Corresponding Printed Sources None.
ŧg.	Database Hardware/Software Configuration IBM PC with SPANS plus paper map files.	8. Languagee English.
4h.	Output Format(a) (tables, maps, etc.) Maps, graphs, tables.	9. User Aids Available None.
5	Restrictions and Conditions None	10. Keywords Alberta; Industry; Manitoba; Mining; Northwest Territories; Pollution control regulations; Pulp and paper; Refineries; Regulatory control; Saskatchewan
6.	Price Information No charge.	
7.	Corresponding Printed Sources An Application of SPANS Technology to Toxic Contaminant Monitoring in the Atlantic Region (1988).	 Additional information This database is under development. As such it is not currently searchable and most aspects remain changeable.
9.	Languages Database is in English; report has French summary.	
9.	User Alds Available None.	
10.	Keywords Atlantic Canada; GIS; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island; Toxics; Water quality.	
11.	 Additional Information A PC-based Geographic Atlas Information Network is being developed, using Quikmap, for searching, statistical summaries, and exporting data to the GIS for further analysis. The raw water quality monitoring data are sent to the National Water Quality Database in Otherway but the GIS interaction information in chicked in the sector. 	

	the second s		
	Western Canada Pelagic Seabird Database		Whooping Crane Migratory Records - Saskatchewan
1.	Datafile Name(e) Not applicable	1.	Distafile Name(s) Not applicable
2a.	Summery Description of Contents Data on the distribution of pelagic seabirds and oceanographic parameters along the west coast of British Columbia.	2a.	Summary Description of Contents Sightings of whooping cranes during spring and fall migration in the Prairie Provinces from 1956 - present.
2b.	Purpose of the Database To establish the distribution of pelagic seabirds along the west coast of British Columbia in order to prioritize areas of importance and minimize the	2b.	Purpose of the Database To provide information about important stopover areas for the endangered whooping crane.
3a.	Name and Address of Responsible Organization Institute of Ocean Sciences, Canadian Wildlife Service, Conservation and Protection, Pacific and Yukon Region, Environment	За.	Name and Address of Responsible Organization Migratory Birds Section, Conservation and Protection, Western and Northern Region, Environment Canada, 115 Penmeter Road, Saskatoon, Saskatchewan, S7N 0X4
3b.	Canada, P.O. Box 6000, Sidney, British Columbia. V8C 482. Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s)	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Nr. Brian Johns (306) 975-4109 FAX (306) 975-4089
	Mr. Kees Vermeer (604) 356-5537 FAX. (604) 356-6530	3c.	Access Mechanisms Through the responsible organization.
3c.	Access Mechanisms Through the responsible organization.	4a.	Variables included (summarized if extensive)
4a.	seabird species, number of birds and food habits		humber or birds (aduits, young) banding code
	- distance from shore		- date
	- water depth, water temperature		- location
	- location of shelfbreak		- butation of stay
	 sammy weather conditions 		consider (c) has serve as services of
		4b.	Geographic Coverage Saskatchewan
4b.	Geographic Coverage West coast of British Columbia.		
4c.	Data Acquisition Method(s) Data acquired through contractors, students, from oceanographic vessels.	4c.	Data Acquisition Method(s) During the spring and fail migration, observers across the province call in their observations on a telephone hotline; the reports are verified by the Canadian Wildlife Service.
4d.	Geographic Unit(s) of Measurement Ten minute observation periods along transects for which latitude and longitude of the start and end points are recorded.	4d.	Ceographic Unit(s) of Measurement Sighting locations referenced by township and runge, latitude and longitude
40.	Period of Record 1982 - present.	40.	Period of Record 1957 - present
4 £.	Update Frequency Gaps in area coverage are closed as funds become available.	41.	Update Frequency Annually
4g.	Database Hardware/Software Configuration Paper file.	49	Eatabase Hardware/Software Configuration Minicomputer with custom software
4h.	Output Format(s) (tables, maps, etc.) Tables, maps.	4h.	Cutput Format(s) (tables, maps, etc.) Tables.
5	Restrictions and Conditions None.	5.	Festrictions and Conditions Access to endangered species data may be restricted.
6	Price information Contact responsible organization.	6.	Frice Information No charge.
7	Corresponding Printed Sources A summary report is being planned. Several publications have been prepared (see 1.1).	7	Corresponding Printed Sources The Canadian Whooping Crane Migration Report (spring): The Canadian Whooping Crane Migration Report (Iall); Preliminary Identification of Whooping Crane Staging Areas in Prairie Canada, Whooping Crane Sightings in the Frairie Provinces 1970 - 1985
0	tans Alde Australia None	8	Lennueree The reports and database are in English
10	Kauwarde Bista-Birte: British Columbia: Pacific Seabirds Wildlife	9	User Aida Available None
10.	Neywords Citra, Citra, Citran Colonizia, Facility Coloniza, Fillena.		
11.	Additional Information t. Four reports have been produced, for example	10.	Expwords Birds; Endangered species; Migratory birds; Saskatchewan; Whooping crane; Wildlife.
	 Vermeer, K., R. Hay and L. Rankin (1987). Pelagic Seabird Populations of Southwestern Vancouver Island. Canadian Technical Report of Hydrology and Ocean Sciences No. 87. Vermeer, K. and L. Rankin (1985). Pelagic Seabird Populations in Dixon Entrance. Canadian Technical Report of Hydrology and Ocean Sciences No. 65. Vermeer, K. and L. Rankin (1984). Pelagic Seabird Population in Hecate Strait and Queen Charlotte Sound Comparison with the West Coast of the Queen Charlotte Islands. Canadian Technical Report of Hydrology and Ocean Sciences No. 52. Vermeer, K., I. Robertson, I.W. Campbell, G. Kaiser and M. Leronn (1983). Distribution and C. Canadian Marine Rirds on the West Coast. 	11.	Additional Information None
	Wildlife Service Report, Vancouver, B.C. 74 p.		
	Provided funding is received to prepare a summary report, the data will be computerized.		

World Ozone Database

- 1. Datafile Name(s) Not applicable.
- 2a. Summary Description of Contents Information on atmospheric ozone concentrations from around the world (troposphere and stratosphere) collected by Environment Canada for the World Meteorological Organization (WMO).
- 2b. Purpose of the Database To support ozone climatology research and to monitor changes in ozone concentrations.
- Name and Address of Responsible Organization World Ozone Data Centre, Atmospheric Environment Centre, Environment Canada, 4905 Dufferin Street, Downsview, Ontario, M3H 5T4.
- 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. L R. Morrison (416) 889-7275 FAX: (416) 739-4281
- 3c. Access Mechanisms Through the responsible organization.

4a. Variables Included (summarized if extensive)

- ozone concentrations
- surface ozone
 total ozone
- · Umkehr observations (vertical observations in the atmosphere)
- · ozone sondes (direct measurements using balloons at various altitudes)
- LIDAR aerosol observations (atmospheric particulate concentration using a ground-based laser)
- 4b. Geographic Coverage Global.
- 4c. Data Acquisition Method(s) Direct measurements using ground-based and airborne instruments.
- 4d. Geographic Unit(s) of Measurement Not applicable.
- 4e. Period of Record 1957 present.
- 4f. Update Frequency As required.
- 4g. Database Hardware/Software Configuration AS9, IBM developed system (mainframe).
- 4h. Output Format(s) (tables, maps, etc.) Numbers and reports (see 7).
- 5. Restrictions and Conditions None.
- 6. Price Information Charge varies, depending on nature of request.
- Corresponding Printed Sources Report published bi-monthly Ozone Data for the World, available from the responsible organization.
- 8. Languages English and French.
- 9. User Aids Available None.
- 10. Keywords Air quality; Climate change; International, Monitoring; Ozone.
- 11. Additional Information None.

FISHERIES AND OCEANS Central and Arctic Region

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
BARROW STRAIT-LANCASTER SOUND ARCTIC MARINE FOOD WEB	H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131	110
CANADIAN ZOOPLANKTON DATABASE	Dr. Kazimirez Patalas	110
DFO CENTRAL AND ARCTIC REGION FISHERY STATISTICS	Mr. Peter Thompson (204) 983-5227 Ms. Laura Anderson (204) 983-5229	111
CONTAMINANTS IN FISH DATABASE	Ms. Marilyn Hendzel (204) 983-5067	112
EXPERIMENTAL LAKES AREA (ELA) NORTHWESTERN ONTARIO ECOSYSTEM DATABASE	Ms. Susan Kasian (204) 983-5221	112
FISH HABITAT DATABASE FOR THE NORTHWEST TERRITORIES	Mr. Bruce Fallis (204) 983-5221	113
FISHERIES AND MARINE MAMMAL RESOURCE INVENTORY AND CRITICAL HABITAT DATABASE	Mr. Dennis Wright (204) 983-5204 Mr. Larry DeMarch (204) 983-5186	113
LONG RANGE TRANSPORT OF ATMOSPHERIC POLLUTANTS - ORGANICS	Dr. Lyle Lockhart (204) 983-7113	114
MAYFLIES, STONEFLIES AND CADDISFLIES OF MANITOBA	Dr. John Flannagan (204) 983-0864	114
NORTHWESTERN ONTARIO LAKE SIZE SERIES WATER DATABASE	Dr. Everett Fee (204) 983-5172	115
SAQVAQJUAC FIELD STATION ARCTIC ECOSYSTEM DATABASE	H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131	115
STABLE ISOTOPE DATA	Dr. Raymond H. Hesslein (204) 983-5251	116

	Barrow Strait-Lancaster Sound Arctic Marine Food Web Database	Canadian Zooplankton Database
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents A multidisciplinary collection of databases which include biological, chemical and physical information about the Arctic marine	 Summary Description of Contents A national database on the distribution and abundance of zooplankton and water chemistry data for Canadian lakes.
2b.	Purpose of the Database The databases support the concepts of energy flow and teaching and the support of the parallel Antic parallel Antic parallel and work	2b. Purpose of the Database To collect zooplankton data useful in predicting the effects of climate change.
За.	Name and Address of Responsible Organization Fish Habitat and Research Division, Biological Sciences Directorate, Central and Arctic Region, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6	3a. Name and Address of Responsible Organization Biological Sciences Directorate, Freshwater Institute, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) H.E. Welch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Kazimirez Patalas
	FAX: (204) 984-2404	3c. Access Mechanisms Through the responsible organization.
3c.	Access Mechanisms Through the responsible organization.	4a. Variables Included (summarized if extensive) - climate (e.g. mean July air temperature)
48.	variables included (summarized if extensive) water: CTD profiles, nutrients, chemistry and chlorophyll phytoplankton production ice algae production ice-associated amphipod composition and abundance	 water temperature water chemistry (total dissolved solids, calcium, potassium, sodium, iron, etc.) planktonic crustaceans (Cyclopidae, Calanoidae, Cladocera) length of open water season growing season
	 zcoplankton composition and abundance zcobenthos composition and abundance seabird stomach sample analysis 	4b. Geographic Coverage More than 1,000 lakes within 45°-80° N latitude and 40°- 140° W longitude.
4b.	 ringed and bearded seal, walrus, narwhal and beluga stomach sample analysis Geographic Ceverage Barrow Strait and western Lancaster Sound. 	 Data Acquisition Method(a) Mid-summer plankton sampling (900 lakes); data from Interature (100 lakes).
4c.	Data Acquisition Method(s) Small scale and large scale transects by vessel or snowmobile. Nutnents collected weekly at a regular sampling location 5 km from Resolute Bay field camp.	 4d. Geographic Unit(s) of Measurement Lakes referenced by latitude, longitude. 4e. Period of Record 1961 - 1987.
4d.	Geographic Unit(s) of Measurement Various.	4f. Update Frequency As samples analyzed.
46.	Period of Record Varies by discipline, overall 1984-1990, ongoing.	4g. Database Hardware/Software Configuration (BM compatible microcomputer with
4f.	Update Frequency Yearly.	the Output Example (tables mans atr.) Tables
4g.	Database Hardware/Software Configuration Varies by discipline: ASCII files on VAX; LOTUS spreadsheet on IBM PC; DBASE III+ on IBM PC.	 Restrictions and Conditions The whole dataset will not be released until it is reviewed
4h.	Output Format(s) (tables, maps, etc.) Publications with text, tables, graphs and maps.	and vertried, induites concerning the availability or timited subsets should be addressed to the contact person.
5.	Restrictions and Conditions At discretion of the Section Scientist.	6. Price Information No charge.
6.	Price Information No charge.	7. Corresponding Printed Sources
7.	Corresponding Printed Sources 6 primary publications, 1 data report and 4 theses.	Most recent article: Diversity of the Zooplankton Communities in Canadian Lakes as a Function of Climate Proceedings of the International Association of Limpdon
8.	Languages The database is in English. Publications in English with abstracts translated into French.	Congress (1989).
9.	User Aids Available None.	8 Languages The database and papers are in English.
10.	Kaywords Algae; Amphipods; Aquatic ecosystems; Arctic; Biota; Biotic response; Energy flow; Ice; Mammals; Marine; Phytoplankton; Plankton; Zooplankton.	 User Alds Available None. Keywords Aquatic ecosystems; Biota; Biotic response; Freshwater; Plankton Zooplankton
11.	Additional Information None.	 Additional Information The database and samples are being transferred to the Canadian Museum of Nature in Ottawa. A book on the zoogeography of zooplankton in Canadian lakes is in preparation.
		 A book on the zoogeography of zooplankton in Canadian lakes is in prep

DFO Central and Arctic Region Fishery Statistics

- Datafile Name(s) Freshwater Fish Marketing Corporation (FFMC) and Department of Fisheries and Oceans (DFO) Database, DFO Ontario Database, and DFO Northwest Territories Database.
- 2a. Summary Description of Contents FFMC/DFO Database commercial fish harvest data for transactions between commercial fishermen and the FFMC, a federal crown corporation formed to be the sole buyer and seller of fish intended for export from the Northwest Territories, the provinces of Alberta, Saskatchewan, and Mantoba, and a designated region of northwestern Ontario DFO Ontario Database. commercial fish harvest data (major lakes only). DFO Northwest Territories (NWT) Database. commercial fish harvest data, manne mammal harvest statistics, recreational harvests (limited data), commercial and recreational licence sales.
- 2b. Purpose of the Database Provide data for DFO Central and Arctic Region's fisheries and habitat management program.
- Name and Address of Responsible Organization Program Coordination and Economics Branch, Department of Fisheries and Oceans, Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Thompson (204) 983-5227 Ms. Laura Anderson (204) 983-5229
- 3c. Access Mechanisms Through the responsible organization.

4a. Variables included (summarized if extensive)

- FFMC/DFO Database location (lat/long, lake name); species; quantity; landed value DFO Ontario Database (major lakes): location (name); species; quantity; landed value DFO NWT Database
- commercial and exploratory fisheries: location (lake name); species; quantity; landed value
- recreational fishenes (Great Bear Lake and Blachford Lake): species; quantity
- marine mammals: species; community; quantity
- licences (commercial): licensee (address, name); intended fishing area; intended species
- licences (recreational): licensee (name, residence), type of licence (resident, non-resident)

4b. Geographic Coverage

FFMC/DFO Database: NWT, Alberta, Manitoba, Saskatchewan, and Ontario (only in a portion of northwestern Ontario) DFO Ontario Database: Province of Ontario

DFO NWT Database: Northwest Territories

- 4c. Data Acquisition Method(s) FFMC/DFO Database commercial fisheries data recorded from FFMC sales slips DFO Ontario Database summary records from Province of Ontario. DFO NWT Database commercial fisheries data from NWT trade records, fish cooperatives or FFMC records; marine mammal data from personal communication with harvesters, Government of Northwest Territories wildlife officers and for some communication to Row Thereational data from angler diary program; commercial licences from DFO Area records, and recreational licences from GNWT records of vendor sales.
- 4d. Geographic Unit(s) of Measurement FFMC/DFO Database Waterbody (latitude, longitude, name) DFO Ontario Database. Waterbody (name) DFD NWT Database: Waterbody (latitude, longitude, name) for commercial fishery, community for marine mammal harvest.
- Period of Record FFMC/DFO Database: 1970 to present. DFO Ontario Database: 1988 to present. DFO NWT Database: 1945 to present.
- Update Frequency FFMC/DFO Database: Semi-annual. DFO Ontario Database: Annual DFO NWT Database: Annual.
- 4g. Detabase Hardware/Software Configuration FFMC/DFO Database: VAX computer with custom software, also paper files. DFO Ontario Database: VAX computer with SAS/2020 software, also paper files. DFO NWT Database: VAX computer with SAS/2020 software, also paper files.
- 4h. Output Format(s) (tables, maps, etc.) For all systems, tables.
- 5. Restrictions and Conditions For all systems, information on individuals is restricted.
- Price Information FFMC/DFO Database. incremental costs for computer runs for data; no charges for other requests.

Corresponding Printed Sources

FFMC/DFO Database. Annual Summary of Fish Harvesting Activities, Western Canadian Fisheries 1988-89, Volume 7, Freshwater Institute, Central and Arctic Region, Department of Fisheries and Oceans, Winnipeg, Manitoba. Canadian Fisheries Annual Statistical Review 1985, Volume 18 Economic Analysis and Statistics Division, Economic and Commercial Analysis Directorate, Department of Fisheries and Oceans, Ottawa, Ontano DFO Ontario Database. Annual Summary of Fish Harvesting Activities, Central and Arctic Region 1988. Freshwater Institute, Central and Arctic Region, Department of Fisheries and Oceans, Winnipeg, Manitoba.

DFO NWT Database: Strong, J.T. 1989. "Reported Harvest of Narwhal, Beluga, and Walrus in the Northwest Territories 1948-1987". Canadian Data Report of Fisheries and Aquatic Sciences, 734. Yaremchuck, G.C.B. et al. 1989. "Commercial Harvest of Major Fish Syscies from the Northwest Territories 1945-1987". Canadian Data Report of Fisheries and Aquatic Sciences, 751. Sport Fishing in the Northwest Territories, 1985. Communications Directorate, Department of Fisheries and Oceans, Ottawa, Ontario. Northwist Territories Sport Fishing Licence Sales 1988-1989. Department of Fisheries and Oceans, Central and Arctic Region, Winnipeg, Manitoba.

Languaiges Published reports are in English and French; some earlier reports are in English with French abstracts.

User Aids Available None.

8

 Keywords Alberta; Aquatic ecosystems; Arctic; Biota; Commercial lishing; Fish; Fisheries; Mammuls; Manitoba; Marine mammals; Northwest Territories; Ontario; Saskatchewan; Sport fishing

11. Additicnal Information

The information collected by DFO varies across the Provinces (Alberta, Saskatchewan, Manitoba, and Ontario) and the Territories (Northwest and Yukon (North Slope)) which comprise the Central and Arctic Region

DFO's information requirements are greatest for the Northwest Territories where DFO has ongoing, direct fishery management responsibilities and for the Great Lakes where DFO meets international obligations for fishery management.

Day-to-day fishery management has been delegated to the provinces making DFO's infurmation requirements are more general (although recent legal decisions suggest there will be a greater role for DFO in habitat management). Provincial fishery management agencies maintain files, generally computerized, with information pertinent to their direct management activity (e.g., commercial licensing systems).

As part of the federal government's commitment to the political and economic evolution of the North, DFO and the Government of the Northwest Territories are continuing negotiations on the delegation of province-like fishery management responsibilities for the NWT freshwater fishery (but not the anadramous and marine fishery).

2 In addition to the reports in 7, DEO publishes reports which address harvesting specific regional fisheries e.g., "Arctic Char Commercial Fisheries of the NWT". *Canadian Data Report on Fishery and Aquatic Sciences, 681*, "Great Slave Lake Commercial Fishery". *Canadian Data Report on Fishery and Aquatic Sciences, 641*, and "Great Bear Lake Lodge-access Sport Fishery". *Canadian Data Report on Fishery and Aquatic Sciences, 710*.

Additional information can be obtained from items such as Marshall and Layton's "An Incex to the Publications of the Staff of the Central and Arctic Region, Department of Fisheries and Oceans, 1980-81". *Canadian Data Report on Fishery and Aquatic Sciences*, 1273.

 DFD Central and Arctic Region is in the process of developing an improved data handing storage and analysis system to improve information exchange between the NV/T Area offices and Regional headquarters.

	Contaminants in Fish Database	Experimental Lakes Area (ELA) Northwestern Ontario Ecosystem Database
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Pesticide and heavy metal concentrations in commercial fish species in the Great Lakes and other lakes in Canada.	2a Summary Description of Contents A multidisciplinary collection of databases includes biological, chemical, physical, hydrological and meteorological information about pristing and manufated lakes, streams, and watersheds in the area
2b.	Purpose of the Database To assess commercial fish contamination for the enforcement of safety guidelines set by Health and Welfare Canada.	2b. Putpose of the Database The databases support the whole-lake ecosystem research conducted at the ELA.
3a.	Name and Address of Responsible Organization Inspection Services Branch, Central and Arctic Region, Department of Fisheries and Oceans, Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.	3a. Name and Address of Responsible Organization Fish Habitat Research Divisio Biological Sciences Directorate, Freshwater Institute, Department of Fisheries and Ocean Winnipeg, Mantoba, R37 2N6.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Marilyn Hendzel (204) 983-5067	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Susan Kasian (204) 983-5221
3c.	Access Mechanisms Through the responsible organization.	To Access Mechanisms Through the memorship organization
4a.	Variables Included (summarized if extensive)	Sc. Accessa merchanisaria innugnine responsione organization.
	 risk classification of lake (1-4) fish species (walleye, northem pike, lake trout, smelt, yellow perch, herring, sunfishes, catfish, etc.) fish (weight, length) contaminants (mercury; PCB's; pesticides - dieldrin, DDE, chlordane, mirex, etc.) date, location 	 4a Variables Included (summarized if extensive) water (lakes, streams, sediment pore, precipitation): nutrients, major ions, silica, pH, alkalinity, conductivity, chlorophyll(lakes only), trace metals, stable isotope ratios, radioisotopes, organochlorines phytoplankton photosynthesis, nutrient status phytoplankton species and biomass
4b.	Geographic Coverage 1,200 lakes in Ontario, Prairie Provinces and Northwest Territories, plus the Great Lakes.	 zoobenthos and zooplankton species and abundance fish species, age, length, weight, carbon and nitrogen isotopes, physiologic parameters buddheethos choice until being parameters
4c.	Data Acquisition Method(s) Fish inspectors sample commercial catches.	 pateolimology of diatom species
4d.	Geographic Unit(s) of Measurement Samples located by latitude, longitude, lake, watershed.	 meteorology: air temperature, evaporation, nours of sunsnine, precipitation, relating humidity, snow depths, solar radiation, wind ice of/on data
40.	Period of Record 1970 - present.	 light attenuation and temperature profiles and Secchi depths in lakes
4f.	Update Frequency As catches are sampled.	 inflow and outflow stream discharges uplands: soil chemistry, physical properties, soil suction, bedrock geology, ar surface chemistry
4g.	Database Hardware/Software Configuration VAX computer with RDB software supplied by DIGITAL	4b Geographic Coverage 92 lakes and 47 associated streams in northwestern Ontario were studied over 23 years.
4h.	Output Format(s) (tables, maps, etc.) Tables.	Ac Deta Acquisition Method(a) Lakes and streams sampled every two weeks to one mon
5	Restrictions and Conditions No data on individual fishermen or companies will be released	Some meteorological data is collected hourly to daily.
6	Price Information No charge.	4d Geographic Unit(s) of Measurement Lake number from map of the Experimental Lake Area, published by Fisheries Research Board
7.	Corresponding Printed Sources List of Lakes Classified by Contaminant Level.	4e. Period of Record Varies by lake and discipline, 1968 to 1990.
8	Languages The database and document are in English.	4f. Update Frequency Yearly
9	User Alds Available None.	4g. Database Hardware/Software Configuration Varies by discipline but primarily: ASCII files on VAX, DBASE II/I/V and custom software on IBM PC's.
10.	Keywords Alberta; Biota; Biotic response; Contaminants, Fish; Fisheries; Great Lakes; Harvesting; Lakes; Manitoba; Northwest Territories; Ontario; Prairies; Saskatchewan.	4h. Output Format(s) (tables, maps, etc.) Graphs, tables.
11.	Additional information	5. Restrictions and Conditions At the discretion of the Section and Project Scientists.
	 Information on whitelish parasites, (housed in another small database), is also given in the publication 	6. Price Information No charge
	The data are sent to the Regional Office by the district offices.	7. Corresponding Printed Sources 400 primary publications, 100 Data or Technic Reports, 40 Theses.
		8 Languages The database is in English. Publications in English with French abstracts
		9. User Aids Available None.
		10. Keywords Aquatic ecosystems; Biotic response; Climate; Freshwater, Lakes; Ontario
		11. Additional Information
		 Approximately 25 lakes, their associated streams and meteorological parameters w be monitored for the foreseeable future. A multidisciplinary database, residing on a VAX computer, is being planned

	Fish Habitat Database for the Northwest Territories		Fisheries and Marine Mammal Resource Inventory and Critical Habitat Database
1.	Datafile Name(s) Not applicable	1.	Datafile Neme(s) Data sets are filed by area and species.
2a.	Summary Description of Contents A bibliographic database of freshwater fish and fish habitat data collected in the Northwest Territories, particularly the Mackenzie River valley portion.	2a.	Summ ary Description of Contents A database on important habitat and species distribution for fish and marine mammals in the western Canadian Arctic and Arctic Islands, Lancaster Sound Land Use Planning Area. Development of a database for Junce and Development of Arctic and Development of a database for Junce and Development of Arctic and Development of a database for Junce and Development of Arctic and Development of a database for Junce and Development of Arctic and Development of Arctic and Arctic Arctic and Development of Arctic and Development of Arctic Ar
2b.	Purpose of the Database To collate existing data on fish and fish habitat for fishery and habitat management purposes.	26.	Purpose of the Database To provide information on critical habitat and distribution
3a	Name and Address of Responsible Organization Fisheries and Habitat Management Directorate, Resource Allocation and Habitat Management Division, Freshwater Institute, Department of Fisheries and Oceans, Winnipeg, Manitoba, R3T 2N6	3a.	Name and Address of Responsible Organization Fisheries and Habitat Management. Directorate, Freshwater Institute, Department of Fisheries and Oceans, Winnipeg. Manifolia, R3T 2N6
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bruce Fallis (204) 983-5221 or (204) 983-5162 (messages)	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dennis Wright (204) 983-5204 Mr. Larry DeMarch (204) 983-5186
3с.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) for rivers: velocity, discharge, watershed area, ice-free period; fish movement barriers; heavy metals (in biota, sediments, water) and other metals; organic contaminants; species present (fish), fish (spawning condition, age, sex,	4a.	Variables included (summarized if extensive) - spiscies • whates (beluga, bowhead, narwhal)
	malurity), lishery status; habitat use (spawning, nursery, migration); phytoplankton, zooplankton, benthos, macrophytes		 seals (bearded, ring) walrus
	 tor takes: bathymetry, volume, shoreline development index; sediment samples; substrate description; habitat use by fish; ice-free period 		 Ish (Arctic char, cod, whifelish, ciscoes, smells, capelin, herring, major species of treshwater, anadromous and marine fish) distribution (presence absence)
4Ь.	Geographic Coverage Northwest Territories.		 hasitat use (leeding, spawning, migration, overwintering)
4.c.	Data Acquisition Method(s) Literature review and personal communication with industry, government and other individuals from the private sector	4b.	Geographic Coverage Western Canadian Arctic and Arctic Islands, Lancaster Sound Land Use Planning Area, Hudson Bay and District of Keewatin.
4d.	Geographic Unit(s) of Measurement. Sites referenced by latitude, longitude, name and unit areas of the Water Survey of Canada area units.	4c.	Data Acquisition Method(s) From the literature and region staff
40.	Period of Record Anything pertinent (emphasis on 1980 - present).	4d	Geographic Unit(s) of Measurement Polygons at 1:1,000,000 designated by UTM grid.
4f.	Update Frequency Continually updated.	40.	Period of Record 1981 - present.
4g.	Database Hardware/Software Configuration VAX computer with 2020 software.	41	Update Frequency Continually
4h	Output Format(s) (tables, maps, etc.) Texi, tables	49.	Database Hardware/Software Configuration HP 2700 computer with custom software. Currently putting Hudson Bay and Keewatin database are being put into ESL-Q JICKMAP System
5.	Restrictions and Conditions Data from industry may be restricted.	41	Outmut Example) (tables mans sto.). Mans tables tout
6.	Price Information No charge.	40.	Outpur Pormar(a) (tablea, manpa, erc.) Maps, tables, text.
7.	Corresponding Printed Sources None currently.	5.	Restrictions and Conditions None.
8.	Languages The database is in English.	6.	Price Information No charge for Atlas or printouts.
9.	User Aids Available None.	7.	Corresponding Printed Sources 1. Published atlas - An Atlas of Important Habitats Through the Beaufort Sea and
10.	Keywords Aquatic ecosystems, Biota, Fish, Northwest Territories.		Northwest Passage, 1985. 2. Maps prepared for Lancaster Sound Land Use Planning Area.
11.	Additional Information 1. Coverage for the Mackenzie Valley drainage basin is complete; the remainder of the		 Mups prepared for Beaufort Sea-Mackenzie Delta Land Use Planning Area. Mups, text and literature review in preparation for Hudson Bay and District of Keewatin.
	 Territories is 40% finished. There are plans to produce a hard copy of the database and to eventually put it on 	8.	Languages The database and atlas are in English.
	disk for distribution in a DBASE format	9.	User Aids Available None
		10.	Keywords Aquatic ecosystems; Arctic; Biota; Critical habitats; Fish; Mammals; Manne mammals.
		11.	Additional Information 1. A map indicating priority areas of significant habitat is currently available for a large
			 Scme of the Arctic; mapping will be extended to cover the rest of the Arctic. Scme of the database is being put on SPANS.

	Long Range Transport of Atmospheric Pollutants - Organics		Mayflies, Stoneflies and Caddisflies of Manitoba
1.	Datafile Name(s) Not applicable	1. Di	tafile Name(s) Not applicable
2a.	Summary Description of Contents Contaminant data in sediment cores and fish species for several lakes along a latitudinal transect in northern Canada.	2a Su Ma	mmary Description of Contents Distribution of three aquatic insect orders in anitoba and North America.
2 b.	Purpose of the Database To examine trends in contaminant levels in northern Cariada.	2b. Pu or	arpose of the Database To document the distribution of three aquatic insect ders and assess their postglacial origins.
За	Name and Address of Responsible Organization Contaminants Research, Contaminant and Toxicology, Physical and Chemical Sciences Branch, Central and Arctic Region, Department of Fisheries and Oceans, Freshwater Institute, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.	3a. Na Bia 50	ame and Address of Responsible Organization Fish Habitat Research Division, ological Sciences Directorate, Freshwater Institute, Department of Fisheries and Oceans, 11 University Crescent, Winnipeg, Manitoba, R3T 2N6.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Lyle Lockhart (204) 983-7113	3b. Co Dr	ontact Person(s), Address (If different from 3a), Telephone and FAX Number(s) . John Flannagan (204) 983-0864
3c.	Access Mechanisms Through the responsible organization	3c. Ad	ccess Mechanisms Through the responsible organization.
		4a. Va	riables Included (summarized if extensive)
4a.	variables included (summarized If extensive) sediment samples include: stable organochlorines (e.g. chlordane, PCBs,		species and location in Manifoba (lake, river name) North American location (presence/absence in drainage basins)
	toxaphene, dieldrin, etc.); polycyclic aromatic hydrocarbons (16 EPA priority compounds), metals (cadmium, zinc, titanium, manganese, lead); radionuclides	4b. Ge	eographic Coverage Mantoba (specific occurrences); North America (range).
	 (lead isotopes) fish tissue samples (lake trout, Arctic char) include: organochlorines; heavy metals; 	4c. Da	ta Acquisition Method(s) Published literature and field data collection.
4b.	enzyme activity in liver Geographic Coverage Northwest Territories - seven sites, including 2 near Kluane,	4d. Ge Ar	eographic Unit(s) of Measurement. Distribution in Manitoba by lake, river; within North nerica by drainage basins (see National Atlas of Canada).
	2 lakes and a fjord at Chesterfield Inlet (Hudson Bay), 2 lakes near Resolute Bay.	40. Pe	riod of Record Up to 1982.
4c.	Data Acquisition Method(s) Core and tissue samples collected in the field.	4f. Up	odate Frequency As information is accumulated.
4d.	Geographic Unit(s) of Measurement Samples referenced by lake name, latitude, longitude.	4g. De	stabase Hardware/Software Configuration Paper file.
40.	Period of Record Cores cover at least the last 100+ years; some samples cover several hundred years.	4h. Oi	utput Format(s) (tables, maps, etc.) Report contains tables and maps as well as text.
41	Undate Frequency Not applicable	5. Re	strictions and Conditions None.
An	Database Hawtware/Software Configuration VAX computer	6. Pr	ice Information No charge
49. 4h.	Output Format(s) (tables, maps, etc.) Tables.	7. Ce Di	presponding Printed Sources Flannagan, P.M. and Flannagan, J.M., (1982). Present stribution and the Postglacial Origin of the Ephemeroptera, Plecoptera and Trichoptera Manitche, Technical Paper No. 23.1 Manitche Department of Network Paper
5.	Restrictions and Conditions Priority for publication is held by the researcher;	0	mannoda, reclinical report no. 62-1. mannoda Department of Natural Resources.
	subsequently the data would be available without conditions.	8. La	inguages The report is in English.
6.	Price Information No charge.	9. Ut	er Aide Available None.
7.	Corresponding Printed Sources None at present (see 11).	10. K e	eywords Aquatic ecosystems; Biota; Biotic response; Insects; Manitoba.
8.	Languages The database is in English.	1t. Ac	Iditional Information This database may serve as baseline data for assessing changes in environmental
9.	User Aids Available None.	2	quality. It is also useful as a fish habitat indicator.
10.	Keywords Air pollution; Aquatic ecosystems; Arctic; Biotic response; Contaminants; Fish; Organic pollutants; Sediments; Toxics.	3.	Generally the data are collected with reference to a specific issue, rather than from a general survey.
11.	Additional Information		
	 This database is in preparation. There are plans to publish the data in scientific journals when the Resolute Bay 		
	analysis is complete. 3. The database will be extended to include Hazel Lake on Ellesmere Island.		
	 This project is a cooperative effort of four researchers who can be reached through the contact person. 		

	Northwestern Ontario Lake Size Series Water Database		Saqvaqjuac Field Station Arctic Ecosystem Database
1.	Datafile Name(s) Not applicable.	1.	Datefile Name(s) Not applicable
2a.	Summary Description of Contents Data on water chemistry and aquatic organisms for lakes of varying surface area in northern Ontario.	2a.	Summury Description of Contents A multidisciplinary collection of databases including biological, chemical, hydrological and meteorological information on manuou ated (nitrogen and phosphorous-fertilized) lakes. Some marine work to
26.	Purpose of the Database To examine the relationship between spatial scale and the response of lakes to environmental change.		duplicate studies done in Barrow Strait-Lancaster Sound.
3a.	Name and Address of Responsible Organization Fish Habitat Research Division, Biological Sciences Directorate Western and Artic Resign Department of Fisheries and	26.	Purpose of the Database The databases support the whole-lake ecosystem research conducted at Saqvaqjuac, NWT.
	Oceans, Winnipeg, Manifoba, R3T 2N6.	За.	Name und Address of Responsible Organization Fish Habitat and Research Division, Biological Sciences Directorate, Central and Arctic Region, Department of Fisheries and
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Everett Fee (204) 983-5172		Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6
3c.	Access Mechanisms Through the responsible organization.	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) H.E. Wolch (204) 983-5132 Ms. K. Martin-Bergmann (204) 983-5131
4a.	Variables Included (summarized if extensive)		FAX: (204) 984-2404
	 nutrients (nitrogen species, phosphorus species, carbon species) major ions (sodium, potassium, chloride, magnesium, sulphate, calcium) 	3c.	Access Mechanisms Through the responsible organization
	- alkalinity	4a.	Variables Included (summarized if extensive)
	 mercury and organic contaminants in water, sediment and itsn phytoplankton photosynthesis 		uniter-ice water circulation of lakes oitrogen firstion by epilithic periphyton
	- phytoplankton (biomass, species)		- wirter respiration of lakes
	 bacteria and picoplankton 		 hydrological and meteorological observations
	- zooplankton (biomass, species)		- precipitation chemistry and chemical limnology of natural and fertilized lakes
	- tish (species; carbon, nitrogen isotopes)		- chilonomid emergence in manipulated lakes
	 microbial decomposition rates pH temperature light meteorological data 		 macrobenthos (amphipod and Trichopetra) production in manipulated lakes Aretic char and lake trout data (including abundance, size, growth, and diet) from
	pri, temperatore, ngini, meteorengicali dalla	1.0	excerimental lakes
4b.	Geographic Coverage Six lakes of varying sizes in northern Ontario.		 Saryaqjuac river fish data (includes information on Andromous char) miscellaneous information on fish from other lakes in the area
4c.	Data Acquisition Method(s) Lakes are sampled every 2-3 weeks in the summer and		- Greenland cod biology
	twice in the winter; meteorological data are from the Atmospheric Environment Service.		- marine water chemistry
4d.	Geographic Unit(s) of Measurement Lakes samples located by latitude, longitude		 ice algae production and ice-associated amphipod composition and abundance some ringed seal stomach analysis
4 0 .	Period of Record 1985 - present.	4b.	Geographic Coverage Research was centred at 63° 39 N, 90° 39 W at the Sagvaquac Research camp 40 km north of Chesterlield Jolet northwest Hudson
41.	Update Frequency Yearly.	11.1	Bay
4g.	Database Hardware/Software Configuration VAX computer for data storage; data manipulation using IBM microcomputer with DBASE III software.	4c.	Data Auquisition Method(s) Routine sampling procedures, some seasonal, some year- round.
4h.	Output Format(s) (tables, maps, etc.) Tables, graphs.	4d.	Geographic Unit(s) of Measurement Various
5.	Restrictions and Conditions None	40.	Period of Record Varies by discipline, overall 1977-1983, 1988.
6.	Price Information No charge	4f.	Update Frequency Work completed, some publications in progress.
7.	Corresponding Printed Sources Fee et al. (1988). Climate and Lake Variability Research in the Red Lake Area (1985 - 86 data)	4g.	Database Hardware/Software Configuration Varies by discipline: ASCII files on VAX; LOTUS spreadsheet on IBM PC; DBASE III+ on IBM PC
8.	Languages The database and report are in English.	4h.	Output Format(s) (tables, maps, etc.) Publications with text, tables, graphs and maps.
9.	User Aids Available None.	5.	Restrictions and Conditions At discretion of the Section Scientist.
10.	Keywords Aquatic ecosystems; Biotic response; Climate; Freshwater; Lakes; Ontario; Water quality.	6.	Price Information No charge.
11.	Additional Information 1. Lakes Nipigon and Superior are to be added to the 6 lakes currently in the database	7.	Corresponding Printed Sources 10 primary publications, 3 data and technical reports, 2 primary publications in press and 2 theses.
	 that the size range will be from 90 to 8,220,000 hectares. This database will be increased over a ten-year sampling program. Another report is planned. 	8.	Languages The database is in English. Publications in English with abstracts translated into French.
		9.	User Aide Available None.
		10.	Keywords Amphipods; Aquatic ecosystems; Arctic; Arctic Char; Chironomids; Biotic response; Cod; Eutrophication; Fish; Freshwater; Ice, Lake trout; Lakes.
		11.	Additional Information None.

Stable Isotope Data

1. Datafile Name(s) Not applicable.

- 2a. Summary Description of Contents Stable isotopic analyses of sulphur, carbon and nitrogen in geochemical and biological components of the Canadian aquatic food chains.
- 2b. Purpose of the Database The database supports the development and application of stable isotope methodology for the interpretation of aquatic food chains.
- 3a. Name and Address of Responsible Organization Fish Habitat and Research Division, Biological Sciences Directorate, Central and Arctic Region, Department of Fisheries and Oceans, 501 University Crescent, Winnipeg, Manitoba, R3T 2N6.
- 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Raymond H. Hesslein. (204) 983-5251
- 3c. Access Mechanisms Through the responsible organization.
- 4a. Variables Included (summarized if extensive)
 - stable isotopes of sulphur (S34), carbon (C13) and nitrogen (N15) in water, sediments, fish, invertebrates, macrophytes
- 4b. Geographic Coverage Mackenzie Delta; Northwestern Ontario; Arctic coastal freshwater systems.
- 4c. Data Acquisition Method(s) Mass spectrometry.
- 4d. Geographic Unit(s) of Measurement Names of sites.
- 4e. Period of Record 1981-1991.
- 4f. Update Frequency Weekly when data is being produced.
- 4g. Database Hardware/Software Configuration DBASE III/IV on IBM PC.
- 4h. Output Format(s) (tables, maps, etc.) Tables, graphs.
- 5. Restrictions and Conditions At discretion of the Project Leader.
- 6. Price information No charge.
- 7. Corresponding Printed Sources Data reports and primary publications.
- 8. Languages Publications in English with abstracts translated into French.
- 9. User Aids Available None
- 10. Keywords Aquatic ecosystems; Arctic; Lakes; Sulphur.
- 11. Additional Information None.

FISHERIES AND OCEANS Pacific and Yukon Region

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
ABALONE HARVEST LOG	Ms. Sue Farlinger (604) 624-0464 Mr. Greg Thomas (604) 624-0465	119
ARCTIC INDUSTRIAL ACTIVITIES	Mr. Brian Smiley (604) 363-6551	119
BRITISH COLUMBIA AND YUKON STREAM INFORMATION SUMMARY SYSTEM (SISS)	Mr. Peter Delaney (604) 666-2410 Mr. Bruce Reid (604) 666-7015 Ms. Kathy Pontus (604) 666-6683	120
BRITISH COLUMBIA HERRING DATA	Vis. Vivian Haiste (604) 756-7205 Vir. Jake Schweigert (604) 756-7203	120
BRITISH COLUMBIA PRAWN AND SHRIMP COMMERCIAL SAMPLING DATABASE	Wr. John Fulton (604) 756-7018	121
BRITISH COLUMBIA RECREATIONAL FISHING CATCH STATISTICS	Ms. Lia Bijsterveld (604) 666-6501	121
BRITISH COLUMBIA SHELLFISH RESEARCH DATA	Mr. John Fulton (604) 756-7018	122
GENERAL BIOLOGICAL DATA FOR THE PACIFIC COAST (BISEL)	Mrs. Kathy Rutherford (604) 756-7171	122
HARBOUR SEALS DATABASE	Database Manager (604) 756-7253	123
HISTORICAL PACIFIC SALMON CATCH DATABASE	Mr. Louis Lapi (604) 756-7144	123
IN-SEASON PACIFIC SALMON CATCH MONITORING SYSTEM	Vr. Vic Palermo (604) 666-6592 Vr. Albert Wong (604) 327-1048	124
KILLER WHALES DATABASE	Database Manager (604) 756-7253	124
NORTHERN FUR SEALS DATABASE	Database Manager (604) 756-7253	125
OCEANOGRAPHIC DATA INVENTORY SYSTEM (ODIS)	Mr. Brian Smiley (604) 363-6551 Mr. Larry de March (204) 983-5186	125
PACIFIC COMMERCIAL FISH CATCH STATISTICS SYSTEM (CCSS)	Mr. James Bjerring (604) 666-2630	126
PACIFIC FISHERIES LICENCING DATABASE	Mr. Stephen Brownlee (604) 666-2076	126
PACIFIC GROUNDFISH CATCH AND CATCH EFFORT DATABASE	Mrs. Kathy Rutherford (604) 756-7171	127
PACIFIC HAIL CATCH (SALMON) DATABASE	Mr. Ron Goruk (604) 624-0460	127
PACIFIC HAKE OBSERVER DATABASE	Mr. Mark Saunders (604) 756-7154 Mr. Barry Ackerman (604) 666-39912	128
PACIFIC NATIVE FOOD FISHERY	Ms. Lia Bijsterveld (604) 666-6501	128

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
PACIFIC SALMON ESCAPEMENT DATA SYSTEM	Mr. Louis Lapi (604) 756-7144	129
PACIFIC SALMON MARK RECOVERY PROGRAM DATABASE	Mr. Louis Lapi (604) 756-7144	129
SALMONID ENHANCEMENT PLANNING INFORMATION CONTROL DATABASE (EPIC)	Ms. Sue Lehman (604) 666-2039 Mr. Greg Steer (604) 666-0115	130
SEA LIONS DATABASE	Database Manager (604) 756-7253	130

	Abaione Harvest Log		Arctic Industrial Activities
t.	Datafile Name(s) Not applicable	L	Datafile Name(s) Not applicable
2a.	Summary Description of Contents: A regional database providing catch, effort (hours), location, diver name and licence number for the B.C. abalone fishery.	2a.	Summary Description of Contents A series of catalogues providing information and refurences to industrial activities in the marine Canadian Arctic
2Ь.	Purpose of the Database To record catch/effort and to confirm international quota landings for B.C abalone fisheries.	26.	Purpose of the Database. To provide a complete and reliable log of the major activities of offshore oil and gas development.
За.	Name and Address of Responsible Organization Herring/Shelflish Section, Management Biology Unit, North Coast Division, Department of Fisheries and Oceans, 202-417 West 2nd Avenue, Prince Rupert, B.C., V8J 1G8.	3a.	Name and Address of Responsible Organization Data Assessment Division, Institute of Ocean Sciences, Department of Fisheries and Oceans, P.O. Box 6000, Sidney, B.C., V8L 4B2
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Sue Farlinger (604) 624-0464 Mr. Greg Thomas (604) 624-0465	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Brian Smiley (604) 363-6551 FAX: (604) 363-6479
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization
4a. 4b. 4c. 4d. 4e. 4f. 4g.	 Variables included (summarized if extensive) catch effort effort location Geographic Coverage B.C. coast Data Acquisition Method(s) Data are obtained from fishermen's harvest logs required as a condition of licence. Geographic Unit(s) of Measurement Not applicable. Period of Record 1977 - 1989. Update Frequency Ongoing. Database Hardware/Software Configuration Microcomputer with SYMPHONY software.	4a.	Variables included (summarized if extensive) - marine dredging - company, dredge name and type, purpose - start and stop dates, water depth, dump method, sediment type - load and dump volumes - seismic surveys and well drilling - proponent, well name, number, spud and release data - access road and air stnp requirements - vehicles and major equipment - well depth/survey distance - drill mud components - well name, additives (LCS0, type), date - well status (dry, abandoned, suspended) - drill rig type, water depth - discharges - contractor, operator - drill mud
4h.	Output Format(s) (tables, maps, etc.) Tables.		 vetsel and helicopter movements associated with industrial activities
5.	Restrictions and Conditions Confidential	4b	Geographic Coverage Marine Arctic Canada.
6.	Price Information No charge for reasonably sized requests.	4c	Data /.cquisition Method(s) Literature review, record compilation and personal communications conducted on contract for the Department.
7.	Corresponding Printed Sources Biennial reports: Canadian Manuscript Reports in Aquatic Sciences.	4d.	Geographic Unit(s) of Measurement Individual activities referenced by latitude, longitude.
8.	Languages The report, database and background documents are in English.	40.	Period of Record 1982 - present.
9.	User Aids Available A documentation binder has been prepared for internal use that can be viewed at the responsible organization's office, but it is not for public dissemination.	4f.	Update Frequency As new information is identified.
10.	Keywords Abalone; British Columbia; Fisheries; Pacific; Shelfish.	4g.	Database Hardware/Software Configuration Paper file/published catalogue. Custom query databases for IBM-PC
11.	Additional Information None.	4h.	Output Format(s) (tables, maps, etc.) Reports with tables, maps, text.
	THE REPORT OF THE PARTY OF THE	5.	Restrictions and Conditions None.
		6.	Price Information No charge for report.
		7.	Corresponding Printed Sources Catalogues published in Canadian Data Report of Hydrography and Ocean Sciences No. 32.
		8.	Languages Reports and database in English; French abstracts in reports.
		9.	User Aids Available See introduction in catalogues.
		10.	Keywords Arctic; Environmental restructuring; Exploration; Industry; Marine.
		11.	Additicnel Information To date four catalogues have been prepared. These cover the following areas and topics (more are in progress): Marine dredging - Canadian Beaufort Sea Sissmic/drilling activities - Canadian High Arctic Drill waste discharges - Canadian Arctic Vessel/aircraft traffic - Canadian Beaufort Sea

	British Columbia and Yukon Stream Information Summary System (SISS)	British Columbia Herring Data
1	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable
2a	Summary Description of Contents A regional database providing summary level fish and fish habitat data for streams in B.C. and Yukon.	 Summary Description of Contents Biological data on herring and herring spawning areas for B.C.
59	Purpose of the Database The database was developed under the Federal/Provincial Fish Habitat Inventory and Information Program to document existing information on streams. The database can be used for: initial screening of habitat related referrals; providing an overview of production potential for stock management purposes; selecting streams for enhancement, restoration or management activities; identifying streams for research activities;	 2b. Purpose of the Database To collect data for herring stock assessment and management. 3a. Name and Address of Responsible Organization Herring Division, Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6. 2b. Control Responsible Address (If different from 2a) Telephone and EAX Mumber(a).
3.5	provioing rish habitat information to agencies, companies and the public.	Ms. Vivian Haiste (604) 756-7205 Mr. Jake Schweigert (604) 756-7203
38	Inventory Unit, Habitat Management Division, Fisheries Branch, Department of Fisheries and Oceans, 555 West Hastings Street, Vancouver, B.C., V6B 5G3.	3c. Access Mechanisms Through the responsible organization.
3b 3c	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Delaney (604) 666-2410 Mr. Bruce Reid (604) 666-7015 Ms. Kathy Pontus (604) 666-6683 Access Mechanisms Through the responsible organization.	4a. Variables Included (summarized if extensive)
4a	Variables Included (summarized if extensive)	 date
	 Ish distribution, salmon escapements, salmon life history timing enhancement and management activities 	 spawning ground location area (length, width) egg density
	 Iand use, water use and water quality activities fish production potential, constraints and comments 	4b. Geographic Coverage B.C.
4b	Geographic Coverage B.C. and Yukon.	4c. Data Acquisition Method(s) Research cruises, catch sampling at catch landing points, field surveys
40	Data Acquisition Method(s) Information obtained from federal and provincial fisheries staff. local residents and a variety of literature sources including: consultants reports, personal memos, and Department of Fisheries and Oceans and B.C. Ministry of Environment reports and files. Escapement information obtained from the Salmon Escapement Data System (SEDS). Geographic Unit(s) of Measurement Individual streams and tributaries, Department of Fisheries and Oceans, subdistrict management units	 4d. Geographic Unit(s) of Measurement 2,500 localities along the coast. 4e. Period of Record 1950 - present. 4f. Update Frequency Annually. 4g. Database Hardware/Software Configuration MICROVAX with custom software. 4h. Ordert Frequenci (tables managed to Tables).
40	Period of Record 1953 - present.	40. Cuthur commute (univers, manpe, etc.) rables.
4f	Update Frequency Annually, as required.	5. Hestrictions and Conditions None.
4g	Database Hardware/Software Configuration DEC VAX 8530 minicomputer and INGRES relational database software, accessible by terminal or microcomputer with terminal emulation software.	Price Information No charge. Corresponding Printed Sources Two annual reports: Summary of B.C. Herring Sampling Data, Stock Assessments for B.C. Herring and Forecasts of the Potential Catch.
4h_	Output Format(s) (tables, maps, etc.) Individual reports for each stream consisting of	8. Languages Database and reports are in English.
5	Restrictiona and Conditions No restrictions for examining database; restricted access	9. User Aids Available None.
	for updating and adding information.	10. Keywords British Columbia, Fish, Fisheries; Herring.
6	Price information No charge for reasonably sized requests.	 Additional Information This database is on-line for use by Department of Fisheries and Oceans personnel, but it is not set up for public on-line access.
2	Corresponding Printed Sources Stream Summary Catalogues are being published, which contain SISS reports for all streams on a DFO subdistrict basis, along with tables of salmon escapement data and Stream Summary Maps (1:50,000 NTS maps).	
8	Languages Database and reports are available in English only.	
9.	User Alds Available A user's manual and brief user guides are available.	
10	Keywords British Columbia; Fish; Habitats; Rivers; Salmon; Yukon.	
11.	Additional Information Information for 95% of DFO subdistricts have been entered in the database. This represents over 3,200 streams. A total of 25 out of 48 catalogues have been published to date. Hard copy individual stream reports are available on request.	

	British Columbia Prawn and Shrimp Commercial Sampling Database		British Columbia Recreational Fishing Catch Statistics
1	Detafile Name(s) Not applicable	1.	Datafil-> Name(s) Not applicable
2a.	Summary Description of Contents Data on size and sex of shrimp and prawns caught off the coast of B C	2a.	Summary Description of Contents Catch statistics for the B.C. sports fishery.
2b.	Purpose of the Database To supply data for predicting maximum sustainable yield and regulating the fishenes.	26.	Purpose of the Database To monitor and manage the sports fishery and prepare fish population reconstructions.
3a.	Name and Address of Responsible Organization Shellfish Section, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.	3a.	Name and Address of Responsible Organization Statistics, Pacific Region, Department of Fisheries and Oceans, 555 West Hastings Street, Suite 410, Vancouver, B.C., V6B 5G3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John Fulton (604) 756-7018	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Lia Bijsterveld (604) 666-6501
3c.	Access Mechanisme Through the responsible organization	Зс.	Access Mechanisms Through the responsible organization; also available on-line.
4a	Variables included (summarized if extensive) - species (shrimp, prawn), sex	4a	Variables Included (summarized if extensive) - spisces (salmon, Pacific halibut, rockfish, lingcod) - calch (number of fish)
	 rengm-rrequency sampling date location (statistical areas, subareas, fishing location) daily catch 		 statistical area (29 units) number of angler days da e (year, month)
	- effort, gear description	46	Geographic Coverage B.C.
4b.	Geographic Coverage Offshore B.C.	4c.	Data Acquisition Method(s) Creel surveys, logbooks, mail surveys.
4c.	Data Acquisition Method(s) Onboard vessel sampling for prawns, onshore or processor sampling for shrimp.	4d.	Geographic Unit(s) of Measurement Statistical areas.
4d.	Geographic Unit(s) of Measurement Statistical areas, subareas, fishing location.	40.	Period of Record 1952 - present
40.	Period of Record 1979 - present.	41.	Update Frequency Annually
4f.	Update Frequency Ongoing.	4g.	Database Hardware/Software Configuration VAX computer with INGRES database management system.
4g.	Database Hardware/Software Configuration VAX computer with DATATRIEVE software	4h.	Output Format(s) (tables, maps, etc.) Tables.
4h.	Output Format(s) (tables, maps, etc.) Tables.	5.	Restrictions and Conditions None
5.	Restrictions and Conditions Effort data are confidential for individual fishermen or for	6.	Price Information No charge for requests or on-line access.
6.	Price Information Not yet determined.	7.	Corresponding Printed Sources Up until 1977, annual publication - Salmon Sports/shing Catch Statistics for B.C. Tidal Waters., From 1979 - present, annual publication - Recreational Mail Surveys Tidal Sout Fishing Diary Program and Visitors
7.	Corresponding Printed Sources None.		Sport Fishing Survey. From 1983-present, annual publication - Strait of Georgia Creel Survey Sport Fishery Statistics.
8.	Languages Database is only numbers.	8.	Langunges Database and reports are in English.
9.	User Alds Available None.	9.	User Aids Available User manual for the recreational catch statistics database.
10.	Keywords British Columbia; Fisheries; Harvesting, Prawn; Shrimp; Shellfish.	10.	Keywords British Columbia; Fisheries; Harvesting, Sport fishing.
11.	Additional Information None	11.	Additic nel Information None.

	British Columbia Shellfish Research Data	General Biological Data for the Pacific Coast (BISEL)
1	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable
2a.	Summary Description of Contents Catch and catch effort data for the commercial prawn and shrimp fisheries of the coast of B.C.	 Summery Description of Contents Biological data on individual groundfish sampled from commercial and research catches on the coast of B.C.
2b.	Purpose of the Database To document the shelflish fisheries and provide stock assessment data.	2b. Purpose of the Database To maintain a catalogue of groundfish samples that have been collected from research and commercial samples.
 2b. 3a. 3b. 3c. 4a. 4b. 4c. 4d. 4d. 4g. 4h. 5. 	 Purpose of the Database To document the shellfish fisheries and provide stock assessment data. Name and Address of Responsible Organization Shellfish Section, Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr John Fulton (604) 756-7018 Access Mechanisms Through the responsible organization. Variables Included (summarized if extensive) location (statistical areas, sub areas, fishing location) daily catch: species; weight effort catch/hour (shrimp); catch/trap (prawns) gear description Geographic Coverage Offshore 8 C. Data Acquisition Method(s) Fishermen's log books. Geographic Unit(s) of Measurement Statistical areas, sub areas, fishing location, Period of Record Prawn: 1980 - present. Shrimp: 1986 - present. Update Frequency Ongoing. Database Hardware/Software Configuration VAX computer with DATATRIEVE software. Output Format(s) (tables, mape, etc.) Tables. Restrictions and Conditions Effort data are confidential for individual fishermen or for summary data where three or fewer fishermen are involved. 	 2b. Purpose of the Database To maintain a catalogue of groundfish samples that have been collected from research and commercial samples. 3a. Name and Address of Responsible Organization Statistics/Sampling Unit, Groundlish Division, Biological Sciences Branch, Pacific Biological Statistics/Sampling Unit, Groundlish Division, Nanaimo, B.C., V9R 5K6. 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mrs. Kathy Rutherford (604) 756-7171 3c. Access Mechanisms Through the responsible organization. Interactive Query Program available with permission of database manager. 4a. Variables Included (summarized if extensive) date, vessel, location (area, region, locality) species, number of specimens gear type sample type 4b. Geographic Coverage Coast of B.C. 4c. Data Acquisition Method(s) Samples collected in the field. 4d. Geographic Unit(s) of Measurement Special area codes unique to this investigation. 4e. Period of Record 1946, 1948-57, 1977, 1984, 1985. 4f. Update Frequency When time permits 4g. Database Hardware/Software Configuration Custom programmed database manager in FORTRAN mounted on VAX/VMS system. 4h. Output Format(s) (tables, maps, etc.) Interactive screen query of sample catalogue and sample select program for downloading of selected sample data from tape.
6.	Price Information Not yet determined	 Restrictions and Conditions Government has proprietary right to publications. Database is complicated anough that all queries should on through the database manager.
7.	Corresponding Printed Sources Data used in preparing annual report to the International Pacific Fisheries Commission.	6. Price Information No charge.
8.	Languages Database is mostly numbers.	 Corresponding Printed Sources No summary available. Background methodology on how samples were collected exists in a diverse collection of unpublished notes, working.
9.	User Aids Available None	documents and secondary literature.
10.	Keywords British Columbia; Fisheries; Harvesting, Prawn, Shellfish; Shrimp	8. Languages Database is in English.
11.	 Additional Information Post-1984 data are most comprehensive as reporting became compulsory that year. This database is used to augment the catch and effort databases held by the Statistics Branch, Pacific Region and provides more detail than the latter. 	 User Aids Available Unpublished user's document. Keywords British Columbia; Fish; Fisheries; Groundfish. Additional Information Database is incomplete. A general access program has been written (BISEL) for searching and selecting from a catalogue file. Selection of specific samples from the on-screen catalogue automatically creates a batch file that requests a tape job to dump selected samples from the library to on-line storage. Only a small proportion of the historical samples have been converted into the standardized formats. Most currently reside in a wide variety of data formats or have not been transcribed from original field summaries. There are additional numerous small biological databases which have been created for individual projects (ie. tagging studies) which have little supporting documentation and are not in standardized formats.

	Harbour Seals Database		Historical Pacific Salmon Catch Database
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Population data for harbour seals along the B C, coast and information on their diet.	2a	Summary Description of Contents Catch volume and economic statistics for the commercial salmon fishery in B.C.
Zb.	Purpose of the Database Data collected to determine the impact of harbour seals on commercial fisheries.	26.	Purpose of the Database To assess salmon stocks and carry out economic evaluations
la.	Name and Address of Responsible Organization Marine Mammals Research Program, Department of Fishenes and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6	3a.	Name and Address of Responsible Organization Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
lb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Database Manager (604) 756-7253	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Louis Lapi (604) 756-7144
łc.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization
la.	Variables included (summarized if extensive) - number - diet - date and location (latitude, longitude)	4a.	Variables Included (summarized if extensive) - species - catch location and landing port - date (week) - totel londed weight
lb.	Geographic Coverage B.C.		number of fish value
ic.	Data Acquisition Method(s) Aerial counts, observations, scat analysis	45	Community Courses D.C.
ld.	Geographic Unit(s) of Measurement Animals located by latitude, longitude	40	
10.	Period of Record 1986 - 1988.	4C.	Data Acquisition Methodi(a) Data from sales slips submitted under compliance by commercial fishermen
IF.	Update Frequency Continued monitoring is planned.	4d	Geographic Unit(s) of Measurement Statistical areas.
lg.	Database Hardware/Software Configuration Data stored on magnetic tape.	4e.	Period of Record 1951 - present.
lh.	Output Format(s) (tables, maps, etc.) Tables.	-4f.	Update Frequency Annually.
5.	Restrictions and Conditions Database is being checked for quality control.	4g.	Database Hardware/Software Configuration MICROVAX with custom software.
i.	Price Information No charge for reasonable requests.	4h.	Output Format(s) (tables, maps, etc.) Tables.
r.	Corresponding Printed Sources No reports yet prepared.	5.	Restrictions and Conditions None
3.	Languages Database is in English.	6.	Price Information No charges.
).	User Alds Available Documents for internal use have been prepared and are available	7	Corresponding Printed Sources B.C. Catch Statistics.
0	Kaveneda Anuatic exceptance British Columbia: Mammale: Marine mammale: Socia	8.	Languages Reports are in English.
1.	Additional Information None.	g.	User Alds Available Historical Salmon Commercial Data System of the Fisheries Research Branch, Department of Fisheries and Oceans (1983)

- 10. Keywords British Columbia; Fish; Fisheries; Pacific, Salmon.
- 11 Additional Information
 - Data prior to 1951 may be available on request although they are not part of this database.
 - A related data set on catch biological data (e.g. age composition, sex, length, weight), exists but is held by several branches of the Department and in various forms. See contact person for more details.

	In-season Pacific Salmon Catch Monitoring System		Killer Whales Database
<u>t_</u>	Datafile Name(s) Not applicable	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A database of Canadian Pacific coast commercial trolling activities and salmon catches.	2a.	Summary Description of Contents Data on the occurrence of individual killer whales along the coasts of B.C. and the state of Washington.
2b.	Purpose of the Database To provide in-season commercial salmon troll catch data for fisheries management.	2b.	Purpose of the Database Data collected to determine trends in abundance, population dynamics, and social organization of killer whales for fisheries management purposes.
3a.	Name and Address of Responsible Organization Biological Services Division, Fisheries Branch, Pacific Region, Department of Fisheries and Oceans, 400-555 West Hastings Street, Vancouver, B.C., V6B 5G3.	3a.	Name and Address of Responsible Organization Marine Mammal Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Vic Palermo (604) 666-6592 Mr. Albert Wong (604) 327-1048	Зb	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Database Manager (604) 756-7253
Зс.	Access Mechanisms Through the responsible organization.	30.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) fish species (salmon) location (statistical area) average weight by species troller fishing effort (number of boats) by statistical areas catch per unit effort boat count (by radar for west coast Vancouver Is.)	4a. 4b.	Variables Included (summarized if extensive) individual whale identity by pod date and location identity by pod film roll number identity by pod Geographic Coverage B.C. and Washington State. Date Acceletion Mathematical from photographs
41-	Commentation Contaction Restition const	Ad	Geographic Unit's) of Measurement Whales and by latitude longitude
40.	Dete Semileitien Methodie: Date collected by Department	40.	Pariod of Parcerd 1074 - 1988
46.	Data Acquisition magnods) Data conoctor by Department.	40	
4d.	Geographic Unit(a) of Measurement Statistical area.	41.	Update Frequency Annually.
40.	Period of Record 1983 - present.	4g	Database Hardware/Software Configuration Data stored on magnetic tape.
41.	Update Frequency Weekly during fishing season.	4h	Output Format(s) (tables, maps, etc.) Tables.
4g.	Database Hardware/Software Cenfiguration VAX - 8530 VMS with custom FORTRAN software; PASCAL program for microcomputers.	5.	Restrictions and Conditions Data involves collection by many individuals other than government staff and some restrictions may be placed on general distribution of the complete file.
4h.	Output Format(s) (tables, maps, etc.) Data summary tables by species, period, fishing gear, year; detailed reports available on request.	6.	Price information No charge for reasonable requests.
5.	Restrictions and Conditions On-line access by authorized personnel; data distribution restricted	7.	Cerresponding Printed Sources Numerous reports available from responsible organization
6.	Price Information No charge.	8	Languagea Database is in English.
7.	Corresponding Printed Sources No public documents; weekly data reports during fishing period for internal use only.	9	User Aids Available Documents for internal use have been prepared and are available for viewing
8.	Languages The database is in English.	10_	Keywords Aquatic ecosystems; British Columbia; Biota; Killer whales; Mammals; Marine mammals; Pacific; Wildlife.
9.	User Aids Available None.	11	Additional information None
10.	Keywords British Columbia; Fisheries; Pacific; Salmon.		PROVING THE TRUTTERATOR FIGHT.
11.	Additional information None.		

	Northern Fur Seals Database		Oceanographic Data Inventory System (ODIS)
1.	Datafile Name(a) Not applicable.	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents A summary of biological data collected on northern fur seals during the pelagic phase of their lives as part of Canada's research contribution to the North Pacific Fur Seal Commission.	2a.	Summary Description of Contents. An interactive geo-referenced directory of data sets or physics, chemistry and biology for the marine environment of the Arctic and Pacific oceans.
26.	Purpose of the Database To monitor northern fur seal populations.	2b.	Purpose of the Database To catalogue, appraise and summarize all existing data
3a.	Name and Address of Responsible Organization Marine Mammal Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.		sets for environmental impact assessment, species habitat management, and regulatory review.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Database Manager (604) 756-7253	За.	Name and Address of Responsible Organization Institute of Ocean Sciences, Department of Fisheries and Oceans, Box 6000, Sidney, B.C., V&L 4B2.
3c.	Access Mechanisms Through the responsible organization.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bran Smiley (604) 363-6551 FAX. (604) 363-6479 Mr. Larry de March. (204) 983-5186, Freshwater Institute, Department of Fisheries and
4a	Variables Included (summarized if extensive) - number	1.1	Oceans, 501 University Cres., Winnipeg, Manitoba R3T 2N6
	reproductive condition diet	3c.	Access Mechanisms Through either contact person; also available on-line.
	migration age and sex composition of population	4a.	Variat-les Included (summarized if extensive)
	- body growth		 cliemical oceanography (nutrients, dissolved oxygen, pH, heavy metals, oil-related
	- location (latitude, longitude)		 hydrocarbons, organochlorines, synthetic organics) biological oceanography (bacteria, ice algae and plankton, zoobenthos, marine and
4b.	Geographic Ceverage California to Alaska, 10-100 miles off shore		anadramous fish, seals and other pinnipeds, whales)
4c.	Data Acquisition Method(s) Shooting, dissection and observation.		 study details include: methods, measurements, investigator, date, document location
4d.	Geographic Unit(s) of Measurement Sampling sites referenced by longitude and latitude.	4b.	Geegraphic Ceverage Marine Arctic Canada and marine waters off B.C.
40.	Period of Record 1958 - 1973.	4c.	Data Acquisition Method(s) Literature survey, personal communications.
4f.	Update Frequency Discontinued after 1973.	4d.	Geographic Unit(s) of Measurement Each station and/or transect of all datasets are referenced by latitude, longitude
49	Database Hardware/Software Configuration Data stored on magnetic tape.	40.	Perior of Record 1819 - present; database established in 1981.
4h.	Output Format(s) (tables, maps, etc.) Tables.	41.	Update Frequency: As new data sets are identified.
5.	Restrictions and Conditions Data involved collection by the U.S.A. Permission is required from American authorities (National Marine Fisheries Service, Seattle) for use.	4g.	Datat ase Hardware/Software Configuration Data reside on an IBM compatible PC
6.	Price Information No charge for reasonable requests.		
7.	Corresponding Printed Sources Numerous reports are available on request from the	4h	Output Format(s) (tables, maps, etc.) Custom maps, tables, station and dataset reports.
	responsible organization	5.	Hestrictions and Conditions None concerning the information; a Tektronix or VT-type terminal and access code are required for on-line map plotting and access.
8.	Languages Database is in English.	6.	Price Information No charge for requests from government departments; cost recovery
9.	User Aids Available Documents for internal use have been prepared and are available for viewing.		policy for other users.
10.	Keywords Aquatic ecosystems; Biota, Mammals; Marine mammals; Pacific; Seals; Wildlife.	7.	Corresponding Printed Sources To date approximately 25 volumes have been published in the Canadian Data Report Series of Hydrography and Ocean Sciences. Data reports (summary from catalogue and reference source) and station reports (specific sites)
11.	Additional Information None	8	Languages Database and publications in English, catalogues have a French abstract
		9	User Aids Available for on-line access.
		10.	Keywords Arctic; British Columbia; Marine; Oceanography; Pacific.
		11	Additional Information
			 Catalogue series initiated in 1979 Database provides on-line information concerning the data sets referenced in the catalogues.
			2. Marine Arctic divided into 7 regions. Priority placed on the Beautort Sea and
			Northwest Passage with data sets catalogued for physics, chemistry, plankton, zoobenthos, marine fishes seals and whales. For the Owen Elizabeth blands
			chysics, chemistry and marine tishes are covered, while for the Arctic Ocean, physics
			and chemistry are covered. For Baffin Bay, physics data are inventoried.
			Sound/Hecate Strait area, physics and chemistry are inventoried. For waters offshore to the 200 mile limit, physics data are covered.
			4 Data set entries are cross-referenced to the corresponding catalogues. 5 Hard copies of many of the data sets are archived in Technical Records at the

5 Hard copies of many of the data sets are archived in Technical Records at the Institute of Ocean Sciences.

	Pacific Commercial Fish Catch Statistics System (CCSS)	Pacific Fisheries Licencing Database
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Catch statistics for the Pacific Region (B.C., Yukon) commercial fishery.	 Summary Description of Contents Data on vessels, fishermen and licences for fisheries on the west coast of Canada.
2b.	Purpose of the Database To monitor and manage the commercial fishery and prepare fish population reconstructions.	2b. Purpose of the Database To keep records on commercial vessels, fishermen and licences for use in licence issuance.
3a.	Name and Address of Responsible Organization Statistics, Pacific Region, Department of Fisheries and Oceans, 555 West Hasting Street, Suite 410, Vancouver, B.C., V6B 5G3.	3a. Name and Address of Responsible Organization Conservation and Protection Division, Fisheries Branch, Department of Fisheries and Oceans, 400-555 West Hastings Street, Vaccouver, P. C. VSG 583.
ЗЬ.	Contact Person(s), Address (If different from 3s), Telephone and FAX Number(s) Mr. James Bjørring (604) 666-2630	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Stephen Brownies (604) 666-2076
3c.	Access Mechanisms Through the responsible organization; also available on-line.	20 Access Mechanisms Through the techanghia accountion
4a.	Variables Included (summarized if extensive)	3c. Access mechanisms inrough the responsible organization.
	 detailed file: catch location, date; gear used; landings (day, species - number, weight of fish); processing (company, region, plant, herring disposal), effort (days fished); price, value; licence number (vessel, person) summary file: year, species, gear used; location, landings; value 	4a. Variables Included (summarized if extensive) - vessel: length, tonnage, year built, name, ID number, propulsion - fishermen: name, address, telephone, sex, birth date, Indian band number - licences: holder, date issued, history, species, gear, quota
4b.	Geographic Coverage B.C., Yukon.	4b. Geographic Coverage West coast of Canada.
4c.	Data Acquisition Method(s) Fish slips (documents completed at first point of landing of commercial fishing vessels) submitted to the Department.	4c. Data Acquisition Method(s) Licencing information.
4d.	Geographic Unit(s) of Measurement Statistical areas, individual sites for herring.	4d. Geographic Unit(s) of Measurement Not applicable.
40	Resid of Record Summary, current year and previous year /1990, 1999), detail	4e. Period of Record 1968 to present.
40.	1982 - present.	4! Update Frequency When licence is issued.
4f.	Update Frequency Summary - constant, detail - weekly.	4g. Database Hardware/Software Configuration VAX computer with INGRES relational database system.
4g.	Database Hardware/Software Configuration VAX 785 with ADABAS database management system.	4h. Output Format(s) (tables, maps, etc.) Tables.
4h.	Output Format(s) (tables, maps, etc.) Tables.	 Restrictions and Conditions Some information is confidential and/or protected under the Privacy Act; on-line access is restricted to Department of Fisheries and Oceans personnel
5.	Restrictions and Conditions Vessel and company information released at discretion of Statistics section	 Price Information There is a charge for the annual directory; other charges will depend on the request
6.	Price Information No charge for requests or on-line access.	
7.	Corresponding Printed Sources B.C. Commercial Catch Statistics, 1982 - 1987	 Corresponding Primed Sources Commercial Fishing Licence Directory (annual). Other internal reports.
8.	Languages Database and reports are in English.	8. Languages The directory and database are in English.
9.	User Aids Available User manual for data entry to summary file; system manual for database	9. User Aids Available Licencing System User's Manual (available to DFO staff only).
10	Keywords Aquatic ecosystems: Fish: Fisheries: Harvesting: Marine: Pacific	10. Keywords British Columbia; Fisheries; Fishing licences; Marine; Pacific.
		11. Additional Information
11.	Additional Information None	 Lata prior to 1981 (back to 1968) are in paper files. Data prior to 1982 but after 1968 are accessible on record-by-record basis only. This is a very large database with over 60,000 person records and about 7,500 vessel records.

	Pacific Groundfish Catch and Catch Effort Database		Pacific Hail Catch (Salmon) Database
1.	Datafile Name(s) Not applicable	1.	Datafile Neme(s) Not applicable
2a.	Summary Description of Contents Catch and effort (hours fished by gear) for catch for the domestic groundfish fishery along the coast of B.C.	2a.	Summary Description of Contents A database containing hailed catch statistics for all salmon species for the North Coast of B.C.
26.	Purpose of the Database To document catch by species, area, time, and year with effort data for in-season quota management, stock assessment, and biological	2b.	Purpose of the Database Data are used by Department personnel for salmon fishery management
3a.	research Name and Address of Responsible Organization Statistics/Sampling Unit, Groundfish Division Biological Sciences Branch Pacific Biological Station, Department of Eicherice	3a.	Name and Address of Responsible Organization 1 T.S.D., Department of Fisheries and Oceans, 555 West Hastings Street, Vancouver, B.C., V6B 5G3.
3b.	and Oceans, Nanaimo, B.C., V9R 5K6. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Rin Goruk, Department of Fisheries and Oceans, 202-417 West 2nd Ave., Prince Rupert, B.C., V8J 1G81 (604) 624-0460
3c	Mrs. Kathy Rutherford (604) 756-7171 Access Mechanisms Through Interactive Query Program with permission of	36.	Access Mechanisms Through the responsible organization
4.0	database manager, owing to confidentiality of fishing information.	4a.	Variat les Included (summarized if extensive) - total catch by salmon species
48.	catch (weight in kg) by: species		 location (management unit, statistical area) tiline period virssels by gear type
	• area • gear type • date, time	4b.	average catch per unit effort Geographic Coverage North coast of B.C.
	 effort: hours fished gear type 	4c.	Data /.cquisition Method(s) Collected by fisheries officers during in-season management of salmon commercial gill net and seine fisheries.
	number of sets	4d.	Geographic Unit(s) of Measurement Statistical areas, management units.
46	Geographic Coverage Coast of B.C.	40	Period of Record 1962 - present
40	Data Acquisition Method(s) Mandatory logbooks, sales slips, and direct observations.	41.	Update Frequency Annually.
40.	Period of Record 1956 - present	4g.	Database Hardware/Software Configuration Microcomputer with modern linked . to VAX mainframe in Vancouver or through data terminals.
41	Update Frequency Daily	4h.	Output Format(s) (tables, maps, etc.) Tables
4g.	Database Hardware/Software Configuration Custom programmed indexed flat file with direct access on VAX computers with VMS operating system.	5	Restrictions and Conditions Updating and direct access to database is restricted to management biologists.
4h.	Output Format(s) (tables, maps, etc.) Interactive query for summary data or record	6	Price Information Unknown.
Б.	select program for dumping of screened records. Restrictions and Conditions Database contains individual skipper's fishing records and	7	Corresponding Printed Sources No periodic reports prepared; occasional reports or tables prepared as required.
	confidentiality must be ensured.	8.	Languages The database is in English.
6	Price Information No charge	9	User Aids Available None
7.	Corresponding Printed Sources Overall catch records summarized in yearly reports as indicated below: Rutherford, K L. (1988). "Catch and Effort Statistics of the Canadian Groundfish Fishery on the Pacific Coast in 1987" <i>Canadian Technical Report on Fisheries</i>	10. 11.	Keywords British Columbia; Fish calch; Fisheries; Pacific; Salmon. Additional Information The database is extremely important for in-season salmon
	and Aquatic Sciences No. 1656		mana jement
8	Languages All reports are in English.		
9	User Alds Available Learnan, J. E. and J. M. Hamer (1985). "User's Guide to the Groundfish Catch Statistics Data System of the Fisheries Research Branch, Pacific Region". Canadian Technical Report on Fisheries and Aquatic Sciences No. 1395		
10	Keywords British Columbia, Fish, Fish populations, Fisheries; Groundfish; Harvesting; Pacific.		
11	Additional Information None		

		the second s
	Pacific Hake Observer Database	Pacific Native Food Fishery
1.	Datafile Name(s) Not applicable	1 Datafile Name(s) Not applicable
2a.	Summary Description of Contents Database contains biological and catch and effort data for Pacific hake and incidentally caught species.	2a. Summary Description of Contents Data on the native fishery for the Pacific region of Canada.
26.	Purpose of the Database Management of the fishery and assessment of the stock.	2b Purpose of the Database Data used in land claim settlement and fishery reconstruction.
За.	Name and Address of Responsible Organization Pacific Biological Station, Department of Fisheries and Oceans, Nanaimo, B.C., V9R 5K6.	 Name and Address of Responsible Organization Statistics, Pacific Region, Departm of Fisheries and Oceans, 555 West Hastings Street, Suite 410, Vancouver, B.C., V6B 5/
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Mark Saunders (604) 756-7154 Mr. Barry Ackerman, Offshore Division Pacific Region, Department of Fisheries and Oceans, 555 West Hastings Street, Vancouver, B.C. (604) 666-39912	3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s Ms. Lia Bijsterveld (604) 666-6501
3c	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization; also available on-line.
		4a. Variables included (summarized if extensive)
4a.	Variables included (summarized if extensive)	 species (salmon, Pacific halibut, rocklish, lingcod, pacific cod)
	 hake catch (observer, vessel estimates) 	- catch (number of fish)
	incidental species catch	- location (place name)
	 location, time, date 	- date (year, week)
	 species composition of haut 	- statistical area (29 Units)
	 salmon (numbers, weight) biological data (leasth, easy maturity exists structures) 	- Inotan band
	 biological data (length, sex, maturity, aging structures) 	- gear used
4b.	Geographic Coverage 48° - 50° N latitude, 124° - 128° W tongitude,	· Indition of lianing permit laadou
		4b. Geographic Coverage Pacific region - B.C. and Yukon.
4c.	Data Acquisition Method(s) Through observers aboard ship and directly from vessels at port.	4c. Data Acquisition Method(s) Field-based fisheries officers.
4d.	Geographic Unit(s) of Measurement Catch locations referenced by latitude, longitude.	4d. Geographic Unit(s) of Measurement Statistical areas
40.	Period of Record 1987 - present.	4e. Period of Record 1951 - present.
4f.	Update Frequency Annually	4f. Update Frequency Annually
4g.	Database Hardware/Software Configuration VAX; data are stored in ASCII files and analysed using SAS.	4g. Database Hardware/Software Configuration VAX computer with INGRES database management system.
4h.	Output Format(s) (tables, maps, etc.) Tables.	4h. Output Format(s) (tables, maps, etc.) Tables.
5.	Restrictions and Conditions The raw data are restricted to Department personnel, summaries are generally available	5. Restrictions and Conditions None.
	ourselver to an gold and gold and a change.	6. Price Information No charge for requests or on-line access.
6.	Price Information No charge.	
7.	Corresponding Printed Sources No periodic reports are planned.	7 Corresponding Printed Sources "The Indian Food Fishery in the Pacific Region: Salin Catches 1951-1984" Canadian Data Report of Fisheries and Aquatic Sciences No. 6 (1995) 1984" Canadian Data Report of Fisheries and Aquatic Sciences No. 6
0	Lemmanna The delahase is a Eastish	Annual Pacific riegion Indian Pood Pisnery Catch Statistics 1988, 1987, 1985-1986.
8.	Languages ine catabase is in English.	8. Languages Database and reports are in English.
9	VINCE AND AVENING NOTE.	0 ileer Aide Available liker manual for the native food fishery database
10	Keyworde British Columbia: Fish Fisheriae: Hake: Davitis	3. Ven Ans Available User manual for the native rubu hanery Udiabase.
10.	regression unitsh colorisma, rish, risheres, riake, riadhe.	10 Keywords British Columbia Fisheries: Harvesting: Native fishery: Salmon
11	Additional Information. The database is being transferred to the INGRES relational	to, togetara billion continues, transition, the realing, item or initiary, callion.
11.	database management system.	 Additional Information The amount and level of information provided varies for different time periods.

	Pacific Saimon Escapement Data System		Pacific Salmon Mark Recovery Program Database
1.	Datafile Name(s) Not applicable	1.	Datafi e Name(s) Release, Recovery, numerous other files.
2a.	Summary Description of Contents A database giving details of Pacific salmon runs in rivers of B.C.	2a.	Summary Description of Contents Data from a mark-recovery program for Pacific salmon on the west coast of North America.
2b.	Purpose of the Database To assess stocks and habitat for Pacific salmon.	2b.	Purpose of the Database To assess salmon stocks, evaluate hatchery programs
3a	Name and Address of Responsible Organization Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanamo, B.C., V9R 5K6.		treaty.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Louis Lapi (604) 756-7144	За.	Name and Address of Responsible Organization Biological Sciences Branch, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, 8.C., V9R 5K6.
Зс.	Access Mechanisme Through the responsible organization.	3b.	Conta:t Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Louis Lapi (604) 756-7144
4a.	Variables included (summarized if extensive)	3c.	Access Mechanisms Through the responsible organization.
	 species river observation site location date (start, peak, end of run) number of fish 	4a	Variables included (summarized if extensive) - species (chinook, coho, chum, pink, sockeye salmon; steelhead trout) - location (release, recovery) - year - second
4b.	Geographic Coverage B.C.		 ia:) code length, weight, maturity, (at release, at recovery) number tagged and number released
4c.	Data Acquisition Method(s) Annual monitoring and project specific data collected by fishenes officers in the field	4b.	Geographic Coverage West coast of North America; California to Alaska (release data); 13 C. (recovery data).
4d.	Geographic Unit(s) of Measurement About 1,500 sites monitored Period of Record 1930's - present	4c.	Data Acquisition Method(s) Fish tagged by fisheries officers; tags returned voluntarily by spo 1s fishermen, fisheries officers collect tags from commercial catches.
41.	Update Frequency Annually.	4d.	Geographic Unit(s) of Measurement Catch regions, statistical areas and subareas
49	Database Hardware/Software Configuration VAX computer with custom software.	4e.	Period of Record Release data: 1968 - present Recovery data: Canadian freshwiiter 1973 - present; Canadian saltwater 1975 - present
4h.	Output Format(s) (tables, maps, etc.) Tables.	4f.	Update Frequency Daily
D.	Resolutions and Conditions None,	4g	Database Hardware/Software Configuration MICROVAX with custom software
6.	Price information No charge for reasonably sized requests.	4h	Output Format(s) (tables, maps, etc.) Tables; customized report writer.
7.	Corresponding Printed Sources Numerous articles have been published in scientific journals and the technical and manuscript series of the Department.	5	Restrictions and Conditions None
8.	Languages Reports are in English; database is mostly numbers.	6.	Price Information No charge for reasonably sized requests.
9.	User Aids Available On-line help and the technical manuals are available.	7.	Corresponding Printed Sources Numerous publications have been released in scientific journals and in the Technical and Manuscript Report Series of the Department
10.	Keywords Aquatic ecosystems; British Columbia; Fisheries; Salmon	8	Languages Reports are in English: database is mostly numbers
11.	Additional Information There are plans to enter older historical data in the database	9.	User Aids Aveilable On-line help and technical manuals are available
		10	Keywords Aquatic ecosystems; British Columbia, Fish; Fish populations; Fisheries; Pacific; Salmon; United States
		11.	Additional Information 1. The tag code is linked to information in over 100 fields; it is one of the most

- 2
- Comprehensive fisheries databases in the world. A clatabase on fin-clipped pink and chum salmon is in preparation. There are several other related databases including the Historical Salmon Catch Darabase (commercial), and the Salmon Escapement Data System. Э

	Salmonid Enhancement Planning information Control Database (EPIC)	Sea Lions Database
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable
2a.	Summary Description of Contents A regional database containing summary cost and fish production data from all Salmonid Enhancement Program (SEP) projects.	2a Summary Description of Contents Data on the population of sea lions along the coast of B.C. and information on their diet.
26.	Purpose of the Database To facilitate planning and evaluation of SEP activities, and to estimate future catches and benefits from SEP projects.	2b. Purpose of the Database Data collected to determine the impact of sea lions on commercial fisheries in B.C.
За.	Name and Address of Responsible Organization Salmonid Enhancement Program, Program Coordination and Assessment Division, Pacific Region, Department of Fisheries and Oceans. 400-555 West Hastings Street Vancouver, B.C., V68-5G3	 Name and Address of Responsible Organization Marine Mammal Research Program, Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Sue Lehman (604) 665-2039. Mr. Gren Steer (604) 665-0115	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Database Manager (604) 756-7253
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) fish production (eggs taken, juveniles released, adults produced) economic (construction and operating costs, native and non-native employment) fishery harvest rates (commercial and sport catches of enhanced salmonids) Geographic Coverage, B.C. and Yukon	4a. Variables Included (summarized if extensive) - species (California, Steller's) - abundance - movements - diet - date and location (latitude, longitude)
4c.	Data Acquisition Method(s) Compiled from hatchery statistics and regional catch databases.	4b. Geographic Coverage B.C. 4c. Data Acquisition Method(s) Aerial counts, observations, scat analysis.
4d.	Geographic Unit(s) of Measurement Individual projects, standard fishenes statistical area.	4d. Geographic Unit(s) of Measurement Animals located by latitude, longitude.
40.	Period of Record 1976 - present (data exists back to 1969 for some pre-SEP facilities)	4e. Period of Record Varying years from 1914 to 1988. 4f. Update Frequency Continued monitoring is planned.
4f.	Update Frequency Annually.	4g. Database Hardware/Software Configuration Data are stored on magnetic tape.
4g.	Database Hardware/Software Configuration VAX 8530 using INGRES database	4h Output Format(s) (tables, maps, etc.) Tables.
4h.	management system. Output Format(s) (tables, maps, etc.) Tables, reports.	 Restrictions and Conditions Database is being checked for quality control and would not be available for viewing.
5.	Restrictions and Conditions None.	6. Price Information No charge for reasonable requests.
6.	Price Information No charge for reasonably sized requests.	7. Corresponding Printed Sources Reports available from responsible organization.
7.	Corresponding Printed Sources SEP Annual Report.	8. Languages Database is in English.
8.	Languages Database and reports are in English.	9. User Aids Available Document for internal use have been prepared and are available for viewing
9.	User Aids Available A user's manual has been prepared and can be obtained from the responsible organization's office.	 Keywords Aquatic ecosystems; Biota; British Columbia; Mammals; Marine mammals; Pacific; Sea lions; Wildlife.
10.	Keyworde British Columbia; Fisheries; Pacific; Salmon	11. Additional Information None.
11.	Additional Information None.	

FISHERIES AND OCEANS Ontario and Headquarters

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
FISH PLANT REGISTRATION DATABASE	Mr. Ross Thompson (613) 990-0156	132
FISHERIES CATCH AND EFFORT STATISTICS	Mr. Tim Hsu (613) 993-2311	132
FISHERIES LICENCING DATABASE	Mr. Tim Hsu (613) 993-2311	133
FISHERIES PRODUCTION STATISTICS	Mr. Tim Hsu (613) 993-2311	133
GREAT LAKES BIOLOGICAL TISSUE ARCHIVE	Dr. W. H. Hyatt (416) 336-4861	134
GREAT LAKES CONTAMINANTS SURVEILLANCE PROGRAM	Dr. D. M. Whittle (416) 336-4565	134
OCEAN	Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	135
PHYTOPLANKTON DYNAMICS IN THE GREAT LAKES	Dr. M. Munawar (416) 336-4867	135
SURVEY OF ATLANTIC AND PACIFIC FISHERMEN DATABASE	Mr. Kieth W. Brickley (613) 993-2264	136
SURVEY OF PACIFIC FISHERIES COSTS AND EARNINGS	Mr. Kieth W. Brickley (613) 993-2264	136
SURVEY OF SPORT FISHING DATABASE	Mr. Kieth W. Brickley (613) 993-2264	137
TIDES AND WATER LEVELS	Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	137
WAVES	Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	138

	Fish Plant Registration Database		Fisheries Catch and Effort Statistics
1.	Datefile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A national database on registered fish processing plants that carry out international or interprovincial trade in Canada.	2a	Summary Description of Contents Fish catches and fishing effort for commercial fisheries in Canada.
2b.	Purpose of the Database To maintain on inventory of plants and determine on-site inspection requirements.	2b.	Purpose of the Database To monitor harvesting activities, analyse trends and predict socio-economic trends for commercial fisheries management
3a.	Name and Address of Responsible Organization Statistics Unit, Department of Fisheries and Oceans, 11th Floor, 200 Kent Street, Ottawa, Ontario, K1A 0E6.	3a.	Name and Address of Responsible Organization Statistics Unit, Department of Fisheries and Oceans, 11th floor, 200 Kent Street, Ottawa, Ontario, K1A 0E6.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ross Thompson (613) 990-0156	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Tim Hsu (613) 993-2311
3c.	Access Mechanisms Through the responsible organization.	Зс.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) processing plant (name, location) operation type; registration type 	4a.	Variables included (summarized if extensive) catch and landings (species, weight) catch location (statistical area, NAFO unit areas, lake) effort (fishing days, number of traps, etc.)
40.	trade		- gear - prices - landing port
4c.	Data Acquisition Method(s) Annual submissions from regional offices.	4b.	Geographic Coverage Atlantic and Pacific coasts, inland provinces.
4d.	Geographic Unit(s) of Measurement Data referenced by community.	4c.	Data Acquisition Method(s) Data are collected and provided by Departmental regional
4 0 .	Period of Record 1975 - present.		offices
4f.	Update Frequency Annually	4d.	Geographic Unit(s) of Measurement Variable depending upon region.
4g.	Database Hardware/Software Configuration Variable, depending on region of origin.	40. 41	Period of Record Late 1960's - present.
4h.	Output Format(s) (tables, maps, etc.) Tables		
5.	Restrictions and Conditions Data on individual plants are not available.	49	Database Handware/Sontware Configuration Varies depending on source region.
6	Price Information Depends on request.	4h.	Output Format(s) (tables, maps, etc.) Tables.
7.	Corresponding Printed Sources Annual Statistics Review	5.	Hestrictions and Conditions Haw data are not available; summaries are available.
8.	Languages Information from Quebec is in French; other areas are in English	6.	Price Information Depends on request.
9.	User Alds Available See contact.	7.	Corresponding Printed Sources Annual - Annual Statistical Review. Monthly - Canadian Fisheries Landings.
10.	Keywords Fish, Fish plants; Fishenes.	8.	Languages All publications are bilingual; Quebec region database is in French, the rest of the database is in English.
11.	Additional Information More detailed and up-to-date information is available from the regional offices.	g.	User Aids Available See contact.
		10.	Keywords Atlantic; Fish; Fish catch; Fish populations; Fisheries; Freshwater; Marine; Pacific.

11. Additional Information None.

	Fisheries Licencing Database		Fisheries Production Statistics
1.	Datafite Name(e) Not applicable	1.	Datalile Name(s) Not applicable.
2a	Summary Description of Contents Numbers of vessels and fishermen and related licencing data for the Atlantic and Pacific fisheries of Canada.	2a.	Summery Description of Contents Production, stock volume and value of different commercial fish species and product forms in Canada
2b.	Purpose of the Database For the administration of fishermen and vessel registration, to monitor trends and predict socio-economic impacts.	26.	Purpose of the Database To monitor production and stocks of fishery products, analyze trends, predict socio-economic impacts and guide fisheries management.
3a.	Name and Address of Responsible Organization Statistics Unit, Department of Fisheries and Oceans, 11th Floor, 200 Kent Street, Ottawa, Ontario, K1A 0E6	За	Name and Address of Responsible Organization Statistics Unit, Department Fisheries and Oceans, 200 Kent Street, 11th Floor, Ottawa, Ontario, K1A 0E6.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Tim Hsu (613) 993-2311	Зb.	Contrict Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Tm Hsu (613) 993-2311
3c.	Access Mechanisms Through the responsible organization	Зс.	Access Mechanisms Through the responsible agency.
4a.	Variables included (summarized if extensive) vessels: number, home/landing port; length, tonnage; market value, gear fishermen: number; home/landing port; licence status 	4a.	Variables Included (summarized if extensive) - monthly production and stocks (weight) - species - product form (frozen, canned, smoked, salted)
4b.	Geographic Coverage Atlantic and Pacific coasts.		- annual volume and value
4c.	Data Acquisition Method(s) Data are collected and provided by Departmental regional offices.		 product form plant location (community), name
4d.	Geographic Unit(s) of Measurement Data are referenced by community	4b.	Geographic Coverage Atlantic and Pacific coasts.
40.	Period of Record Late 1970's - present.	4c	Data Acquisition Method(s) The data are collected and provided by Department region offices on the east coast and by the province of B.C. on the west coast.
4t. 4g.	Update Frequency Annually. Database Hardware/Software Configuration Varies depending upon source	4d.	Geographic Unit(s) of Measurement Data are referenced by individual plants with communities.
4h	Output Format(a) (tables, mans, etc.) Tables	40.	Period of Record Early 1970's - present.
5	Restrictions and Conditions Raw data are not available: summaries are available	4f.	Update Frequency Monthly, annually.
6.	Price Information Variable, depending upon request.	4g.	Database Hardware/Software Configuration Varies depending upon source - region.
7.	Corresponding Printed Sources Annual Statistics Review.	4h.	Output Format(s) (tables, maps, etc.) Tables.
B .	Languages Information from Quebec is in French; other areas in English.	5.	Restrictions and Conditions Raw data not available; summanes are available.
9.	User Aids Available See contact.	6.	Price Information Depends on the request size.
10.	Keywords Atlantic; Fisheries; Fishing licences; Pacific; Vessels.	7.	Corresponding Printed Sources Monthly - Canadian Fisheries Products and Inventorie Annually - Canadian Fisheries Annual Statistical Review.
11.	Additional Information None.	8.	Languages Database for Quebec is in French; other regions are in English, a publications are bilingual.
		9.	User Aids Available See contact.
		10	Keve arte Atlantic Eich Eicharies Pacific

11. Additional information None.

	Great Lakes Biological Tissue Archive		Great Lakes Contaminante Surveillance Program
			Great Lakes Containing Surveinance Program
2.	Uatafile Name(s) Not applicable.	1. 1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on analyses and storage of fish specimens from the Canadian Great Lakes held by the Department of Fisheries and Oceans.	2a. \$	Summary Description of Contents Data on contaminant levels in fish from the Canadian Great Lakes (Dntario, Erie, Huron, Superior).
26.	Purpose of the Database To maintain a record of fish tissue specimens from the Great Lakes for contaminant analysis.	2b. I	Purpose of the Database To monitor contaminant levels in fish from the Great ackes for fisheries management purposes.
За.	Name and Address of Responsible Organization Baylield Institute, Great Lakes Laboratory for Fisheries and Aquatic Sciences, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6.	3a. I L	Name and Address of Responsible Organization Bayfield Institute, Great Lake .aboratory for Fisheries and Aquatic Sciences, 667 Lakeshore Road, Burlington, Ontanc .7R 4A6
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. W. H. Hyatt. (416) 336-4861	зь. (Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. D. M. Whittle (416) 336-4565
3c.	Access Mechanisms Through the responsible agency.	Эс. /	Access Mechanisms Through the responsible agency.
4a.	Variables Included (summarized if extensive) - quantity of material - storage and analysis history - specimen detail (age, weight, sex, length, species) - collection location (latitude, longitude) and date	4a. 1	Variables Included (summarized if extensive) collection date and location (latitude, longitude) species (12 included, e.g. lake trout, smelt) size, age, sex trace organics (whole body concentration)
4 b.	Geographic Coverage Lakes Erie, Dintario, Huron, Superior.	Ab (heavy metals (whole body concentration)
4c.	Data Acquisition Method(s) Samples supplied by the Ontario government and Department of Fisheries and Oceans personnel	40	seographic coverage Accounto,ouo records nom Lakes Dinano, Ene, Huron, Superior.
4d.	Geographic Unit(s) of Measurement Individual samples referenced by latitude and longitude.	4c. [Data Acquisition Method(s) Samples supplied by the Dintario government and Department of Fisheries and Oceans personnel.
10	Derind of Becard 1977 - present	4d. (Geographic Unit(s) of Measurement Individual samples.
40. A6		4e. F	Period of Record 1977 - present.
	opulate requestly Annualy.	41. 1	Jpdate Frequency Annually.
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with custom software.	4g. [Database Hardware/Software Configuration IBM compatible microcomputer with custom software.
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, graphs.	46	Termonal Commental (Section mone ato) Tables and a
5.	Restrictions and Conditions An application for information access must be submitted.	40. V	Junpur Format(s) (tables, maps, etc.) Tables, maps, graphs.
6.	Price Information No charge for sample use.	5. F	Restrictions and Conditions Some information is sensitive; restrictions will depend or the request and are determined by the contact person.
7.	Corresponding Printed Sources A hard copy of the database is available.	6. F	Price Information No charge for data.
8.	Languages Database and documents are in English.	7. 0	Corresponding Printed Sources Biennial reports are produced by the Great Lakes Nater Quality Board of the International Joint Commission office in Windsor. Dintario (see
9.	User Aids Available Department of Fisheries and Dceans, Great Lakes Laboratory of Fisheries and Aquatic Sciences, biological tissue archive (user's manual).	1	1).
10.	Keywords Biota; Biotic response; Contaminants; Fish; Great Lakes; Tissue samples.	8. L	anguages Database and documents are in English.
11.	Additional Information Dnly samples held at the laboratory are included in the database.	9. L	Jeer Aids Available None.
		10.	Keywords Biota; Biotic response; Contaminants; Fish; Great Lakes; Residues.
		11.	Additional Information None.

	OCEAN	Phytoplankton Dynamics in the Great Lakes
1.	Datafile Name(s) Bathythermograph, Nansenbottle, Conductivity, Temperature, Depth sensor, Drifting buoys, Temperature and Salinity profiles, Daily seawater files	Datafile Name(s) Not applicable Sum mary Description of Contents Data on phytoplankton dynamics in the five
2a.	Summary Description of Contents Contains physical oceanographic observations made in Canada using various sampling instruments.	Great Lakes.
2b.	Purpose of the Database It is used to examine historical trends in oceanographic variables or in pure research on oceanographic phenomena.	warning indicators of pollution.
За	Name and Address of Responsible Organization Marine Environmental Data Service, Department of Fisheries and Oceans, 1202-200 Kent Street, Ottawa, Ontario, K1A 0E6.	 Name and Address of Hesponsible Organization Ecoloxicity Unvision, Great Lakes Region, Department of Fisheries and Oceans, 867 Lakeshore Road, Burlington, Ontario, L7R 4A6.
3Ь	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260	3b Comact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. N. Munawar (416) 336-4867
3c	Access Mechanisms Data are usually available through the contact organization	3c. Access Mechanisme Through the responsible organization.
	but in special cases are accessible by direct on-line access.	4a. Variables Included (summarized if extensive) species and location (latitude, longitude)
4a.	Variables included (summarized if extensive)	- piomass
	temperature and saknity	size composition
	· currents	- primary productivity
	 dissolved oxygen 	• эпоторнуя
		4b. Geographic Coverage Great Lakes.
4b.	Geographic Coverage In general, the area covered is 35°-90° N latitude, 40°-180° W longitude. For drifting buoy data, the coverage is global. Data are not maintained for the fresh waters of Canada.	4c. Data Acquisition Method(s) Monthly monitoring of 30-50 stations per lake for various years.
4c.	Data Acquisition Method(s) Data collected by Department regional offices, international research vessels, universities, and private industry.	4d Geographic Unit(s) of Measurement Sampling sites located by latitude and longitude.
4d	Geographic Unit(s) of Measurement Data are accessible for user-selected areas, time periods and variables. Geographic information is by latitude and longitude	4e Update Frequency Monthly, annually.
40	Period of Record Late 1800's - present; over 50% of the data are from 1945 - present	4g Datribase Hardware/Software Configuration CYBER mainframe and IBM microcomputer with custom software.
4f.	Update Frequency The longest period between updates is one month, data are normally updated as received.	4h. Output Format(s) (tables, maps, etc.) Tables, maps, graphs.
4g.	Database Herdware/Software Configuration VAX 6320 computer with FORTRAN	5. Restrictions and Conditions Department personnel have first publication rights.
	Software, data are available in ASUII fires, on uswelles and on magnetic tape.	Price internation to charge Paragenetic British Services Numerous subjections and parton parage
4h.	Ourput Format(s) (usoles, maps, etc.) Tables, maps.	Consupporting minima sources numerous publications, see contact person.
Ð.	will have a prophetary period, usually less than 2 years after data collection. During this	8. Languages Dataoase and publications are in English.
	period the data originator is the only one who has access to the data.	9. User Aids Available None.
6.	Price Information MEDS operates on a tiered Departmental cost recovery policy. Users working with MEDS in joint programs, or those in DFO are given free access. Other	 Keywords Aquatic ecosystems; Biota; Biotic response; Great Lakes; Dintario; Phy oplankton; Plankton
	direct and indirect costs as defined in the Financial Administration Act.	11 Additional Information
7	Corresponding Printed Sources None (the on-line system is very user-friendly)	 In addition to this database, some additional data on phytoplankton and zooplankton in Lake Ontario (two stations monitored weekly through the summer since 1961) are being collected by Dr. Ora, Johannson at the Bavield Institute Denartment of
8.	Languages MEDS operates in both official languages of Canada. The data files are predominantly numbers. Text is generally in the language received with the data.	Fisheries and Oceans, Burlington. 2. A book describing phytoplankton dynamics of the Great Lakes is in preparation
9.	User Aids Available MEDS maintains a user's guide of data and data products which is available upon request.	
10	Keywords Atlantic; Marine; Oceanography, Pacific.	
11.	Additional Information None.	
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	Survey of Atlantic and Pacific Fishermen Database		Survey of Pacific Fisheries Costs and Earnings
1.	Datafile Name(s) Atlantic Fishermen File, Pacific Fishermen File,	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on activities, income, education and socio-economics associated with commercial fishermen.	2a.	Summery Description of Contents A database on the economic performance of commercial Pacific fishing vessels and the viability of activity by fishery.
2b	Purpose of the Database To assess the well-being of fishermen in the ocean fisheries	2b	Purpose of the Database To assess Departmental policies and programs.
За.	Name and Address of Responsible Organization Surveys Unit, Department of Fisheries and Oceans 200 Kent St. Ottawa, Ontario, K14 0E6	За.	Name and Address of Responsible Organization Surveys Units, Department of Fisheries and Oceans, 200 Kent St., Ottawa, Ontario, K1A 0E6.
Зb.	Centact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	ЗЬ.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Kieth W. Brickley (613) 993-2264
Зс.	Access Mechanisms Through the responsible organization	Зc.	Access Mechanisms Through responsible organization.
		4.9	Variables Included (summarized if extensive)
4a.	Variables included (summarized if extensive)		- vessel owner (and ser ethnicity)
	- fishermen (are sex education income level household characteristics)		vossel estatu hu ficheru
	fishing activity by fish species		- vesser activity by history
	- activity by vessel time	L	- costs and earnings by tisnery
	- activity by vessel type		licencing
	most important species for income		- investment over 8 year period
	expenses or vessel owners		- debt load by creditor
	Other Income by source		 viability measures
	- location (community)		performance measures
			cash flow
40.	Geographic Coverage Pacific and Atlantic Oceans		residence location
4c.	Data Acquisition Method(s) Personal and telephone interviews (90-95% response) conducted by Statistics Canada.	4b.	Geographic Coverage Pacific coast of Canada.
4d.	Geographic Unit(s) of Measurement Data referenced by community	4c.	Data Acquisition Method(s) Personal interviews conducted by Statistics Canada (90% response rate).
40.	Period of Record 1984 - Atlantic. 1985 - Pacific.	4d	Geographic Unit(s) of Measurement Data referenced by coastal sub-area of residence location.
4f.	Update Frequency Every three years as of 1988.	40.	Period of Record 1985, 1988.
49.	Database Hardware/Software Configuration IBM computer with SPSS 9.0 software; data available on diskette in ASCII format or on magnetic tape	4f.	Update Frequency Every three years.
4h.	Output Format(s) (tables, maps, etc.) Tables.	49.	Database Hardware/Seftware Configuration IBM computer with SPSS 9.0 software, data in ASCII format, available on diskette or magnetic tape
5	Restrictions and Conditions None.	4h.	Output Format(s) (tables, maps, etc.) Tables.
6.	Price Information No charges for reasonably sized requests.	5.	Restrictions and Conditions Limited access to lower levels of aggregation; restricted data on company vessels.
7.	Corresponding Printed Sources Survey of Atlantic Fishermen, 1984. Survey of Pacific Fishermen, 1985.	6.	Price information No charge for reasonably sized requests.
8	Languages The database is in English; the reports are in English and French	7	Corresponding Printed Sources Costs and Earnings of the Pacific Salmon and Herring Finance (1989)
9	User Aids Available None.	8.	Languages The database is in English.
10.	Keyworde Atlantic; Fisheries; Pacific.	9	User Aids Available None
11.	Additional Information	100	
	1. Written requests are required to obtain data.	10	Keywords British Columbia; Fisheries; Pacific.
	2. Publications are available by telephoning or writing the DFO Communications or		
	Surveys Unit.	11.	Additional Information
			1. Written requests for data output are required.
			2. Publications have very limited print runs (500 copies).
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	and the second second second second second second		
	Survey of Sport Fishing Database		Tides and Water Levels
	Datalile Name(s) One for each province and territory.	1.	Datalile Name(s) Tats, Waterlevels, Constituents
a .	Summary Description of Contents A national database of detailed information on angling in each jurisdiction including catch, activity, expenditures, investments and attitudes as well as socio-economic information.	2a.	Summary Description of Contents These files contain data collected by in-situ water level gauges, and tidal predictions for the Great Lakes. St. Lawrence Seaway and coeans around Canada.
b. a.	Purpose of the Database To provide benchmark management data for assessing the resource and economic impacts. Name and Address of Responsible Organization Surveys Unit, Department of Fisheries and Oceans, 200 Kent SL, Ottawa, Ontario, K1A 0E6.	2b.	Purpose of the Database These data are used for making tidal predictions in support of the Canadian Hydrographic Service Tide Tables, supplementary requested predictions, and research into tidal phenomena. They are also used in engineering, hydro-electric power planning, ship traffic regulation, and construction design projects related to water levels.
b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Kieth W. Brickley (613) 993-2264	3a.	Name and Address of Responsible Organization Marine Environmental Data Service Department of Fisheries and Oceans, 1202-200 Kent Street, Ottawa, Ontario, K1A 0E6.
G.	Access Mechanisms Through the responsible organization.	ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260
a	Variables included (summarized if extensive) - anglers (age, sex, number, residence) and activity (number of days) - harvest (number of fish, species, weight) location - angumention (fich usuich)	Зc.	Access Mechanisms Data are usually available through the contact organization but in special cases are accessible by direct on-line access.
	 personal assessment (attitude, performance) non-resident trip details (number of trips, days, accommodation) investment, expenditures and willingness to pay 	4a.	Variables included (summarized if extensive) - vrater elevation (time series); tidal constituents
b	Geographic Coverage National, including Pacific tidal waters.	4b.	Geographic Coverage In general, the coastal areas covered by 35°-90° N latitude, 40°-130° W longitude, including the Great Lakes and St. Lawrence Seaway. Under special arrangement it is possible to examine other coastal locations in the world.
D.	Data Acquisition Method(s) Mail surveys (60-79% response rate), pre-screened populations in areas without resident licencing	4c.	Data Acquisition Method(s) Data obtained from the Canadian Hydrographic Service and from regional offices of Inland Waters, Environment Canada.
3	Geographic Unit(s) of Measurement Data referenced by a variety of units depending upon region.	4d.	Geographic Unit(s) of Measurement Data are accessible for user selected areas, time periods and variables. While data have identification numbers assigned, this is not the usual retransferiblem. Data are been dependent to be the dependent of the area in the
	Undete Frequency Every five years	40	Perind of Record Late 1800's - present: over 50% of data from 1945 to present
q	Database Hardware/Software Configuration IBM computer with SPSS 9.0	41.	Update Frequency Data are updated daily and monthly.
5	software, selected data available on diskette in ASCII format; all data stored on magnetic tape	4g.	Database Hardware/Software Configuration VAX 6320 computer with FORTRAN
h.	Output Format(s) (tables, maps, etc.) Tables.	46	Suffware, data are available in ASCI files, on diskerte and on magnetic tape.
	Restrictions and Conditions None.	411.	Comput Portnanda) (tableas, maps, etc.) 130/85, maps.
	Price information No charge for reasonably sized requests.	5.	Resolutions and conditions all data are public information.
	Corresponding Printed Sources Reports are prepared every five years for each region: Survey of Sport Fishing in (province/territory).	D.	working with MEDS in joint programs, or those in DFO are given free access. Othe government departments are charged for materials. Private sector clients pay the sum o direct and indirect costs as defined in the Financial Administration Act.
	Languages Data from Quebec are in French and the remainder in English; reports are available in English and French.	7.	Corresponding Printed Sources 1. Tide and current tables.
	User Aids Available None.		 Vater level bulletin (weekly data from specific gauges on the Great Lakes). Junnual summary and historical extremes.
U.	Keywords Angiers, Hisn, Hisnenes, Sport lisning.		4 Monthly and yearly means.
	Additional Information 1. Direct access to the database is restricted to Departmental accounts at STM systems (formerly CSG) in Ottawa.	6.	Languages MEDS operates in both official languages of Canada. The data files are predominantly numbers. Text is generally in the language received with the data.
	 A written request is required for data, costs for special runs are very high due to the size of the database. Publications are available by request in writing or by phone; the mailing list is updated 	9.	User Alds Available MEDS maintains a user's guide of data and data products which i available upon request.
	each month and salient reports are automatically sent to previous users.	10.	Keywords Freshwater, Marine; Oceanography; Tides; Water levels.
		11.	Additional Information None.

WAVES

- 1. Datafile Name(s) Not applicable.
- 2a. Summary Description of Contents Contains Canadian data collected by in-situ wave observing instrumentation and model hindcasts.
- 2b. Purpose of the Database The data are used in research, and in the design of offshore structures and ships.
- Name and Address of Responsible Organization Marine Environmental Data Service, Department of Fisheries and Oceans, 1202-200 Kent Street, Ottawa, Ontario, K1A 0E6.
- 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J. Ron Wilson (613) 990-0264 Mr. Jean Gagnon (613) 990-0260
- 3c. Access Mechanisms Data are usually available through the contact organization but in special cases are accessible by direct on-line access.

4a. Variables Included (summarized if extensive)

- water elevation (time series)
 wave spectra (non-directional, directional)
- significant wave height
- peak period
- mean direction
- 4b. Geographic Coverage The data have been collected in the area covered by 35-90° N latifude, 40°-180° W longitude. Some data are available for the Great Lakes.
- 4c. Data Acquisition Method(s) Data collected by the Department, Canada Oil and Gas Lands Administration, Environment Canada, and the U.S. National Oceanic and Atmospheric Administration.
- 4d. Geographic Unit(s) of Measurement Data are accessible for user-selected areas, time periods and variables Geographic information is by latitude and longitude.
- 4e. Period of Record Late 1960's present.
- 41. Update Frequency Data are updated soon after receipt, typically weekly.
- 4g Database Hardware/Software Configuration VAX 6320 computer with FORTRAN software; data are available in ASCII files, on diskettes and on magnetic tape.
- 4h. Output Format(s) (tables, maps, etc.) Tables, maps.
- 5. Restrictions and Conditions All data are public information.
- 6. Price Information MEDS operates on a tiered Departmental cost recovery policy. Users working with MEDS in joint programs, or those in DFO are given free access. Other government departments are charged for materials. Private sector clients pay the sum of direct and indirect costs as defined in the Financial Administration Act.
- 7. Corresponding Printed Sources None (the on-line system is very user-friendly).
- 8. Languages MEDS operates in both official languages of Canada. The data files are predominantly numbers. Text is generally in the language received with the data.
- 9. User Aids Available MEDS maintains a user's guide of data and data products which is available upon request.
- 10. Keywords Marine; Oceanography; Storms; Transportation; Waves.
- 11. Additional Information None.
FISHERIES AND OCEANS Quebec Region

Fisheries and Oceans Quebec Region Databases	Contact Name(s) and Phone Number(s)	Page
ARCTIC MARINE BIOLOGICAL OCEANOGRAPHY DATABASE	Dr. J. A. Percy (514) 457-3660	140
ARCTIC MARINE MAMMAL DATA	Dr. Tom Smith (514) 457-3660	140
FISH PLANT PRODUCTION IN QUEBEC	Ms. Louise Savage (418) 648-5935	141
FISHERIES DATABASE ON PERSONS, BOATS AND PERMITS FOR QUEBEC	Ms. Louise Savage (418) 648-5935	141
GULF OF ST. LAWRENCE COMMERCIAL FISHERIES SAMPLING DATABASE	Mr. A. Sinclair (418) 775-6643	142
GULF OF ST. LAWRENCE RESEARCH VESSEL FISHERIES SURVEYS DATABASE	Mr. A. Sinclair (418) 775-6643	142
GULF OF ST. LAWRENCE SHRIMP SURVEYS DATABASE	Mr. A. Sinclair (418) 775-6643	143
INTEGRATED INFORMATION SYSTEM FOR FISH HABITAT MANAGEMENT (IISFHM) (ST. LAWRENCE)	Mr. Louis Désilets (418) 775-6577	143
MARINE AND ANADROMOUS ARCTIC FISHES	Ms. Christiane Hudon (514) 457-3660 Mr. Rod Morin (514) 457-3660	144
QUEBEC FISHERIES CATCH, EFFORT, AND QUOTA DATABASE	Ms. Louise Savage (418) 648-5935	144

	Arctic Marine Biological Oceanography Database	Arctic Marine Mammal Data
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable
2a	Summary Description of Contents Biological oceanographic data for the Canadian Arctic with emphasis on the eastern Arctic.	2a. Summary Description of Contents Population, behaviour and contaminant data for mammals in the Canadian Arctic.
2b.	Purpose of the Database To collect basic biological oceanographic data.	2b. Purpose of the Database To monitor population dynamics of whales, seals and their predators for management ourposes.
За.	Name and Address of Responsible Organization Arctic Biological Station, Quebec Region, Department of Fisheries and Oceans, 555 St. Pierre Blvd., Ste. Anne de Bellevue, Quebec, H9X 3R4.	 Name and Address of Responsible Organization Arctic Biological Station, Department of Fisheries and Oceans, 555 St. Pierre Bird, Ste. Anne de Bollowice, Oueboo, H0X 35
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J. A. Percy (514) 457-3660	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Tom Smith. (514) 452-3660
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive)	42 Variables Included (summarized if extensive)
	- bacterial counts	 species (ring seal, beluga whale, polar bear, arctic fox, walrus)
	- phytoplankton (species, counts)	 kill site (latitude and longitude)
	- zooplankton (species, counts)	 village from which specimen obtained
	- Deminic species	- year
	 chemistry (phosphate, nitrate, silicate, particulate and dissolved carbon) physical data (temperature, depth, salinity) tides 	 specimen characteristics (age, sex, size) contaminant data
	- weather	4b. Geographic Coverage High Arctic, western Arctic, eastern Baffin Island, eastern
	- ice cover	Hudson Bay and Hudson Strait.
	· vare, time, location of sampling (latitude, longitude)	Ac Data Acquisition Mathod(s). Specimens obtained from pative hunters or by staff
4b.	Geographic Coverage Arctic Canada, with emphasis on the eastern Arctic	to be an experience mean of the state of the state of the state.
	(see 11).	 Geographic Unit(s) of Measurement Individual sample sites referenced by latitude a longitude.
4c.	Data Acquisition Method(s) Research cruises; land-based and nearshore sampling.	4e Period of Record 1964 - present
4d.	Geographic Unit(s) of Measurement Beginning and end of sampling transects	
	referenced by latitude, longitude.	4f. Update Frequency Periodically as new data are collected.
40.	Period of Record 1947 - 1990 for eastern Arctic cruises.	 Database Hardware/Software Configuration Data on magnetic tape with and IBM 360 system, IBM PC disks and paper files.
41.	Update Frequency Continually.	Ab Output Formatical (tables mana ata) Tables
4g.	Database Hardware/Software Configuration Some data on IBM microcomputer	41. Output Pormar(s) (tables, maps, etc.) Tables.
	with DBASE III PLUS software, others in paper file.	 Restrictions and Conditions None for published material up to 1977; priority for mo recent data to authors of reports in progress.
4h.	Output Format(s) (tables, maps, etc.) Tables.	
5.	Restrictions and Conditions None.	 Price Information No charge for publications; prices for data based on costs f extracting information.
6.	Price Information No charge for reports; database information charges are being determined.	 Corresponding Printed Sources Numerous scientific papers have been prepared; se contact person.
7.	Corresponding Printed Sources Numerous biological oceanography data reports published by the Department; available on microfiche from library.	8. Languages Papers are available in English with French abstracts.
8.	Languages The reports and database are in English.	9. User Aids Available None.
9.	User Aids Available None.	10. Keywords Arctic; Contaminants; Marine mammals; Population dynamics; Wildlife.
		11. Additional Information
10.	Keywords Aquatic ecosystems; Arctic; Biological oceanography; Marine.	 The organization responsible has many data collections of varying sizes. The large are those for ring seals (15,000 animals) from eastern Baffin Island and the wester
11	 A new vessel is currently under construction; investigations are confined to the nearshore areas. Formerly this Institution collected data for the entire Arctic. As of the late 1970's the Freshwater Institute in Winnipeg has been collecting data for the western Arctic while the Arctic Biological Station has collected data for James Bay, eastern Hudson Bay and the Hudson Strait. 	 Arctic (10,000 animals) and for beluga whales from the high Arctic, Hudson Bay ar Hudson Strait. These are all computerized. Data on other species and topics such as behaviour, nutrition and contaminants are in paper files. Data up to 1977 have been summarized and published. Papers are currently bein prepared with more recent data.

	Fish Plant Production in Quebec		Fisheries Database on Persons, Boats and Permits for Quebec
۱.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
a.	Summary Description of Contents Statistics on production of and employment in fish plants in Quebec	2a.	Summery Description of Contents Data on the number of fishermen, boats and permits
b.	Purpose of the Database Fisheries management, quota control.	26	Purpose of the Database Management of fisheries, control of quotas for Quebec.
la.	Name and Address of Responsible Organization Statistics and Informatics Division, Ministry of Fisheries and Oceans, Quebec Region, 901 Cap Diamant, Quebec City, Quebec, G1K 7Y7.	3a.	Name and Address of Responsible Organization Fish Habitat Management Division Department of Fisheries and Oceans, Gare Maritime Champlain, 901 Cap Diamant, Bo 15500, Quebec, Quebec, G1K 7Y7.
b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Louise Savage (418) 648-5935	36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Louise Savage (418) 648-5935
c.	Access Mechanisme Through the organization responsible by written or telephone requests.	30.	Acce: Is Mechanisms Through the organization responsible by written or telephone requests.
La	Variables Included (summarized if extensive) production, volume, value by species and type of product numbers employed 	4a	Varial xes Included (summarized if extensive) - number of fishermen - number of boats by type - number of nemnits by type
b.	Geographic Coverage Quebec	4b.	Geographic Coverage Quebec, salt water.
ic.	Data Acquisition Method(s) Collected monthly.	40.	Data Acquisition Method(s) Through the issuing of permits.
id.	Geographic Unit(s) of Measurement By community. Period of Record 1984 - to present.	4d.	Geographic Unit(s) of Measurement Community of residence, home port, port (fanding,
1	Update Frequency Monthly.	40.	Period of Record 1984 - to present
9	Database Hardware/Software Configuration HP-3000.	4f.	Update Frequency Daily
h.	Output Format(s) (tables, maps, etc.) Tables.	49	Database Hardware/Software Configuration HP-3000
j.	Restrictions and Conditions Statistics which may identify an individual boat, buyer or fisherman are confidential.	4h.	Output Format(s) (tables, maps, etc.) Tables.
	Price Information No charge for regular reports	5.	Restrictions and conditions Statistics which may identify an individual boat, buyer of fisherman are confidential.
	Corresponding Printed Sources Annual and monthly statistical reviews	6	Price information No charge for regular reports.
l.	Languages Reports are available in French.	7,	Corresponding Printed Sources Annual and monthly statistical reviews.
).	User Aids Avaitable Catalogue ol statistical reports; on-site assistance	8	Languages Reports are available in French.
0.	Keywords Atlantic; Fisheries; Quebec.	9	User / ids Available Catalogue of statistical reports; on-site assistance.
1.	Additional Information None.	10	Keywords Fisheries; Gulf of St. Lawrence; Quebec.
		11.	Additional Information None.

Fisheries and Oceans: Quebec Region

	Guif of St. Lawrence Commercial Fisheries Sampling Database	Gulf of St. Lawrence Research Vessel Fisheries Surveys Database
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Data on fish caught commercially in the northern Gulf of St. Lawrence.	2a. Summary Description of Contents Data on fish stocks in the northern Gulf of St. Lawrence.
2b .	Purpose of the Database To monitor fish stocks for management purposes.	2b. Purpose of the Database To estimate the abundance of groundfish stocks for management purposes and monitor community structure.
За.	Name and Address of Responsible Organization Fisheries Research Division, Biological Sciences Branch, Department of Fisheries and Oceans, Maurice la Montagne Institute, 850 Route de la mer, P.O. Box 1000, Mont Joli, Quebec, G5H 3Z4.	 3a Name and Address of Responsible Organization Fisheries Research Division, Biological Sciences Branch, Quebec Region, Department of Fisheries and Oceans, Maurice la Montagne Institute, 850 Route de la mer, P.O. Box 1000, Mont Joli, Quebec,
30.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. A. Sinclair (418) 775-6643	G5H 3Z4.
3c.	Access Mechanisms Through the responsible organization.	Mr. A. Sinclair (418) 775-6643
4a.	Variables included (summarized if extensive) - species (cod, herring, mackerel, shrimp, snow crab, american plaice, witch flounder, white hake, redfish, caplin) - catch location (NAFO unit areas) - number of fish measured - total weight of sample - gear used - vessel data, landing port - depth fished - fish (length, age, market category, sex, condition) - date	 3c) Access Mechanisms Through the responsible organization. 4a. Variables Included (summarized If extensive) species (american plaice, cod, redfish, turbot, etc.) total number of species total weight of each species fish (length, weight, age) date location (latitude, longitude, NAFO unit area) depth, time, water temperature
4b.	Geographic Coverage Northern Gulf of St. Lawrence.	40. Date Acceletion Method(a) Dandom summur using other travels from vacual taken turine
4c.	Data Acquisition Method(s) Samples from vessels at landing port.	a year
4d.	Geographic Unit(s) of Measurement Catch data recorded by Northwest Atlantic Fisheries Organization (NAFO) unit areas.	4d Geographic Unit(s) of Measurement Sampling locations recorded by latitude, longitude to nearest degree and Northwest Atlantic Fisheries Organization (NAFO) unit areas.
40.	Period of Record 1984 - present.	4e Period of Record January survey 1978 - present; August survey 1984 - present.
4 f.	Update Frequency As catch is brought in.	4f. Update Frequency Annually.
4g.	Database Hardware/Software Configuration VAX computer with custom software.	4g Database Hardware/Software Configuration VAX 8550 computer with custom software.
4n.	Curput Format(s) (tables, maps, etc.) Tables.	4h. Output Format(s) (tables, maps, etc.) Tables.
5.	Price Information No charge	5. Restrictions and Conditions None.
7	Corresponding Brinted Sources Internal reports are preserved. Data are used in the	6 Price Information No charge.
	preparation of Canadian Atlantic Fisheries Scientific Advisory Committee reports for each species	7 Corresponding Printed Sources Internal reports on the cruises are prepared. Data are used in the preparation of Canadian Atlantic Fisheries Scientific Advisory Committee reports for each species.
8.	Languages Most reports are in French with English abstracts.	8. Lanceusees Most reports are in French with English abstracts
9.	User Aids Available None.	Construction of the second secon
10.	Keywords Cod; Crab; Fisheries; Gulf of St. Lawrence; Marine; Quebec; Shrimp	10 Keywards Cod Fish Fisheries' Gulf of St Lawrence: Marine: Oueboo
11.	Additional Information None.	 Additional Information Mapping capabilities are being developed. It is planned to move the database to an ORACLE database management system.

	Gulf of St. Lawrence Shrimp Surveys Database		Integrated Information System for Fish Habitat Management (IISFHM) (St. Lawrence)
1.	Datafile Name(s) Not applicable.	1.	Dataile Name(s) Not applicable
2a.	Summary Description of Contents Data on shrimp stocks in the northern Gulf of St Lawrence	2.a.	Summary Description of Contents Quality and distribution of fish habitat in near- shore areas of the north shore of the Gulf of St. Lawrence and tidal St. Lawrence River
2b.	Purpose of the Database To estimate the abundance of shrimp species for fisheries management purposes.	2b.	Purpase of the Database To provide data for habitat risk assessment.
3a.	Name and Address of Responsible Organization Fisheries Research Division, Biological Sciences Branch, Department of Fisheries and Oceans, Maurice la Montagne Institute, 850 Route de la mer. P.O. Box 1000, Mont Joli, Quebec, G5H 3Z4.	За.	Name and Address of Responsible Organization Fish Habitat Management Division Department of Fisheries and Oceans, Gare Maritime Champlain, 901 Cap Diamant, Box 15500, Quebec, Quebec, G1K 7Y7.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. A Sinclair (418) 775-6643	3b.	Centrict Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Louis Désilets (418) 775-6577
3c.	Access Mechanisms Through the responsible organization	3с.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - species - weight of each species - total numbers - date - location (latitude, longitude, NAFO unit area) - depth - water temperature	4a	Variables Included (summarized if extensive) habitat use (spawning, rearing, migration) physical, chemical data (temperature, salinity, fittoral erosion, depth) s secies (cod, herring, redfish, mussels, smelt, tom cod, flounder, lobster, shrimp) physical, chemical preferences Iccation (latitude, longitude) information sources
4b.	- gear used Geographic Coverage Northern Gulf of St. Lawrence.	46.	Geographic Coverage Near-shore Gulf of St. Lawrence, tidal St. Lawrence River, Baie ce Chaleur
4c.	Data Acquisition Method(s) Tows made at randomly located stations in September	4c.	Data Acquisition Method(s) Literature survey, fishermen, projects conducted by the Institu e, Marine Environment Data Service (Department of Fisheries and Oceans), Habitat
4d.	Geographic Unit(s) of Measurement Sampling locations referenced by latitude, longitude to nearest degree and Northwest Atlantic Fisheries. Organization (NAFO) unit area	4d	Monifering.
40.	Period of Record 1982 - present.	4e.	Period of Record 1984 - present.
41.	Update Frequency Annually.	4f.	Update Frequency Annual.
4g.	Database Hardware/Software Configuration VAX 8550 computer with custom software.	4g.	Database Hardware/Software Configuration IBM microcomputer with AUTOCAD, SPAN3, OS/2, ORACLE, EDIBASE.
4h.	Output Format(s) (tables, maps, etc.) Tables	4h	Output Format(s) (tables, maps, etc.) Maps, graph, tables
5.	Restrictions and Conditions None.	5.	Restrictions and Conditions Single user.
6.	Price Information No charge.	6	Price Information No charge.
7.	Corresponding Printed Sources Internal cruise reports are prepared. Data are used in the preparation of a Canadian Atlantic Fisheries Scientific Advisory Committee report.	7.	Correxponding Printed Sources Departmental reports outlining methods and maps, surveys and data available.
8.	Languages Most reports are in French with English abstracts.	8.	Languages Database is in French.
9.	User Alds Available None	9	User Aids Available None.
10.	Keywords Fisheries; Gulf of St. Lawrence; Marine, Quebec; Shrimp.	10.	Keyworde Coastal zone; Fish habitat; Fisheries; Gulf of St. Lawrence; Marine ecosysiems; Quebec; Risk assessment; St. Lawrence River
11.	Additional Information None.	11.	 Additic nel Information 1. This database is not fully operational. Mapped data and recent information are being ad ded. 2. See: Vigneault, Yvan. "An Integrated Information System for Fish Habitat Management (IE:FM) in Quebec: Status of System After the First Phase of Implementation". Canadian Technical Report on Fisheries and Aquatic Sciences. No. 1744E.

Fisheries and Oceans: Quebec Region

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	Marine and Anadromous Arctic Fishes		Quebec Fisheries Catch, Effort, and Quota Database
1.	Detafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Biological data on marine and anadromous fish in the Canadian Arctic.	2a.	Summary Description of Contents Data on landings (quantity, value) by species, by boat and fishing effort.
Sp.	Purpose of the Database To provide basic biological data on fish.	26.	Purpose of the Database Fisheries management, quota controls.
3a.	Name and Address of Responsible Organization Arctic Biological Station, Quebec Region, Department of Fisheries and Oceans, 555 St. Pierre Blvd., Ste. Anne de Bellevue, Quebec, H9X 3R4.	За.	Name and Address of Responsible Organization Statistics and Informatics Division, Ministry of Fisheries and Oceans, Quebec Region, 901 Cap Diamant, Quebec City, Quebec, G1K 7Y7.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Christiane Hudon (514) 457-3660 Mr. Rod Morin (514) 457-3660	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Louise Savage (418) 648-5935
30.	Access Mechanisms Through the responsible organization.	30.	Access Mechanisms Through the organization responsible by written or telephone requests.
4a.	Variables Included (summarized if extensive) - species (Arctic char, whitefishes, brook trout, Atlantic salmon, Greenland cod, sculpins) - catch (number/weight of fish per unit effort) - fish density	4a.	Variables Included (summarized if extensive) - landings (value, volume, by boat, species) - fishing effort (unit of effort defined by the gear used, number of days at sea, etc.)
	 biology (length, weight, age, sex, fecundity) sampling methods (gear) 	4b.	Geographic Coverage Quebec - marine waters from a point east of ile d'Orléans to the Gulf of St. Lawrence
	 location (latitude, longitude), date, time of sample hydrographic data (water temperature, salinity, conductivity, currents) 	4c.	Data Acquisition Method(s) All landings must be recorded and registered through a sales recent. For rentain lisberies a log is maintained
46.	Geographic Coverage Arctic Canada, with emphasis on the eastern Arctic (see 11).	4d.	Geographic Unit(s) of Measurement Ports.
4c.	Data Acquisition Method(s) Research vessel cruises.	40.	Period of Record 1984 - to date.
4d.	Geographic Unit(s) of Measurement Sampling stations referenced by latitude, longitude, in-house numbering system	41.	Update Frequency Daily.
40.	Period of Record Late 1950's - late 1970's for entire Arctic: 1973-1976 and 1985 -	4g.	Database Hardware/Software Configuration HP-3000.
	present for eastern Arctic.	4h.	Output Format(s) (tables, maps, etc.) Tables in reports.
41.	Update Frequency Continuously	5.	Restrictions and Conditions Data which could identify an individual operator, boat or purchaser are confidential.
49.	Database Hardware/Software Configuration IBM microcomputer with DBASE III+ and LOTUS 1-2-3 software	6.	Price Information No charge for the regular reports.
4h.	Output Format(s) (tables, maps, etc.) Tables.	7	Corresponding Printed Sources Annual Statistical Review. Monthly Statistical Review.
5.	Restrictions and Conditions None.	8.	Languages Reports are in French.
6.	Price Information To be determined.	9.	User Aids Available Catalogue of Statistical Reports; on-site assistance.
7.	Corresponding Printed Sources The data are published mainly in scientific journals.	10.	Keywords Fisheries, Gutf of St. Lawrence; Quebec
8.	Languages The database and articles are in English.	11.	Additional Information None.
9.	User Aids Available Mimeographed user's manual.		
10.	Keywords Anadromous, Aquatic ecosystems; Arctic; Fish; Marine; Salmon.		
11.	Additional Information 1. Formerly this Institution collected data for the entire Arctic. As of the late 1970's, the		

 Formerry this institution collected data for the entire Arctic. As or the late 1970's, the Freshwater Institute in Winnipeg has been collecting data for the western Arctic while the Arctic Biological Station has collected data for James Bay, eastern Hudson Bay and the Hudson Strait.

2. Many of the specimen samples are sent to the Canadian Museum of Nature in Ottawa.

FISHERIES AND OCEANS Scotia-Fundy Region

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
ATLANTIC AND ARCTIC BIOLOGICAL OCEANOGRAPHY DATABASE	Dr. T. Platt (902) 426-3793	146
ATLANTIC SATELLITE IMAGERY DATABASE (NOAA AVHRR DATA)	Ms. Linda Payzant (902) 426-8232 Dr. B.J. Topliss (902) 426-8232	146
BAY OF FUNDY INVERTEBRATE FISHERY	Dr. Peter Lawton (506) 529-8854 Dr. Shawn Robinson (506) 529-8854 Mr. Gerald Fawkes (506) 529-8854	147
BAY OF FUNDY LARVAL HERRING DATABASE	Dr. Robert L. Stephenson (506) 529-8854	147
CHEMICAL CHARACTERISTICS OF NOVA SCOTIA RIVERS	Dr. Walton Watt (902) 426-3606 Dr. Gil Farmer (902) 426-7819 Mr. Wesley White (902) 426-3576	148
LONG TERM OCEAN TEMPERATURE MONITORING (CMCTD) DATABASE	Mr. Doug Gregory (902) 426-8931	148
MARINE CHEMISTRY DATABASE	Dr. J.M. Bewers (902) 426-7079	149
OCEAN CURRENT (CMCTD) DATABASE	Mr. Doug Gregory (902) 426-8931	149
OCEAN TEMPERATURE AND SALINITY PROFILES (CMCTD) DATABASE	Mr. Doug Gregory (902) 426-8931	150
PCB CONTENT OF PLANKTON IN NOVA SCOTIA	Mr. Gareth Harding (902) 426-2692	150
PHYTOPLANKTON MONITORING PROGRAM, ATLANTIC ZONE	Dr. Don Gordon (902) 426-3278	151
SCOTIA-FUNDY COMMERCIAL HERRING DATABASE	Dr. Robert L. Stephenson (506) 529-8854	151
SCOTIA-FUNDY GROUNDFISH SAMPLING DATABASE	Mr. Kees Zwanenburg (902) 426-3310	152
SCOTIA-FUNDY GROUNDFISH SURVEYS	Mr. S. Gavaris (506) 529-8854	152
SCOTIA-FUNDY MARINE MAMMALS DATABASE	Dr. Don W. Bowen (902) 426-8909	153
SCOTIA-FUNDY OBSERVER PROGRAM (MAROD) DATABASE	Dr. Don E. Waldron (902) 426-2937	153
SCOTIA-FUNDY STREAM INVENTORY	Mr. R. Sweeney (902) 426-2253	154
SCOTIAN SHELF ICHTHYOPLANKTON DATABASE (SSIP)	Mr. R. N. O'Boyle (902) 426-4890	154

 Datafile Name(s) Not applicable. Datafile Name(s) Not applicable. Summary Description of Contents Data on physical occasingphy, private production, motion connectations in the Nothwest Allance and accounting in the Nothwest Allance and accounting of Database To supply cosaningraphic data to researchers. Puppes of the Database To montor charges in biological production in the Scham and Address of Responsible Organization. Biological Descingtion of Database Accounting of Database Accounting of Database Accounting and Database Not Schamber (s) Not applicable. Context Prevent(s), Address of Responsible Organization. Biological Descingtophy Database (s) Responsible Organization. Biological Descingtion (s) Production (s) Nova Scient, 2027 Address of Responsible Organization. Context Prevent(s), Address of Responsible Organization. Biological Descingtophy Database (s) Responsible Organization. Context Prevent(s), Address of Responsible Organization. Context Prevent(s), Address of Responsible Organization. Access Machaniane Through the responsible organization. Veriable Included (summarized if assessed) in ministical distance (s) Nova Scient, 2027 Address (s) Responsible Organization. Veriable Included (summarized if assessed) in ministical distance (s) Nova Scient, 2027 Address (s) Responsible Organization. Veriable Included (summarized if assessed) in ministical distance (s) Nova Scient, 2027 Address (s) Responsible Organization. Organization Responsible Organization. Veriable Included (s) Final Intervent (s) Nova Scient, 2027 Address (s) Responsible Organization. Veriable Included (s) Final Intervent (s) Nova Scient, 2027 Address (s) Responsible Organization. Desponsible Organization. Desponsible Organization. Desponsible Organization. Veriable Included (s) Final Intervent		Atlantic and Arctic Biological Oceanography Database	Atlantic Satellite Imagery Database (NOAA AVHRR Data)
 Summary Description of Contents Table on physical cosargraphy: primary production what could a sature Active cosard and the balances To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. To monitor thanges in biological production in the costant due to the balances. The provide the costant due to the balances. To make the theorem of Fahances and Dostanting Costant (2003). Address of Hesponsible Organization. Christ Hermanization Hermanization Hermanization. Christ Hermanization Hermanization Hermanization. Period of Becord 1967 - present. Geographic Correntations Period of Becord 1967 - present. Update Frequency When need at an available. Debalane Herdwers/Bohree Configuration Maintrame computer using custom shafts. The production what are available. Defalance in Conditions None. Herd def Becord 1967 - present. Update Frequency When need at are available. Debalane Herdwers/Bohree Configuration Maintrame computer using custom shafts. The production what are available. Defalance Information to thing. Defalance Information A land publications in the Department series and continue in a custom series and c	1_	Datafile Name(s) Not applicable	1 Datafile Neme(s) Not applicable.
 Purpose of the Database. To montor changes in biological production in the centre of the Database. To montor changes in biological production in the centre of the Database. To supply consumption data to researchers. Nerne and Address of Responsible Organization Electric Institute of Desanography. PC Biological Desanogr	2a.	Summary Description of Contents Data on physical oceanography, primary production, nutrient concentrations and zooplankton in the Northwest Atlantic and eastern Arctic Oceans.	2a Summary Description of Contents Satellite imagery data for the Atlantic coast of Canada north to the southern tip of Baffin Island.
 Beamment of Fishenes and Oceans, P.O. Box 1006, Datmouth, Nova Scotta, B27 422 Department of Fishenes and Oceans, P.O. Box 1006, Datmouth, Nova Scotta, B27 423 Department of Fishenes and Oceans, P.O. Box 1006, Datmouth, Nova Scotta, B27 424 Department of Fishenes and Oceans, P.O. Box 1006, Datmouth, Nova Scotta, B27 424 Dert T.P.Hitt, Nora Scotta, B27 441. Center Prevon(s, Address (if different from 3a), Telephone and FAX Number(s) Dr. T.P.Hitt, 1002 (480-4322) Access Michaelama, Through the responsible organization Verlables Included (summarized if extensive) ontrong in Cook 1006, Datmouth, Nova Scotta, B27 442 Access Michaelama, Through the responsible organization Verlables Included (summarized if extensive) ontrong in phosphate, sticate, intrated; (4) thermal infrared. (5) thermal infrared. Coorporting Cookentrations ontrong in phosphate, sticate, intrated; (4) operation legitic coverage Active Address (if Mesurement 1 km² previous covering 2,000 km east west am 3,000 km north-outh. Detables Information (poeles, tomas) otrong intrated (if Mesurement Stes referenced by latitude and longitude Period of Record 1967 - prevent. Detables Information Maintrane computer using custom software. Detables Information None Detables references Annual publications in the Department series. User Alds Available None. Detables information None. Detables information None Scotta and Addres Scotta and Addres Scotta and Addres Scotta and Addres Scotta B27 442 	2b.	Purpose of the Database To monitor changes in biological production in the oceans due to changes in carbon dioxide and nutrient levels.	2b. Purpose of the Database To supply oceanographic data to researchers. 3a. Name and Address of Responsible Organization Bedford Institute of Oceanography
 Detartment of Enhances and Oceans, Berlow Institute of Oceanography, P.O. Box 1006. So. Contact Person(1). Address (If different from 3a), Telephone and FAX Number(1) Dr. T. Platt. (902) 426-8232 Dr. J. Platt. (902) 426-8232	За.	Name and Address of Responsible Organization Biological Oceanography Division,	Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
 Contact Person(s), Address (I different from 3a), Telephone and FAX Number(s) Dr. T. Pitt (90) 465-3735 Access Mechanisms. Through the responsible organization. Veriables Included (summarized II extensive) primary production primary production 		Department of Fisheries and Oceans, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A1.	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Linda Payzant (902) 426-8232 Dr. B.J. Topliss (902) 426-8232
 Access Mechanisms Through the responsible organization. Veriables Included (summarized if extensive) primary production primary primary production primary primary preduction primary primary primary primary primary primar	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. T. Platt. (902) 426-3793	3c. Access Mechanisms Through the responsible organization.
 Variables Incluéed (summarized if extensive) primaty production primaty production chicrophyli concentrations chicrophyli concentrations comparation (species, bornass) particulate organic concentrations designable difference of species designable difference of species designable difference of species primed species primed species primed species primed species primed species destructions and Conditions None destructions and Conditions None primed species primed species primed species price information Nocharg	3c.	Access Mechanisms Through the responsible organization.	 4a. Variables Included (summarized if extensive) channels 1 through 5 monitored (1) visible; (2) visible; (3) near infrared; (4) thermal infrared; (5) thermal infrared.
 chlorophyl concentrations inorgen untitents (piosphale, silcate, nirate) inordent light coophatton (specific, biomass) cothorance light particulate organic concentrations coophatton (specific, biomass) submarine light particulate organic concentrations degraphic Unit(a) of Measurement 3 km² pixels covering 2.000 km east west an 3,000 km north south. Period of Record 1984 - present. Update Frequency Daily. Geographic Unit(a) of Measurement Sites referenced by lattude and longitude Period of Record 1987 - present. Update Frequency Daily. Geographic Unit(a) of Measurement Sites referenced by lattude and longitude Period of Record 1967 - present. Update Frequency When new data are available. Database Hardware/Software Configuration Mainframe computer using custom software. Output Format(a) (tables, maps, etc.). Tables, maps, plots. Restrictions and Conditions None. Price Information No charge. Corresponding Printed Sources Annual publications in the Department's series. Canadian Data Report of Fishenies and Aquatic Scences. Keywords Aquatic Acquatic locosystems, Arctic, Atlantic; Biota, Maine; Cocanography, Primary production. Keywords Aquatic accosystems, Arctic, Atlantic; Biota, Maine; Cocanography, Primary production. Keywords Aquatic accosystems, Arctic, Atlantic; Biota, Maine; Cocanography, Primary production. Additional Information A list of publications is available from the responsibil context as a attable indext as a attable from the responsibil regions. 	4a.	Variables Included (summarized if extensive) primary production	4b. Geographic Coverage Approximately 40°-65° N latitude 40°-80° W longitude
 incluent ight incluent ight		 chlorophyll concentrations inorganic nutrients (phosphate, silicate, nitrate) 	4c. Data Acquisition Method(s) Dne image is obtained per day.
 submarine light patriculate organic concentrations Geographic Coverage Northwest Atlantic and eastern Arctic oceans. Geographic Coverage Northwest Atlantic and eastern Arctic oceans. Data Acquisition Method(s) Field monitoring from ships or through the ce. Geographic Unit(s) of Messurement. Sites referenced by lattude and longitude Period of Record 1967 - present. Update Frequency Daily: Geographic Unit(s) of Messurement. Sites referenced by lattude and longitude Period of Record 1967 - present. Update Frequency When new data are available. Getabace Hardware/Software Configuration Mainframe computer using custom software. Getabace Hardware/Software Configuration Mainframe computer using custom software. Geresponding Printed Sources. Annual publications in the Department's sense. Canadian Data Report of Fisheries and Aquate Scences. Geresponding Data Report of Fisheries and Aquate Scences. This database exists as a tool for researchers and is not set up to respond to public requests. Schware is being develop		 incident light zooplankton (species, biomass) CTD profiles 	4d. Geographic Unit(s) of Measurement 1 km ² pixels covering 2,000 km east-west and 3,000 km north-south.
 4. Conservation for the second problem attempts of the second problem attempt second		submarine light particulate organic concentrations minimum light in the second s	4e. Period of Record 1984 - present.
 48. Coordination Method(a) Field monitoring from ships or through the ice. 44. Deta Acquisition Method(a) Field monitoring from ships or through the ice. 44. Geographic Unit(a) of Measurement Sites referenced by latitude and longitude. 44. Period of Record 1967 - present. 44. Update Frequency When new data are available. 45. Restrictions and Conditions None. 46. Price Information Cost recovery. 47. Corresponding Printed Sources None. 48. Languages The database is in English, the reports are in English with French abstracts. 49. User Aids Available None. 40. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota: Marine; Oceanography. Primary production. 41. Additional Information A list of publications is available from the responsible organization. 42. Corresponding Information A list of publications is available from the responsible organization. 43. Additional Information A list of publications is available from the responsible organization. 44. Detabase Hardware/Software Configuration A list of publications is available from the responsible organization. 45. Restrictions and Conditions is available from the responsible organization. 46. Detabase Hardware/Software Configuration A list of publications is available from the responsible organization. 		· microbial concentrations	4f. Update Frequency Daily.
 Geographic Unit(s) of Measurement Sites referenced by latitude and longitude Period of Record 1967 - present. Update Frequency When new data are available. Restrictions and Conditions None. Price Information Cost recovery. Corresponding Printed Sources Annual publications in the Department's series. Restrictions and Conditions None. User Aids Available None. User Aids Available None. User Aids Available None. Mervords Aquatic coosystems; Arctic; Atlantic; Biota, Marine; Cocanography. Primary production. Additional Information A list of publications is available from the responsible organization. 	4b. 4c.	Geographic Coverage Northwest Atlantic and eastern Arctic oceans. Data Acquisition Method(s) Field monitoring from ships or through the ice	4g Database Hardware/Software Configuration Mainframe computer with data stored on 9-track magnetic tape, satellite image analysis software is required for reading.
 4e. Period of Record 1967 - present. 4f. Update Frequency When new data are available. 5. Restrictions and Conditions. None. 6. Price Information No charge. 7. Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fishenes and Aquatic Sciences. 8. Languages The database is in English; the reports are in English with French abstracts. 9. User Aids Available None. 10. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. 11. Additional Information A list of publications is available from the responsible organization. 	4d.	Geographic Unit(s) of Measurement Sites referenced by latitude and longitude.	4h. Output Format(s) (tables, maps, etc.) Users must do their own processing to produce
 4. Update Frequency When new data are available. 4. Database Hardware/Software Configuration Mainframe computer using custom software. 4. Output Format(s) (tables, maps, etc.) Tables, maps, plots. 5. Restrictions and Conditions None. 6. Price Information No charge. 7. Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences. 8. Languages The database is in English; the reports are in English with French abstracts. 9. User Aids Available None. 10. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. 11. Additional Information A list of publications is available from the responsible organization. 	4 0.	Period of Record 1967 - present.	Culpuis, columed maps and slots can be made.
 49. Database Hardware/Software Configuration Mainframe computer using custom software. 6 Price Information Cost recovery. 7 Cerresponding Printed Sources None. 8. Languages The database is mainly numbers. 9. User Alda Available NOAA Polar Orbiter Data Users Guide. 10. Keywords Aquatic Sciences. 11. Additional Information A list of publications is available from the responsible organization. 11. Additional Information A list of publications is available from the responsible organization. 6 Price Information Cost recovery. 7 Cerresponding Printed Sources None. 8 Languages The database is mainly numbers. 9 User Alda Available NOAA Polar Orbiter Data Users Guide. 10. Keywords Atlantic; Remote sensing, Satellite imagery, Oceanography. 11. Additional Information A list of publications is available from the responsible organization. 	41.	Update Frequency When new data are available.	
 software. Curresponding Printed Sources None. Curresponding Printed Sources None. Languages The database is mainly numbers. User Aids Available None. Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences. Languages The database is in English; the reports are in English with French abstracts. User Aids Available None. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. Additional Information A list of publications is available from the responsible organization. Corresponding Information A list of publications is available from the responsible 	4 g.	Database Hardware/Software Configuration Mainframe computer using custom	6 Price information Cost recovery.
 4h. Output Format(a) (tables, maps, etc.) Tables, maps, plots. 8. Languages The database is mainly numbers. 9. User Aids Available NOAA Polar Orbiter Data Users Guide. 6. Price Information No charge. 7. Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences. 8. Languages The database is in English; the reports are in English with French abstracts. 9. User Aids Available None. 10. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. 11. Additional Information A list of publications is available from the responsible organization. 		software.	7. Cerresponding Printed Sources None.
 Restrictions and Conditions None. User Aids Available NOAA Polar Orbiter Data Users Guide. Price Information No charge. Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences. Languages The database is in English; the reports are in English with French abstracts. User Aids Available None. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. Additional Information A list of publications is available from the responsible organization. 	4h.	Output Format(s) (tables, maps, etc.) Tables, maps, plots.	8. Languages The database is mainly numbers.
 6. Price Information No charge. 7. Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences. 8. Languages The database is in English; the reports are in English with French abstracts. 9. User Aids Available None. 10. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota: Marine; Oceanography: Primary production. 11. Additional Information A list of publications is available from the responsible organization. 10. Keywords Atlantic; Remote sensing, Satellite imagery; Oceanography. 11. Additional Information A list of publications is available from the responsible 	5.	Restrictions and Conditions None.	9. User Alde Available NOAA Polar Orbiter Data Users Guide.
 Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences. Languages The database is in English; the reports are in English with French abstracts. User Aids Available None. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. Additional Information A list of publications is available from the responsible organization. 	6.	Price Information No charge.	10. Keywords Atlantic; Remote sensing, Satellite imagery; Oceanography.
 2. Software is being developed to conduct ice tracking studies. 3. User Aids Available None. 4. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota: Marine; Oceanography; Primary production. 4. Additional Information A list of publications is available from the responsible organization. 2. Software is being developed to conduct ice tracking studies. 3. This database exists as a tool for researchers and is not set up to respond to public requests. 3. This database exists as a tool for researchers and is not set up to respond to public requests. 4. Additional Information A list of publications is available from the responsible organization. 	7.	Corresponding Printed Sources Annual publications in the Department's series, Canadian Data Report of Fisheries and Aquatic Sciences.	11. Additional Information 1. Data are currently analyzed to produce sea surface temperature.
 9. User Aids Available None. 10. Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. 11. Additional Information A list of publications is available from the responsible organization. 	8.	Languages The database is in English; the reports are in English with French abstracts.	 Software is being developed to conduct ice tracking studies. This database exists as a tool for researchers and is not set up to respond to public requests.
 Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production. Additional Information A list of publications is available from the responsible organization. 	9.	User Aids Available None.	Taquasis.
11. Additional Information A list of publications is available from the responsible organization.	10.	Keywords Aquatic ecosystems; Arctic; Atlantic; Biota; Marine; Oceanography; Primary production.	
	11.	Additional Information A list of publications is available from the responsible organization.	

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	Bay of Fundy Invertebrate Fishery		Bay of Fundy Larval Herring Database
1.	Datafile Name(s) Lobster fishing areas 35, 36, 38; Clams	1.1	Datarile Name(s) Not applicable
2a	Summary Description of Contents Data on catch and effort for the clam and lobster fisheries in the Bay of Fundy.	2a.	Summery Description of Contents Data on the abundance of larval herring and other zooplankton in the Bay of Fundy and eastern Gulf of Maine region.
2Ь	Purpose of the Database To monitor the commercial invertebrate fisheries for management purposes.	26.	Purpose of the Database Stock assessment and fisheries management.
3a.	Name and Address of Responsible Organization Invertebrate Fisheries Section, Aquaculture and Invertebrate Fisheries, Biological Sciences Branch, Department of Fisheries and Oceans, St. Andrews, New Brunswick EOG 2X0	За	Name and Address of Responsible Organization Manne Fish Division, Biologic Sciences Branch, Scotia-Fundy Region, Department of Fishenes and Oceans, St. Andrew Biological Station, St. Andrew's, New Brunswick, EOG 2X0
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Peter Lawton. (506) 529-8854 Dr. Shawn Robinson. (506) 529-8854	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Dr. Robert L. Stephenson (506) 529-8854 FAX: (506) 529-4274
	Mr Gerald Fawkes (506) 529-8854 FAX: (506) 529-4274	3c.	Access Mechanisms Through the responsible organization.
3c.	Access Mechanisms Through responsible organization.	4a.	Variables Included (summarized if extensive) - number of larval herring
	 lobster (sex, molt stage, egg condition, parasites, carapace length): water depth; water temperature, catch location (latitude, longitude, LORAN C 		 volume of water litered tumperature (surface, bottom) safinity
	 bearings); port (home port, port of vessel registry), number of traps clams: number of diggers; catch per digger, kg/tide; size frequency; location (UTM) 		 relative number of zooplankton by broad taxonomic group
lb.	Geographic Coverage Bay of Fundy.	4b.	Geographic Coverage Bay of Fundy and eastern Gulf of Maine.
le.	Data Acculation Method(a) Lobster data collected by Department permanel onbeard	4c	Data Acquisition Method(s) Research vessel cruise using plankton gear.
	vessels, clam data collected through monthly aerial surveys and interviews with fishermen.	4d	Geographic Unit(s) of Measurement Latitude and longitude on a systematic grid.
ld.	Geographic Unit(s) of Measurement Lobster - latitude, longitude, LORAN C bearing; clams - 200 x 200 m blocks.	40.	Period of Record 1972 - present
6.	Period of Record Lobster: 1960's - present: Clams: 1988 - present	4f.	Update Frequency Annually in the fall.
lf.	Update Frequency Annually	49.	Database Hardware/Software Configuration VAX 6210 with custom software.
la	Determent Harriware Cafference Cardinemation Labolas data an VAV some to with	4h.	Output Format(s) (tables, maps, etc.) User defined.
.a.	custom and SPSS software, clam data on VAX computer with ORACLE database management system and IBM microcomputer with MICROSOFT EXCEL software.	5	Restrictions and Conditions Contact person in 3b.
.h.	Output Format(s) (tables, maps, etc.) Tables	6.	Price Information No charge.
	Restrictions and Conditions None: approval from contact required	7.	Corresponding Printed Sources None
	Price Information No charge for reasonably stred requests	8.	Languages Sequential file.
	Company days of reasonauty sized requests.	9.	User Alds Available None.
	Corrosponding Printed Sources Documents are prepared annually for lobster.	10	Keywords Atlantic; Bay of Fundy; Fish; Fisheries; Herring; Plankton; Zooplankton
	Languages Uatabase is mainly numbers.	11.	Additional Information Occasional larval and inventile surveys are correct out at other
	User Aids Available Port codes.		times of the year.
0.	Keywords Atlantic, Bay of Fundy; Clams; Fisheries, Invertebrates, Lobster; Shellfish,		
1.	Additional information		

2. In the future, a sea urchin database may be developed.

1_		
	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Water quality data for major tributaries of rivers supporting populations of Atlantic salmon in Nova Scotia.	2a. Summary Description of Contents Time series of temperature data for nearshore areas of the east coast of Cariada.
2b.	Purpose of the Database To monitor water quality, assess its impacts on the Atlantic salmon fishery and determine stocking locations.	2b Purpose of the Database To obtain temperature data for use in oceanographic research, climate monitoring and aquaculture.
За.	Name and Address of Responsible Organization Freshwater and Anadramous Division, Biological Sciences Branch, Department of Fisheries and Oceans, P.O. Box 550, Halifax, Nova Sortia, B31,257	3a. Name and Address of Responsible Organization Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Walton Watt (902) 426-3606 Dr. Gil Farmer (902) 426-7819	3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Doug Gregory (902) 426-8931
	Mr. Wesley White (902) 426-3576	3c. Access Mechanisms Through the responsible organization.
3c.	Access Mechanisms Data available on diskette from Inland Waters Directorate, Environment Canada, Ottawa.	4a. Variables Included (summarized if extensive) - temperature (sampled at 4 hr. intervals)
4a.	Variables Included (summarized if extensive)	4b. Geographic Coverage East coast of Canada.
	 flow total hardness 	4c. Data Acquisition Method(s) Continuous recording thermographs moored for six months up to half a mile offshore are returned to the Department by fishermen.
	special conductivity apparent colour colour colour	4d. Geographic Unit(e) of Measurement Sampling sites referenced by latitude and longitude
	- pH - total alkalinity	4e. Period of Record 1978 - present.
4b.	Geographic Coverage Approximately 60-80 rivers, mainly in Nova Scotia and some in New Brunswick.	41. Update Frequency Annually. 49. Database Hardware/Software Configuration Mainframe computer using
4c.	Data Acquisition Method(s) Water samples collected from major salmon rivers and tributaries.	FORTRAN and PASCAL software; data available in ASCII files on diskette or magnetic lape
4d	Geographic Unit(s) of Measurement Individual sample sites.	4h Output Format(s) (tables, maps, etc.) Tables, graphs.
40.	Period of Record 1982-1985.	5. Restrictions and Conditions None.
41.	Update Frequency No plans to update database	6. Price Information \$25/hour retrieval costs to provide data (typical charge less then \$50).
4g.	Database Hardware/Software Configuration Data available in LOTUS format.	 Corresponding Printed Sources Long Term Temperature Monitoring Program - Annua Data Report
4h.	Output Format(s) (tables, maps, etc.) Tables.	8. Languages The database is mostly numbers, the report is in English.
5.	Restrictions and Conditions None.	9. User Aids Available BIO Moored Thermograph Data Inventory.
6.	Price Information No charge.	10. Keywords Atlantic, Marine; Oceanography.
7.	Corresponding Printed Sources Five reports in the Canadian Journal of Fisheries and Aquatic Sciences data report series (see 11).	11. Additional Information 1. Data are summarized for four-hour intervals.
8.	Languages Reports are available in English with French abstracts.	Data are sent annually to the Marine Environment Data Service in Ottawa. There is generally a two-year lag period between data acquisition and submission to MEDS.
9.	User Alds Available None.	
10.	Keywords Fish habitat; Nova Scotia; Rivers; Salmon; Water; Water quality.	and the second se
11.	Additional Information Most of the data on chemical characteristics collected by this Division is entered in NAQUADAT, a database held by Environment Canada, Ottawa, however the contacts listed are most familiar with this stream database.	

	Marine Chemistry Database		Ocean Current (CMCTD) Database
1.	Datafile Name(s) Not applicable	1.	Datafile Nerne(s) Not applicable
2a.	Summary Description of Contents Marine chemical data from all east coast Canadian waters and surface sediments.	2a.	Summary Description of Contents Data on approximately 3,000 ocean current time series from various locations along the eastern and Arctic coasts of Canada.
2b.	Purpose of the Database Chemical oceanographic research.	2b.	Purpose of the Database To monitor ocean current characteristics for ocean parable research
3a.	Name and Address of Responsible Organization Marine Chemistry Division, Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.	3a.	Name and Address of Responsible Organization Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J.M. Bewers (902) 426-7079	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Doug Gregory (902) 426-8931
3с.	Access Mechaniams Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) depth, salinity, temperature, nutrients, pH, alkalinity, dissolved oxygen, organic matter - trace metals, trace organic compounds, petroleum hydrocarbons, stable isotope ratios, radionuclides, trace gases	4a.	Variat-les Included (summarized if extensive) - syleed - direction - temperature - sulinity
4b	Geographic Coverage All east coast marine waters including the Arctic archipelago and Arctic ocean. Data also available for international waters.	4b.	Geographic Coverage East coast of Canada and eastern Canadian Arctic
4c.	Data Acquisition Method(s) Chemical oceanographic research cruises.	4c.	Data /icquisition Method(s) Data collected from moored current meters by Department personnel, international vessels and industry.
4d.	Geographic Unit(s) of Measurement Data measured at individual sites.	4d.	Geographic Unit(s) of Measurement Sampling sites referenced by latitude and longitude
40	Period of Record 1970 - present.	40	Period of Record Early 1960's - present
41.	Update Frequency Irregular.	4f.	Update Frequency Every few weeks, annually.
4 g	Database Hardware/Software Configuration Mainframe computer (not available for external use)	4g.	Database Hardware/Software Configuration Mainframe computer using FORTRAN and PASCAL custom software; data available in ASCII format on diskette or manifetic tape
4h	Output Format(a) (tables, maps, etc.) Tables (printed or on electronic media).	4h.	Output Format(s) (tables, maps, etc.) Tables, graphs
5.	Restrictione and Conditions Release of information subject to approval of scientists directing programs concerned. May be restrictions on unvertied or uninterpreted data.	5	Restrictions and Conditions Some industry data are proprietary and require permission
6.	Price Information Resource recovery may be required for large requests		to accriss.
7.	Corresponding Printed Sources Research publications of scientists in Marine Chemistry	6.	Price information \$25/hour retrieval and analysis cost.
0	Languages. The database is meetly support upon deeps and an activities in Earlich	· · ·	Camereponding minited Sources None.
0	Lease Aide Available None	0.	Lengueges The catabase is mostly numbers.
10	Kenwards Artis Alastis Marine Coopportunity	9.	Veen Ande Avelle BIO durrent meter inventory.
10.	regresses activ, analitiv, marine, cuedanugraphy.	10.	Neyworke Arcin, Allenic, Currens, Manne, Oceanography.
11.	Additional Information Good baseline data for offshore areas. Radionuclide data collected near the Pt Lepreau Nuclear Power Station. Contraminent investigations of collected industrial size.	11.	Additional Information Not all parameters exist for all sample sites.

	Ocean Temperature and Salinity Profiles (CMCTD) Database	PCB Content of Plankton in Nova Scotla
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) Files for several years
2a.	Summary Description of Contents Records of temperature, pressure and salinity for approximately 20.000 stations covering the eastern coast of Canada, Gulf Stream, and west Atlantic Ocean.	 Summary Description of Contents Data on PCB content of water, plankton and fish in St. Georges Bay, Nova Scotia.
2b.	Purpose of the Database To obtain physical oceanographic data relevant to studies of ocean physics, fisheries, climate and ice.	 Purpose of the Database To examine organochlorine dynamics in the marine food web and to complement laboratory investigations. Name and Address of Responsible Organization Habitat Ecology Division, Biological
3a.	Name and Address of Responsible Organization Bedford Institute of Oceanography, Department of Fisheries and Oceans, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.	Services Branch, Scotia-Fundy Region, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Doug Gregory (902) 426-8931	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gareth Harding (902) 426-2692
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) pressure, temperature, salinity	4a. Variables included (summarized if extensive) - rainfall
4b.	- dissolved oxygen (occasionally measured) Geographic Coverage Canadian east coast, Gull Stream, west Atlantic Ocean.	 plankton size fractions fish size and species (herring, mackerel, gaspereau, smelt, etc.) PCB content (ng PCB/g) wet wainht
4c.	Data Acquisition Method(s) Mainly from Departmental and foreign vessels during research cruises.	 dry weight lipid plankton (ike soan by size class)
4d.	Geographic Unit(s) of Measurement Sampling sites referenced by latitude and longitude.	- fish age (estimated) - date
4e.	Period of Record 1970 - present.	4b Geographic Coverage St. George's Bay (southern Gulf of St. Lawrence).
4f.	Update Frequency As new data are acquired.	4c Data Acculation Method(s) Four plankton nets towed at two to three week intervals,
4g.	Database Hardware/Software Configuration Maintrame computer using FORTRAN and PASCAL custom software; data available in ASCII files on diskette	May - November, rainfall data from Atmospheric Environment Service (Port Hood Station).
	or magnetic tape.	 Geographic Unit(s) or Measurement All samples collected at centre or bay.
4h.	Output Format(s) (tables, maps, etc.) Tables, graphs.	4e. Period of Record 1976, 1977, 1982, 1988.
5.	Restrictions and Conditions Generally none; permission of scientific authority may be required if data less than two years old.	4f. Update Frequency Irregular.
6.	Price Information \$25/hour retrieval costs.	4g Database Hardware/Software Configuration MACINTOSH microcomputer with EXCEL software.
7.	Corresponding Printed Sources Results are incorporated into papers published in the scientific literature.	4h. Output Format(s) (tables, maps, etc.) Tables
8.	Languages The database is mostly numbers	5. Restrictions and Conditions Contact person has publication priority.
9.	User Aids Available None.	6. Price Information Undetermined.
10	Keyworda Atlantic Marine Oceanography.	7. Corresponding Printed Sources None.
11	Additional information	8 Languages The database and manuscript in preparation are in English.
	1. The database is not accessible to outside users at present.	9. User Aids Available None.
	Data are sent annually to the Marine Environmental Data Service in Ottawa. There is generally a two-year lag period between data acquisition and submission to MEDS.	 Keywords Aquatic ecosystems; Contaminants; Fish; Gulf of St. Lawrence; PCBs; Plankton.
		 Additional Information The field data in the database complement experimental laboratory studies examining how organochlorines enter marine organisms. These studies use radioactively labelled DDT, algae and copepods. A manuscript on the behaviour of PCB's in a pelagic food web in the marine coastal environment is in preparation.

		-	
	Phytoplankton Monitoring Program, Atlantic Zone		Scotia-Fundy Commercial Herring Database
1.	Datafile Name(a) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Phytoplankton distribution and abundance in coastal, marine areas of Atlantic Canada.	2a.	Summery Description of Contents Biological, gear and location data for the herring fishery in the Scotia - Fundy Region.
2b.	Purpose of the Database To monitor the seasonal variation in phytoplankton in the coastal, marine zone.	2b.	Purpose of the Database Stock assessment and fisheries management.
3a.	Name and Address of Responsible Organization Habitat Ecology, Scotia-Fundy Region, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2.	3a.	Name and Address of Responsible Organization Marine Fish Division, Biological Sciences Branch, Scotra - Fundy Region, Department of Fisheries and Oceans, St. Andrew's Biological Station, St. Andrew's, New Brunswick, EOG 2X0.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Don Gordon (902) 426-3278	3b.	Contect Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Robert L. Stephenson (506) 529-8854 FAX: (506) 529-4274
Зс.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables included (summarized if extensive)	4a.	Variables Included (summarized if extensive) - fish (length, weight, age, sex, maturity) - quart type
	chlorophyll (size - fractionated) domoic acid		- π onth, NAFO area
	 phytoplankton species water temperature, salinity, dissolved oxygen 	4b.	Geographic Coverage Georges Bank, Bay of Fundy, Scotian Shelf.
	light levels	4c.	Data Acquisition Method(s) Fish from commercial vessels sampled when they land.
4b.	Geographic Coverage Nearshore, marine Atlantic Canada	4d.	Geographic Unit(s) of Measurement Northwest Atlantic Fisheries Organization (NAFO) areas.
4C.	Data Acquisition Method(s) Water sampling and net tows are carried out seasonally.	4e.	Period of Record 1965 - present.
4d.	Geographic Unit(s) of Measurement Sampling sites located by latitude, longitude.	4f.	Update Frequency Weekly.
40.	Period of Hecord 1987 - present.	49.	Database Hardware/Software Configuration VAX 6210 with custom software.
41.	Update Frequency Weekly, monthly.	4h.	Output Format(s) (tables, maps, etc.) User defined.
4g.	Database Hardware/Software Configuration The hardware and software to be used have not yet been determined.	5.	Restrictions and Conditions Contact person in 3b.
4h.	Output Format(s) (tables, maps, etc.) Tables	6	Price information No charge.
5.	Restrictions and Conditions None.	7.	Corresponding Printed Sources The data appear in the annual assessment document produced by the Canadian Atlantic Fisheries Scientific Advisory Committee
6.	Price Information To be determined.		Lenguages Service for the
7.	Corresponding Printed Sources None from this database although publications have been prepared by individual regions.	9	User Alds Available None.
8.	Languages The database is in English.	10.	Keywords Atlantic; Bay of Fundy; Fish; Fisheries; Herring.
9.	User Aids Available None.	11.	Additional Information None.
10.	Keywords Aquatic ecosystems; Atlantic; Biota; Biotic response; Marine; Phytoplankton; Plankton		
11	Additional Information This detakase is is suspendies. Converting and the first		

 Additional Information This database is in preparation. Currently, each of the four regions collects similar data. Plans are to develop a format so that all the data will be interchangeable and standardized.

	Scotia-Fundy Groundfish Sampling Database		Scotla-Fundy Groundfish Surveys
1	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Fish characteristics data for commercial tisheries of the coast of Nova Scolia.	2a.	Summary Description of Contents Data from eastern Canada on groundfish stocks for Georges Bank and the Scolia Shelf.
26.	Purpose of the Database Stock assessment and fisheries management.	2b.	Purpose of the Database To monitor the distribution and abundance of groundfish for fisheries management.
3a.	Name and Address of Responsible Organization Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2.	За.	Name and Address of Responsible Organization Marine Fish Division, St. Andrew Biological Station, Department of Fisheries and Oceans, St. Andrews, New Brunswic EOG 2X0.
sb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Kees Zwanenburg (902) 426-3310	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. S. Gavaris (506) 529-8854 FAX: (506) 529-4274
BC.	Access Mechanisms Through the responsible organization.	30	Access Mechanisms Through the responsible organization.
la,	Variables Included (summarized if extensive)		
	 Itsh species (cod, haddock, policck, reditish) catch location (NAFO unit area, area of capture) date 	4a.	 Variables included (summanzed if extensive) fish species (cod. haddock, pollock, skate, flattish, redfish, silver hake) weight (age, maturity of fish), age-maturity and size relations
	- gear type - fish sample (length, age)	4b.	Geographic Coverage Georges Bank, Scotian Shelf, Bay of Fundy.
	- pon (country)	4c.	Data Acquisition Method(s) Research cruises using groundfish trawl.
b	Geographic Coverage Georges Bank, Bay of Fundy, Scotian Shelf.	4d.	Geographic Unit(s) of Measurement Latitude, longitude using stratified random desig
C.	Data Acquisition Method(s) Fish from commercial vessels sampled when they land.	40.	Period of Record 1950's - present.
ld.	Geographic Unit(s) of Measurement Canadian Statistic Unit Areas.	41.	Update Frequency Annually in spring, summer and fall.
le. If.	Period of Record 1948 - present. Update Frequency Weekly.	4g.	Database Hardware/Software Configuration VAX 6210 with VMS operating system and ORACLE database management system; ASCII files available.
lg.	Database Hardware/Software Configuration CYBER 860 with custom software	4h.	Output Format(s) (tables, maps, etc.) User defined.
16	Output Formatia) /tables mane atc.) User defined	5	Restrictions and Conditions Access subject to local management authorization.
F 11.	output Furniarda) (tablea, maps, etc.) Oser demot.	6.	Price Information No charge.
2.	Hestrictions and Conditions Access subject to local management authorization.	7.	Corresponding Printed Sources
5. 7.	Price Information No charge. Corresponding Printed Sources Annual summary reports are sent to the North Atlantic	1	 Internal reports. Summarized results published in Canadian Atlantic Fisheries Scientific Adviso Committee Reports.
	Fisheries Organization in Dartmouth.	B	I annuance. The reports are in English: the database is mostly numbers
3.	Languages The database is mostly numbers.	0	Hear Aide Aveilable. STDAD evetam
э.	User Aids Avaitable Commercial Groundfish Samples System.	9.	Voien Allus Available Office System.
10.	Keywords Aquatic ecosystems; Atlantic; Cod, Fish; Fish populations; Groundlish; Manne; Nova Scotia.	10.	Keywords Attantic; Cod; Fish, Fish populations; Fisheries; Groundtish; Manne; Nor Scotia.
1 1	Additional Information	11	Additional Information As of 1970 all records have a common format and coding system
	 The data are initially put in a temporary file during the calendar year they are collected. They are initialized in March of the next year and entered in the main database. Data for the current year are available within 10 days of field collection. 		
	Ine database will soon be put on a maintrame computer with an URACLE database management system.		

	Scotla-Fundy Marine Mammals Database	Scotia-Fundy Observer Program (MAROD) Database
1.	Datefile Name(s) Not applicable	1. Datafile Name(s) Not applicable
2a.	Summery Description of Contents Population data on harbour and grey seals breeding in the Scotta Shelf area of eastern Canada.	2a. Summary Description of Contents Data on fish stocks obtained from domestic and foreign fishing vessels inside Canada's eastern 200 mile limit.
2b.	Purpose of the Database To obtain information on the seasonal distribution and movement of seal populations and assess the implications for the commercial fishery.	2b. Purpuse of the Database To monitor fish stocks for scientific, management and enforciement purposes.
За.	Name and Address of Responsible Organization Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth Nova Scotia, B2Y 4A2	 Name and Address of Responsible Organization Marine Fish Division, Biologica Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography Dartmouth, Nova Scotia, B2Y 4A2.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Don. W. Bowen. (902) 426-8909	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Don E. Waldron (902) 426-2937
30	Access Machanisms Through the responsible pressingtion	3c. Access Mechanisms Through the responsible organization.
da	Variables Included (summarized if extensive)	4a. Variables Included (summarized if extensive)
erea.	· species (harbour, grey seal)	 gaar time fished location (latitude longitude)
	animal location (tagged, recovered, latitude, longitude)	 catch (weight species) and fish (number length weight age)
	 breeding colony location, number of pups 	- dəpth
	diet (species, size of prey, % energy requirements)	suface water temperature
46.	Geographic Coverage Scotia Shelf.	4b. Geographic Coverage Scotia Shelf, Bay of Fundy, Georges Bank, Gulf of St. Lawrence, Grand Banks, Labrador,
4c.	Data Acquisition Method(s) Field observations by Departmental personnel and some tag information from lishermen and the public.	4c. Data Acquisition Method(s) Contract personnel monitor vessels while at sea.
4d.	Geographic Unit(s) of Measurement Tag data referenced by latitude and longitude; stomach content data referenced by home port	4d. Geographic Unit(s) of Measurement Data referenced by latitude and longitude.
40	Period at Record 1960's - present	4e. Period of Record 1977 - present.
44	Indete Company Mariala da anti-	41. Update Frequency Weekly.
41.	upoate frequency variable, depending upon datatile.	
4g.	Database Hardware/Software Configuration Mainframe computer or IBM microcomputer data available in ASCII format	 Database Hardware/Software Configuration CYBER 860 with SYSTEM 2000 database management; ORACLE.
4h	Output Format(a) (tables mans etc.) User defined	4h. Output Format(s) (tables, maps, etc.) User defined.
E	Besteletione and Conditions Association to had been and to the loss	5. Restrictions and Conditions Access subject to local management authorization.
Ð.	resurceons and constituens Access subject to local management authorization.	6. Price Information At the discretion of DFO.
6.	Price Information No charge.	7 Corresponding Printed Sources, Some summary reports are available; some internal
7.	Corresponding Printed Sources None.	reports may be available on an individual request basis.
8.	Languages Sequential file.	8. Languages The database and reports are in English.
9.	User Alds Avaitable None.	9. User Alids Available None.
10.	Keywords Aquatic ecosystems; Atlantic; Biota; Mammals; Marine mammals; Seals; Wildlife	10. Keywords Atlantic; Fish populations; Fisheries, Marine.
		11. Additional Information
11.	Additional Information There are plans to expand the program by attaching satellite transmitters to grey seals to follow offshore feeding behaviour.	 Although this program is managed by Canada, it is paid for in part by foreign governments, and in certain instances, the Canadian fishing industry. The information is used by industry for selecting locations for further fisheries development. This database will be shifted to ORACLE.
		5. The data are used to measure the first on Count
		2. Line data and used to manage the tishery for Canada

		_	
	Scotia-Fundy Stream Inventory		Scotian Shelf Ichthyoplankton Database (SSIP)
1	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Biological and physical data for rivers in the Scotia - Fundy region.	2a.	Summary Description of Contents Biological data on fish species and environmental data from research surveys on the Scotian Shelf.
2b.	Purpose of the Database Data used in fish habitat management.	2b.	Purpose of the Database To describe the distribution of fish eggs and larvae.
3a.	Name and Address of Responsible Organization Habitat Management Branch, Department of Fisheries and Oceans, P.O. Box 550, Halifax, Nova Scotia, B3T 2S7.	3a.	Name and Address of Responsible Organization Marine Fish Division, Biological Sciences Branch, Department of Fisheries and Oceans, Bedford Institute of Oceanography, Dartmouth, Nova Scotia, B2Y 4A2.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. R. Sweeney (902) 426-2253	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. R. N. O'Boyle (902) 426-4890
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive)		
	- watershed area	4a.	Variables Included (summarized if extensive)
	- lish species		- species (sand lance, silver hake, herring, cod, haddock; also fish eggs; larvae;
	- stream length		zooplankion)
	- pool location		- species data (number of individuals, length, development stage)
	- vegetation cover		- sampling method
	- obstructions	1	temperature)
	poliution sources		very perature)
	- Water withorawar		water chamistry (chlorophyll fluorescence nitrate silicate phosphate)
	- pri flower discharge		water temperature salinity
	- INWIS, discharge		Hator tomporatoro, ouniny
4b.	Geographic Coverage 30 to 40 large rivers in the Scotia-Fundy region.	4b.	Geographic Coverage Scotian Shelf, Bay of Fundy.
4c.	Data Acquisition Method(s) Field observation by Department personnel and data from environmental impact studies conducted externally.	4c.	Data Acquisition Method(s) Research vessel cruises using plankton gear.
4d.	Geographic Unit(s) of Measurement Data referenced by regional stream and watershed	4d.	Geographic Unit(s) of Measurement Samples referenced by latitude, longitude to the nearest minute using systematic grid of 150 stations.
4.0	Baried of Basard 1070 present	4 0 .	Period of Record 1976 - 1982.
48.		4f.	Update Frequency Database is now static.
41.	oposte Frequency Inegular	4g.	Database Hardware/Software Configuration CYBER 860 with custom software.
4g.	Database Hardware/Software Configuration Paper IIIe.	4h.	Output Format(s) (tables, maps, etc.) User defined.
4h.	Output Format(s) (tables, maps, etc.) Maps, tables, text.	5.	Restrictions and Conditions Access subject to local management authorization.
5.	Restrictions and Conditions None	6.	Price Information No charge.
6.	Price Information No charge.	7.	Corresponding Printed Sources See contact person; topics cover spawning time and
7.	Corresponding Printed Sources None.		species distribution.
8.	Languages The database is in English.	8.	Languages Sequential file.
9	User Aids Available None.	9.	User Alds Available A user's manual is available.
10.	Keywords Atlantic; Fish; New Brunswick; Nova Scotia; Rivers; Watersheds	10.	Keywords Aquatic ecosystems; Atlantic; Fish; Fisheries; Ichthyoplankton; Marine; Plankton.
11.	Additional Information There are plans to integrate the data in a GIS database.	11.	Additional Information This database will soon be transferred to ORACLE.

FISHERIES AND OCEANS Gulf Region

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
ATLANTIC SALMON BIOLOGICAL CHARACTERISTICS	Mr. Ross Claytor (506) 851-6249	156
ATLANTIC SALMON ELECTROFISHING DATABASE	Mr. Ross Claytor (506) 851-6249	156
CONTAMINANTS DATABASE (FISH AND FISH PRODUCTS)	Mr. John McLean (506) 851-6571	157
GULF OF ST. LAWRENCE COMMERCIAL FISH SAMPLES (COMSAM)	Mr. John Wright (506) 851-6985 Ms. Gloria Nielsen (506) 851-2035	157
GULF OF ST. LAWRENCE FISH COUNTING FENCE DATABASE	Mr. Ross Claytor (506) 851-6249 Mr. Michael Chadwick (506) 851-6206	158
GULF OF ST. LAWRENCE INTEGRATED FISHERIES MANAGEMENT SYSTEM (HABITAT)	Mr. John Legault (506) 851-6221	158
GULF REGION COMMERCIAL SNOW CRAB FISHERY	Mr. Gerard Conan (506) 857-6208 Mr. Elmer Wade (506) 857-6210	159
LOBSTER FISHING EFFORT AERIAL SURVEY DATA	Mr. Don Maynard (506) 857-6212	159
LOBSTER MOVEMENT DATABASE	Mr. Elmer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212	160
PHYTOPLANKTON WATER-WATCH	Mr. John McLean (506) 851-6571	160
PSP AND DOMOIC ACID IN SHELLFISH	Mr. John McLean (506) 851-6571	161
SEA SAMPLING FOR THE LOBSTER GULF FISHERY	Mr. Elmer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212	161

Fisheries and Oceans: Gulf Region

	Atlantic Salmon Biological Characteristics		Atlantic Salmon Electrofishing Database
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) One file for each river.
2a.	Summary Description of Contents Biological data on Atlantic salmon in rivers flowing into the Gulf of St.Lawrence.	2a.	Summary Description of Contents Data on juvenile salmon obtained through electrofishing for two of the main salmon rivers in Atlantic Canada.
2Ь.	Purpose of the Database Data are used to manage the salmon fishery.	2 b.	Purpose of the Database For salmon fishery management.
За.	Name and Address of Responsible Organization Marine and Anadromous Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Moncton, New Brunswick, E1C 986.	3a.	Name and Address of Responsible Organization Marine and Anadromous Division Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street Moncton, New Brunswick, E1C 986.
зь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ross Claytor (506) 851-6249	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ross Claytor (506) 851-6249
Зс.	Access Mechanisms Through the responsible organization.	Зс.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - length - weight	4a.	Variables Included (summarized if extensive) - river name - site number, date
	- sex - age - stream - site		 stream characteristics (length, width, water depth, temperature, conductivity, pH) sampling equipment/methods used (mesh size, number of sweeps, time/sweep, etc.) juvenile salmon (age, number caught, class length) other species caught (eels, trout, dace, shiner, sucker, etc.)
4b	Geographic Coverage 15 rivers flowing into the Gulf of St.Lawrence (excluding those in Quebec).	4b.	Geographic Coverage About 50 sites on the Miramichi River and about 100 sites on the Restigouche River, New Brunswick.
4c.	Data Acquisition Method(s) Rivers sampled several times/year; 1 in 10 fish measured.	4c.	Data Acquisition Method(s) Sites sampled annually.
4d.	Geographic Unit(s) of Measurement Individual sampling sites referenced by site code.	4d.	Geographic Unit(s) of Measurement Individual sampling sites referenced by site code
4e.	Period of Record 1954 - present.	40.	Period of Record Miramichi River, 1970 - present; Restigouche River, 1972 - present.
4f.	Update Frequency Several times per year.	AF	Undete Frequency Annually
4g.	Database Hardware/Software Configuration VAX computer with custom software, SAS used for analyses.	4g.	Database Hardware/Software Configuration Data stored in ASCII files
4h.	Output Format(s) (tables, maps, etc.) Tables, graphs.	4h.	Output Format(s) (tables, maps, etc.) Tables.
5.	Restrictions and Conditions A written request for data is required.	5	Restrictions and Conditions A written request for data is required.
6.	Price Information Depends on request, cost recovery policy.	6	Price Information Depends on request, cost recovery policy.
7.	Corresponding Printed Sources Some data are used in preparing Canadian Atlantic Fisheries Scientific Advisory Committee documents and other reports	7.	Corresponding Printed Sources 1. Status of Atlantic Salmon in the Miramiche River. 2. Status of Atlantic Salmon in the Restinguehe River.
В.	Languages The reports are in English; the database is mainly numbers.	P	Lenguages The coorte are in English: the database is mostly numbers
9.	User Aids Available None	0.	Learguages in reports are in chylisit, the valuese is mostly fullibers
10.	Keywords Atlantic; Biota; Fish; Fisheries; New Brunswick; Salmon.	9.	Voen Avus Avantauro Indito.
11.	Additional information These data are collected at the same time as the counting fence data (Gult of St.Lawrence Fish Counting Fence Database).	10.	 Additional Information 1. Not all sites are monitored every year. Of the approximately 150 sites, about 30 are monitored annually. 2. Site codes are based on the Division's own numbering scheme.

	Contaminants Database (Fish and Fish Products)		Gulf of St.Lawrence Commercial Fish Samples (COMSAM)
1.	Datafile Name(s) Not applicable	1.	Datafile Name(a) Not applicable
2a.	Summary Description of Contents Record of heavy metals and organochlorinated pesticides contaminants in fish and fish products.	2a.	Summary Description of Contents Data on samples of fish caught commercially in the Gulf of St Lawrence.
26.	Purpose of the Database To establish baseline data for background levels and to assure adherence to established standards.	2b.	Purpces of the Database To monitor fish stocks for management purposes.
3a.	Name and Address of Responsible Organization Inspection Branch, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 8J6.	За.	Name and Address of Responsible Organization Marine and Anadromous Fish Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archit ald Street, Moncton, New Brunswick, E1C 9B6.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John McLean (506) 851-6571 FAX: (506) 851-2086	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John Wright (506) 851-6985 Ms. Gloria Nielsen (506) 851-2035
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) location, date, size methods of analysis concentration in fish and fish products 	4a.	Varial kee Included (summarized if extensive) - species - fish (length, age, market category, sex, condition) - number of fish measured
4b.	Geographic Coverage Guil Region and imports.		Weight in each market calegory total weight of sample date
lc.	Data Acquisition Method(a) DFO personnel and labs.		 catch location (NAFO code) catch location (NAFO code) catar used: vessel tonnace: landing port
td.	Geographic Unit(s) of Measurement Sub-districts.		- dapth fished
le.	Period of Record 1984 · present.	4b.	Geographic Coverage Gulf of St. Lawrence.
lf.	Update Frequency Daily.	4c.	Data Acquisition Method(s) Samples from commercial vessels at port or at sea
lg.	Database Hardware/Software Configuration IBM - PC based microcomputers, Q & A software and word processing.	4d	Geographic Unit(s) of Measurement Data recorded by Northwest Atlantic Fisheries Organization (NAFO) area subdivisions or port.
lh.	Output Format(s) (tables, maps, etc.) Tables.	40.	Period of Record 1948 - present
5.	Restrictions and Conditions Restricted access - contains confidential plant product information - specific summary reports available on request.	4f.	Update Frequency Annually
S.	Price Information Not applicable.	4g.	Database Hardware/Software Configuration VAX computer or IBM PC's and equivalents with custom software.
7.	Corresponding Printed Sources Not applicable.	4h	Output Format(s) (tables, maps, etc.) Tables.
8.	Languages English and French.	5.	Restrictions and Conditions None
).	User Alds Available Not applicable.	6.	Price Information Depends on request, cost recovery policy.
10.	Keyworde Contaminants, Fish; Fisheries; Heavy metals; Pesticides.	7.	Corresponding Printed Sources Internal reports are prepared for each species. These are presented at the Canadian Atlantic Fisheries Scientific Advisory Committee meetings.
- Le			Subsequentry, regional annual reports are prepared.
		8.	Languages The reports are in English; the database is mostly numbers.
		9.	User (Mds Available Technical report: AGELEN (Age-Length, Information System). Under revision.

10. Keywords Atlantic; Biota, Fish; Fisheries; Gulf of St. Lawrence; Marine.

 Additional Information Prior to 1983 this database was managed by Department of Fisheries and Oceans at the Bedford Institute of Oceanography in Dartmouth. Information for that period still resides there.

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	Gulf of St.Lawrence Fish Counting Fence Database		Gulf of St.Lawrence Integrated Fisheries Management System (HABITAT)
1.	Datafite Name(s) Not applicable.	1. De	atafile Name(s) Not applicable.
2a.	Summary Description of Contents Data on fish species migration for streams flowing into the Gulf of St.Lawrence.	2a Su rei go	ummary Description of Contents Projects in the Gulf of St.Lawrence region ferred to the Department by federal and provincial governments and non- overnmental regulatory agencies for comment concerning possible environmental
2b.	Purpose of the Database Data used for management of the salmon fishery.	irr	npacts on fish habitat.
3a.	Name and Address of Responsible Organization Marine and Anadromous Division, Science Branch, Gulf Region, Department of Fisheries and Oceans, 343 Archibald Street, Montro, New Brunswick, 512, 996	2b. Pu im	urpose of the Database To monitor and assess projects potentially having an apact on fish habitat.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ross Claytor (506) 851-6249 Mr. Michael Chadwick (506) 851-6206	3a. Na Fii Oo	ame and Address of Responsible Organization Habitat Management Division, sheries and Habitat Management Branch, Gulf Region, Department of Fisheries and ceans, 343 Archibald Street, Moncton, New Brunswick, E1C 9B6.
Зс.	Access Mechanisms Through the responsible organization.	3b. Cu Mi	ontact Person(s), Address (if different from 3a), Telephone and FAX Number(s) r. John Legault (506) 851-6221
4a	Variables Included (summarized if extensive) river, date, time fish (species, total numbers, number tagged/recaptured)	3c. At	ccess Mechanisms Through the responsible organization.
	 temperature (water, air) fish movement direction trap (number, hours fished) 	4a. Va -	ariables Included (summarized if extensive) applicant and project type location (latitude, longitude, UTM)
	 water level weather (cloud cover, wind direction, precipitation) 		river/bay of impact status of project (open, closed).
4b.	Geographic Coverage 15 rivers flowing into the Gulf of St.Lawrence (excluding those in Quebec)	4b. Gr St	eographic Coverage Portions of the Atlantic Provinces bordering on the Gulf of Lawrence
4c.	Data Acquisition Method(s) Barrier positioned across stream during migration, fish moving both upstream and downstream counted.	4c. Da fro	ata Acquisition Method(s) From the provincial governments. They receive information on project proponents.
4d.	Geographic Unit(s) of Measurement Individual sampling sites referenced by site code.	4d. G e U	eographic Unit(s) of Measurement. Individual projects referenced by latitude, longitude, TM grid.
40.	Period of Record 1952 - present, most sites have data for at least 5 years.	4e. Pe	eriod of Record 1980 - present.
41.	Update Frequency Annually.	4f. U	pdete Frequency Daily
4g.	Database Hardware/Software Configuration VAX computer with custom software; data in ASCII files and available on diskette.	4g. Da	atabase Herdware/Software Configuration IBM compatible microcomputer with
4h.	Output Format(s) (tables, maps, etc.) Tables.	DE	NOWLEDGEMAN software and MACINTOSH computer with 41H DIMENSION BMS.
5.	Restrictions and Conditions A written request for data is required.	4h. 04	utput Format(s) (tables, maps, etc.) Tables.
6.	Price Information Depends on request, cost recovery policy.	5. Re	estrictions and Conditions None.
7.	Corresponding Printed Sources Some salmon data are used in preparing Canadian Atlantic Fisheries Scientific Advisory Committee documents and other data are published	6. Pr	rice Information No charge.
	in the Department's technical report series.	7. Co	orresponding Printed Sources None.
8.	Languages The reports are in English; the database is mostly numbers.	8 La	inguages The database is in English.
9.	User Aids Available None.	9. U	ser Aide Available None.
10.	Keywords Biota; Fish, Fish populations; Fisheries; New Brunswick; Salmon.	10. Ke	eywords Aquatic ecosystems: Atlantic; Environmental impact; Fish; Fish habitat; Gulf St. Lawrence; New Brunswick; Newfoundland; Nova Scotia; Prince Edward Island.
11.	Additional Information Site codes are based on the Division's own numbering scheme.	11. Ac	dditional Information None.

	Gult Region Commercial Snow Crab Fishery		Lobster Fishing Effort Aerial Survey Data
1.	Datafile Name(s) One for each year.	L	Datal le Name(s) Not applicable
2a.	Summary Description of Contents Data on catch and effort for the snow crab fishery in the Gulf of St Lawrence.	2a.	Summary Description of Contents Distribution of lobster trap buoys in the Gulf of St I.awrence and the Northumberland Strait.
26.	Purpose of the Database To monitor snow crab catches for fisheries management	2b.	Purpose of the Database To determine the level of fishing effort for management
3a.	Name and Address of Responsible Organization Invertebrate Division, Gull Region, Department of Fisheries and Oceans, P.D. Box 5030, Moncton, New Brunswick, E1C 9B6.	3a.	Name and Address of Responsible Organization Invertebrate Division, Gulf Region,
зь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)		Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 986.
2-	Mr. Gerard Conan (506) 857-6208 Mr. Elmer Wade (506) 857-6210	3b.	Contract Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dan Maynard (506) 857-6212
30	Access Mechanisms Through the responsible organization.	20	Access Mechanisme Through the responsible supervision
la.	Variables Included (summarized if extensive)	JC.	Access Mechanisms Through the responsible organization
	date (catch, landing)	4a.	Variables Included (summarized if extensive)
	- catch weight (kg)		- buoy location (LORAN C bearings, latitude, longitude)
	- number of traps		- date
	- time fished (total hours, days) - depth	4b.	Geographic Coverage Northumberland Strait, Gulf of St.Lawrence
њ.	Geographic Coverage Gulf of St.Lawrence.	4c	Data Acquisition Method(s) Aerial surveys
ŀc.	Data Acquisition Method(s) Data collected from fishermen and staff onshore	4d.	Geographic Unit(s) of Measurement Buoys located by LORAN C bearings, latitude,
ŧd.	Geographic Unit(s) of Measurement Catch located by LORAN C bearings.		longitude.
le.	Period of Record 1981 - present	4e.	Period of Record 1983, 1984, 1985
3.5	Budda Comment Annual	4f	Update Frequency Uncertain
J.T	update Frequency Annually		
lg.	Database Hardware/Software Configuration HP 3000 computer with VIEW 3000 software.	49	Datat are Hardware/Software Configuration Paper file; data also on magnetic tape.
h	Output Format(s) (tables, maps, etc.) Tables, maps	4h	Output Format(s) (tables, maps, etc.) Maps (in report).
		5.	Restrictions and Conditions None.
1.	Hestrictions and Conditions Data on individual fishermen/vessels are confidential, summarized data are available.	6.	Price Information No charge.
i.	Price Information No charge.	7.	Corresponding Printed Sources
			1. An Aerial Survey of Fishing Effort in the Lobster Fishery of Northern Northumberland
	Corresponding Printed Sources Annual Canadian Atlantic Fisheries Scientific Advisory Committee documents - Gulf Region Snow Crab Fishery Stock Assessment		5 Insit: Canadian Atlantic Fisheries Scientific Advisory Committee Research Document 83/28, 1983.
	Languages The reports and database are in English.		 An Aerial Survey of Fishing Effort in the Lobster Fishery of Northern Northumberland Strait. Annual Variations and Seasonal Variation of the Spatial Distributions.
	User Aids Available None		Canadian Atlantic Fisheries Scientific Advisory Committee Research Document 84/96, 1984.
0.	Keywords Anthropods; Atlantic; Crab; Fisheries; Gulf of St Lawrence; Shelflish	8.	Languages The database is numbers.
1.	Additional Information None	9	Harr Aide Aunilable None

- 10. Keywords Arthropods; Atlantic; Fisheries; Gulf of St. Lawrence; Lobster; Shellfish.
- 11. Additional Information None.

Fisheries and Oceans: Gulf Region

	Lobster Movement Database	Phytoplankton Water-Watch
1.	Datafile Name(s) One per area (Nova Scotia, New Brunswick, Prince Edward Island)	1. Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on lobster movement in the Gulf of St Lawrence from mark and recapture studies.	2a. Summary Description of Contents Regional database on phytoplankton concentrations.
26.	Purpose of the Database To monitor the movement of lobsters for fishery management.	2b. Purpose of the Database Early detection of phytoplankton which can generate toxins which may be harmful when imbibed by molluscan shellfish.
За.	Name and Address of Responsible Organization Invertebrate Division, Gulf Region, Department of Fishenes and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 986.	3a Name and Address of Responsible Organization Inspection Branch, Gulf Regis Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C B.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr Elmer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212	Sb. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John McLean (506) 851-6571 FAX: (506) 851-2086
3c.	Access Mechanisms Through the responsible organization.	3c Access Mechanisms Through the responsible organization.
4a.	 Variables Included (summarized if extensive) each lobster released: location, tag number, date, length, health, sex each lobster recaptured: location, tag number, date, length, health, sex, distance moved; angle of travel; growth 	Variables Included (summarized if extensive) Iocation of samples phytoplankton/l (conc.) of selected species in water
4b.	Geographic Coverage Gulf of St.Lawrence	4b. Geographic Coverage Gulf of St Lawrence.
4c.	Data Acquisition Method(s) 10,000 tagged lobsters released per year; lobsters trapped annually.	4c Data Acquisition Method(s) DFO staff and labs. 4d. Geographic Unit(s) of Measurement Shellfish growing areas (84).
4d.	Geographic Unit(s) of Measurement Individual lobster locations referenced by LORAN C bearings.	4e. Period of Record 1990 - present.
40.	Period of Record 1981 - present	41 Update Frequency Daily
41.	Update Frequency Continually.	4g. Database Hardware/Software Configuration IBM - PC based microcomputers, Q & A software and word processing.
4g	Database Hardware/Software Configuration HP 3000 computer with VIEW 3000 software.	4h. Output Format(s) (tables, maps, etc.) Tables.
4h	Outnut Format(a) (tables, mans, etc.) Tables, mans	5 Restrictions and Conditions Conditional access.
	Destrictions and Conditions Man	6. Price Information Not applicable.
5.	Restrictions and Conditions None.	7. Corresponding Printed Sources Not applicable.
6.	Price Information No charge	8. Languages English and French.
7.	Corresponding Printed Sources Data are reported in Canadian Atlantic Fisheries Scientific Advisory Committee research documents (1982 - 1987)	9. User Aids Avsitable Not applicable.
8.	Languages The reports and database are in English.	10. Keywords Health; Molluscs; Phytoplankton; Plankton; Shellfish; Toxins, Water.
9	User Aids Available Data Entry Guide	11. Additional Information None.
10.	Keywords Arthropods, Atlantic; Fisheries; Gulf of St. Lawrence; Lobster.	
11.	 Additional Information 1. 1988 report - Preliminary Results of Lobster Minimum Carapace Size Increase Program in the Gulf of St. Lawrence, Cape Breton, Nova Scotia 2. Maps show rosettes giving the percentage of time the lobsters move in a given direction. 3. About 30% of the lobsters released one year are recaptured the following year. 	

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	PSP and Domoic Acid In Shellfish		Sea Sampling for the Lobster Gulf Fishery
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) One for each year
2a	Summary Description of Contents Regional database - commercial wild and cultured harvest sites - measurements of PSP and ASP.	2a.	Summary Description of Contents Data on distribution and biology of lobsters trapped commercially in the Gulf of St.Lawrence.
2b.	Purpose of the Database To prevent the marketing of molluscan shellfish containing toxic levels of PSP and ASP.	26.	Purpuse of the Database To determine legal size limits for the lobster fishery.
За.	Name and Address of Responsible Organization Inspection Branch, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 8J6.	3a.	Name and Address of Responsible Organization Invertebrate Division, Gulf Region, Department of Fisheries and Oceans, P.O. Box 5030, Moncton, New Brunswick, E1C 986
36.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. John McLean (506) 851-6571 FAX: (506) 851-2086	3b.	Contract Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Eimer Wade (506) 857-6210 Mr. Don Maynard (506) 857-6212
30.	Access Mechanisms Through the responsible organization	Зс.	Access Mechanisms Through the responsible organization.
4a.	Variables included (summarized if extensive) I location of sample name of aquaculturist lease number, etc.	4a.	Varialities Included (summarized if extensive) - date, location, number of traps - lobster length, weight, health, sex - home port of fisherman
46.	Geographic Coverage Gulf Region and imported products	4b.	Geographic Coverage Gulf of St.Lawrence.
4c.	Data Accuration Method(a) DEO staff and labs	4c.	Data Acquisition Method(s) Observers onboard vessels record data.
4d.	Geographic Unit(s) of Measurement Identified growing areas.	4d.	Geographic Unit(s) of Measurement Catch located by LORAN C bearing and vessel home port
40	Period of Record 1988 - present.	40.	Period of Record 1982 - present.
41.	Update Frequency Daily.	41.	Update Frequency Annually.
4g.	Database Herdware/Software Configuration IBM - PC based microcomputers, Q & A software and word processing.	4g.	Details use Herdware/Software Configuration HP 3000 computer with VIEW 3000 software
4h.	Output Format(s) (tables, maps, etc.) Tables - confidential reports.	4h	Output Format(s) (tables, maps, etc.) Size - frequency histograms.
5.	Restrictions and Conditions Restricted access.	5.	Restri tions and Conditions None.
8.	Price Information Not applicable	6	Price Information No charge.
7.	Corresponding Printed Sources Not applicable.	7.	Corresponding Printed Sources None.
B.	Languages English and French.	8	Languages Database is mostly numbers.
9.	User Aids Available Not applicable.	9	User Alds Available None.
10.	Keywords Aquaculture; Health, Molluscs; Shellfish; Toxins.	10.	Keywords Aquatic ecosystems; Arthropods; Atlantic; Fisheries, Gulf of St. Lawrence,
11.	Additional Information None	11.	Additional Information None.



FISHERIES AND OCEANS Newfoundland Region

Fisheries and Oceans Databases	Contact Name(s) and Phone Number(s)	Page
INVENTORY OF FISH DISEASES IN FRESHWATER FISH IN NEWFOUNDLAND	Mr. M. C. Mercer (709) 772-2027	164
NEWFOUNDLAND EXPERIMENTAL AQUATIC ECOLOGY DATABASE (EXPEC)	Mr. M. C. Mercer (709) 772-2027	164
NEWFOUNDLAND FISHERIES INSPECTION SERVICES BRANCH DATABASE	Ms. Joyce Noseworthy (709) 772-4424	165
NEWFOUNDLAND FOREIGN FISHING VESSEL OBSERVER PROGRAM DATABASE	Mr. Larry Cody (709) 772-5057	165
NEWFOUNDLAND FRESHWATER AND ANADROMOUS FISH DATABASE (FAFP)	Mr. M. C. Mercer (709) 772-2027	166
NEWFOUNDLAND GROUNDFISH DATABASE (GFISH)	Mr. M. C. Mercer (709) 772-2027	166
NEWFOUNDLAND INVERTEBRATE DATA (INVERT)	Mr. M. C. Mercer (709) 772-2027	167
NEWFOUNDLAND PELAGIC FISH DATABASE (PELAG)	Mr. M. C. Mercer (709) 772-2027	167

Fisheries and Oceans: Newtoundland Region

	Inventory of Fish Diseases in Freshwater Fish in Newfoundland		Newfoundland Experimental Aquatic Ecology Database (EXPEC)
1_	Datafile Name(s) Not applicable	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents This is a list of diseases found to date in freshwater fishes in Newfoundland	2a.	Summary Description of Contents A database on parameters that have an impact upon fish habitat in Newfoundland and Labrador.
2b.	Purpose of the Database To catalogue the diseases identified in the province for evaluating programs involving the introduction or movement of fish.	2b.	Purpose of the Database To collect data for assessing the impact of water quality, ocean dumping and acid rain on fish habitat
3a.	Name and Address of Responsible Organization Science Branch, Department of Fisheries and Oceans, P.O. Box 5667, St. Joh.r's, Newfoundland, A1C 5X1.	3а	Name and Address of Responsible Organization Science Branch, Department of Fisheries and Oceans, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1.
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. M. C. Mercer (709) 772-2027	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. M. C. Mercer (709) 772-2027
3c.	Access Mechanisms Through the responsible organization	3с	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - disease - fish type and location	4a.	Variables included (summarized if extensive) mercury concentration, stream discharge and ocean dumping (material, location arrount, date, etc.)
4b.	Geographic Coverage Newtoundland and Labrador.	4b.	Geographic Coverage Newfoundland and Labrador
4c. 4d.	Data Acquisition Method(s) Data collection through field monitoring of fish. Geographic Unit(s) of Measurement Catalogued by rivers on the Island of	4c.	Data Acquisition Method(s) Data collected in the field by Department personnel; water quality and discharge data collected by Environment Canada; applications for ocean dumping permits via Environment Canada.
4e.	Period of Record 1978 - present	4d.	Geographic Unit(s) of Measurement In-house units, river coding system.
4f.	Update Frequency Annually	40.	Period of Record Variable; late 1940's - present.
4g.	Database Hardware/Software Configuration Paper file	4f.	Update Frequency Variable, depending on dataset.
4h.	Output Format(s) (tables, maps, etc.) Tables.	49	Database Hardware/Software Configuration VAX 8600 computer with custom software.
5.	Restrictions and Conditions Requests from outside the Branch must be in writing. Branch has first publication rights and results of analysis are to be shared with the Branch.	4h	Output Format(s) (tables, maps, etc.) Tables
6.	Price information No charge for small requests; cost recovery for others.	5	Restrictions and Conditions Requests from outside the Branch must be in writing; Branch has first publication rights and results of analyses are to be shared with the Branch
7.	Corresponding Printed Sources An Inventory of Incidences of Fish Disease Organisms in Newfoundland and Labrador (1988)	6	Price Information No charge for small request; cost recovery for others.
8.	Languages Database and report are in English.	7	Corresponding Printed Sources None.
9.	User Aids Available Complete listing of diseases	8.	Languages The reports and database are in English.
10.	Keywords Biota; Biotic response; Fish; Fish disease, Newtoundland.	9	User Aids Available Complete coding specifications and file labels are available.
11.	Additional Information None	10.	Keywords Aquatic ecosystems; Acid precipitation; Fish; Labrador; Newfoundland; Ocean dumping, Water quality.
		11.	Additional Information The studies on the effects of acid rain are part of a national assessment program being coordinated by Department of Fisheries and Oceans in Winnipeg.

	and the second	_	and the second se
	Newfoundland Fisheries Inspection Services Branch Database		Newfoundland Foreign Fishing Vessel Observer Program Database
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on contaminant levels in fish and shellfish in Newfoundland and Labrador.	2a.	Summary Description of Contents Biological data for fish caught by foreign vessels in the marine waters around Newfoundland and Labrador.
26.	Purpose of the Database To monitor water quality and contaminant levels in freshwater and marine fish and shelfish for fisheries and plant management purposes.	26.	Purpose of the Database To provide data for fish stock assessment and the establishment of traditional fishing patterns for use in claims settlements.
За.	Name and Address of Responsible Organization Inspection Services Branch, Department of Fisheries and Oceans, P.D. Box 5667, St. John's, Newfoundland, A1C 5X1.	За.	Name and Address of Responsible Organization Department of Fisheries and Dceans, P.O. Box 5667, St. John's, Newfoundland, A1C 5X1.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Joyce Noseworthy (709) 772-4424	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Larry Cody (709) 772-5057
30	Access Mechanisms Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
ас. 4а	Variables included (summarized if extensive) I location mercury (freshwater lish, mussels, marine species, 1977 - present) heavy metals (water - 1978, mussels - 1988, other species -1971, 1978) organic contaminants (numercus species - 1983) radioactivity (salled cod 1988)	4a.	Variables Included (summarized if extensive) - nation - month - ish species - ength - requency - age
4b	Geographic Coverage Newfoundland Region; 15-20 stations for mercury, 60 stations for bacteria.	Ū.	 growth conversion factors (gutted to whole weight) neristics
4c.	Data Acquisition Method(s) Regular monitoring programs and short term studies carried out by Department personnel. Some data provided by Environmental Protection, Environment Canada.	4b.	rorphometrics ocation Geographic Coverage Newfoundland and Labrador marine waters.
4d.	Geographic Unit(s) of Measurement Various	4c.	Date Acquisition Method(s) Data from observers aboard foreign fishing vessels.
40	Period of Record Data collected 1960 - present; some parameters were collected for this entire period most were athered for a shorter period.	4d.	Geographic Unit(s) of Measurement NAFO zone, latitude, longitude, in-house unit.
41.	Update Frequency Irregular.	4e.	Period of Record Late 1940s - present (variable depending upon dataset).
4	Detebase Underen Confirmation Come date is some files attested	41.	Update Frequency Daily to annually, depending upon dataset
њġ.	IBM compatible microcomputer.	4g.	Database Hardware/Software Configuration VAX computer with custom software.
4h.	Output Format(s) (tables, maps, etc.) Tables.	4h.	Outp-ut Format(s) (tables, maps, etc.) Tables.
5.	Restrictions and Conditions In some cases, data may have been collected at industry request. Permission may have to be granted for its use.	5.	Restrictions and Conditions Requests from outside the Branch must be in writing; Branch has first publication rights and results of analyses are to be shared with the Branch.
6.	Price Information No charge.	6.	Price Information No charge for small requests; cost recovery for others.
7.	Corresponding Printed Sources None.	7.	Corresponding Printed Sources Data from this database are published as journal
8.	Languages Database is in English.		articles, Departmental reports, and research documents from the International Council for the Exploration of the Seas, the Northwest Atlantic Fisheries Organization and the
9.	User Aids Available None.		Canadian Atlantic Fisheries Scientific Advisory Committee
10	Keywords Aquatic ecosystems; Contaminants, Fish; Fisheries; Newfoundland; Shellfish.	Β.	Languages The database and reports are in English.
11.	Additional Information	9.	User Aids Available Complete coding specifications and file labels are available.
	data will likely be added within a year. Eventually, the database will be on a mainframe computer, but the type has not yet been determined.	10.	Keyvorde Aquatic ecosystems; Fish, Fisheries; International; Labrador; Newfoundland.
	2. Mercury and bacteriological data are collected through a regular monitoring program while other data are collected for specific studies.	11.	Additional information None.

Fisheries and Oceans: Newfoundland Region

	Newfoundland Freshwater and Anadromous Fish Database (FAFP)	Newfoundland Groundfish Database (GFISH)
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Three files for each species (research vessels surveys, plant sampling,
2a.	Summary Description of Contents Biological and harvest data for freshwater and	incidental sampling).
OL.	anadromous fish species in Newfoundland and Labrador.	2a Summary Description of Contents Data on biology, catch and effort for recreational and commercial fisheries in the Newfoundland-Labrador region.
20.	Purpose of the Database To obtain data for use in fisheries management.	2b. Purpose of the Database To assess the fish stocks for fisheries management
За.	Name and Address of Responsible Organization Science Branch, Department of Fisheries and Oceans, Box 5667, St. John's, Newtoundland, A1C 5X1.	purposes.
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. M. C. Mercer (709) 772-2027	 Name and Address of Responsible Organization Science Branch, Department of Fisheries and Oceans, Box 5667, St. John's, Newfoundland, A1C 5X1.
Эс.	Access Mechanisms Through the responsible organization.	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. M. C. Mercer (709) 772-2027
4 a.	Variables Included (summarized if extensive) - fish species (salmon, char, stickleback)	3c. Access Mechanisms Through the responsible organization.
	- zooplankton (biomass)	4a. Variables Included (summarized if extensive)
	 fish characteristics 	- species (cod, rock cod, haddock, plaice, yellowtail flounder, witch flounder,
	 water quality data location 	turbot, redfish, halibut, grenadier, skate) - age
		- growth
4b.	Geographic Coverage Newloundland and Labrador.	- weight analysis
		- length
4C.	Data Acquisition Method(s) Field data from fishway counts, fishermen and catch	- catch effort
	san ping.	
4d.	Geographic Unit(s) of Measurement River coding system, longitude, latitude.	- tagging data
4.0	Period of Percent Mariable, Into 1040's research depending on the detect	- \$9X
40,	Penou of Pacoro Vanable, late 1940's - present, depending on the dataset.	- location
4f.	Update Frequency Variable, depending on dataset.	4b. Geographic Coverage Newfoundland and Labrador, inshore and offshore waters.
4g.	Database Hardware/Software Configuration VAX 8600 computer with custom software.	4c. Data Acouisition Methodis) Data collected through research vessel surveys plant
41	Output Competer Hobies many etc.) Tables	sampling, incidental sampling.
41.	Output Formatis) (tables, maps, etc.) Tables.	4d. Geographic Unit(s) of Measurement NAFO zones, latitude, longitude, in-house units.
5.	Restrictions and Conditions Requests from outside the Branch must be in writing, Branch has first publication rights and results of analyses are to be shared with the Branch.	4e. Period of Record Variable; 1940's - present.
6.	Price Information No charge for small requests, cost recovery for others.	41. Update Frequency Variable, depending on dataset.
7.	Corresponding Printed Sources Data are published as journal articles, Departmental reports and research documents from the Canadian Atlantic Fisheries Scientific Advisory Committee	4g. Database Hardware/Software Configuration VAX 8600 computer with custom software.
R	Lenguerone. The detelors and reports are in English	4h. Output Format(s) (tables, maps, etc.) Tables.
9.	User Aids Available Complete coding specifications and file labels are available	 Restrictions and Conditions Requests from outside the Branch must be in writing; Branch has first publication rights and results of analysis are to be shared with the Branch
10.	Keywords Anadromous; Aquatic ecosystems; Fish; Fisheries; Freshwater; Labrador;	6. Price Information No charge for small requests, cost recovery for others
	Newtoundland; Salmon.	7 Corresponding Printed Sources Data are sublished as inumal sticler. Departmental
11.	Additional Information A stream catalogue describes fish habitat (occurrence of gravel, spawning and rearing areas, obstructions, productive capability) for most of the major rivers in the region.	reports and research documents issued by the Canadian Atlantic Fisheries Scientific Advisory Committee, International Council for the Exploration of the Seas, North Atlantic Fisheries Organization.
		8. Languages The database and reports are in English.
		9. User Alds Available Complete coding specifications and file labels are available.
		 Keywords Aquatic ecosystems; Cod; Fish; Fisheries; Groundfish; Labrador; Newfoundland.
		11. Additional Information None.

Fisheries and Oceans: Newfoundland Region

	Newfoundland Invertebrate Data (INVERT)		Newfoundland Pelagic Fish Database (PELAG)
	(
1.	Datafile Name(s) Three files for each species (research vessel surveys, plant sampling, incidental sampling).	t	Evatafile Name(s) Not applicable
2a.	Summary Description of Contents Biological, catch and effort data for the invertebrate fisheries of Newfoundland and Labrador.	2a.	Summary Description of Contents Largely biological data on pelagic fish and plankton collected in Newfoundland and Labrador waters
2b.	Purpose of the Database. To provide data for invertebrate stock assessment for fisheries management purposes.	2b.	Furpose of the Database To provide data for fish stock assessment and fisheries management
3a.	Name and Address of Responsible Organization Science Branch, Department of Fisheries and Oceans Box 5667. St. John's Newfoundland, A1C 5X1.	3a.	Name and Address of Responsible Organization Science Branch, Department of Fisheries and Oceans, Box 5667, St John's Newfoundland, A1C 5X1
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. M. C. Mercer. (209) 772-2027	Зb	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Nr. M. C. Mercer. (709) 772-2027
30	Access Mechanisms Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) species (shrimps, crab, scallop, squid, octopus)	4a.	V sriables included (summarized if extensive) - species (capelin, herring, plankton, mackerel, sand lance) - fish size, sex, age
	 squid (catch, effort, length, weight, sex) scallop (meat weights, catch) shrimp (length, frequency, catch) 	4b.	Geographic Coverage Newfoundland and Labrador waters.
	location, date	40	Diata Acquisition Method(s) Data collected through research vessel surveys, tish plant sempling and incidental sampling.
4b.	Geographic Coverage Newfoundland and Labrador manne waters.	4d.	G-sographic Unit(s) of Measurement NAFO zones, latitude, longitude, in-house units.
4c	Data Acquisition Method(s) Data collected through research vessel surveys, plant sampling, incidental sampling	40.	Period of Record Variable; late 1940s to present, depending upon dataset
4d.	Geographic Unit(s) of Measurement NAFO zones, latitude, longitude, in-house units.	41	Update Frequency Variable, depending on dataset
40.	Period of Record Variable, late 1940's - present.	49	Detabase Hardware/Software Configuration VAX 8600 computer with custom software.
41.	Update Frequency Variable, depending on dataset.	4h.	Output Format(s) (tables, maps, etc.) Tables.
4g	Database Hardware/Software Configuration VAX 8500 computer with custom software	5.	Restrictions and Conditions Requests from outside the Branch must be in writing; Branch has first publication rights and results of analysis are to be shared with the Branch.
4h	Output Format(s) (tables, maps, etc.) Tables.	6.	Pr ce information No charge for small requests, cost recovery for others
5.	Restrictions and Conditions Requests from outside the Branch must be in writing; Branch has first publication rights and results of analyses are to be shared with the Branch	7_	Corresponding Printed Sources Data are published as journal articles. Departmental reports, Research documents issued by the Northwest Atlantic Fisheries Organization and
6.	Price Information No charge for small requests; cost recovery for others.		the Canadian Atlantic Fisheries Scientific Advisory Committee.
7.	Corresponding Printed Sources Data are published as journal articles, Departmental manuscript and data reports, and research documents from the Northwest Atlantic Fisheries Organization and the Canadian Atlantic Fisheries Scientific Advisory Committee.	8	Lengueges The reports and database are in English. User Aids Available Complete coding specifications and files labels are available.
8.	Languages The reports and database are in English	10	Keywords Aquatic ecosystems; Fish; Fisheries; Herring; Labrador; Newfoundland.
9.	User Aide Available Complete coding specifications and file labels are available.	11.	Additional Information None
10.	Keywords Aquatic ecosystems; Arthropods; Crab; Fish; Fisheries; Labrador; Lobster; Newtoundland; Molluscs; Scallop; Shrimp.		

11. Additional Information None.



FORESTRY CANADA

Forestry Canada Databases	Contact Name(s) and Phone Number(s)	Page
ACID RAIN IMPACT ASSESSMENT DATABASE	Ms. Katja Power (603) 589-2880	170
ACID RAIN NATIONAL EARLY WARNING SYSTEM (ARNEWS)	Dr. Ben Moody (613) 997-1107 Dr. J. Peter Hall (613) 997-1107	170
FOREST BIOMASS INVENTORY	Ms. Katja Power (613) 589-2880	171
FOREST FIRE STATISTICS DATABASE	Mr. Gordon Ramsey (613) 598-2880	171
FOREST INSECT AND DISEASE INFORMATION SYSTEM (FIDS)	Dr. Ben Moody (613) 997-1107	172
FOREST INSECT PEST PARASITE DATABASE	Mr. Lee Humble (604) 388-0600 Dr. Ben Moody (613) 997-1107	172
FOREST INVENTORY 1986	Ms. Katja Power (613) 589-2880	173
FOREST MANAGEMENT STATISTICS OF CANADA	Mr. James J. Farrell (705) 949-9461 Ms. Kathy L. Campbell (705) 949-9461	173
FOREST PEST INFESTATION MAPS	Dr. Ben Moody (613) 997-1107	174
FOREST RESOURCE AND DEPLETION ESTIMATION SYSTEM	Dr. Ben Moody (613) 997-1107	174
MICROCOMPUTER PERMANENT FOREST SAMPLE PLOT CATALOGUE	Mr. Dieter Kuhnke (403) 435-7271	175
NATIONAL FORESTRY DATABASE PROGRAM	Ms. Suzanne Gailloux (613) 997-1107 Nr. Brian Haddon (613) 997-1107	175
PRAIRIE-NORTHWEST TERRITORIES FORESTRY DATA BANK AND ARCHIVES	Mr. Dieter Kuhnke (403) 435-7271	176
PRAIRIE-NORTHWEST TERRITORIES FORESTRY INDUSTRY DATABASE	Mr. Dieter Kuhnke (403) 435-7271	176
SILVICULTURE STATISTICS	Nr. Dieter Kuhnke (403) 435-7271	177
VEGETATION MANAGEMENT ACTIVITIES FOR FORESTRY	Dr. Ed Oswald (604) 363-0687 Dr. Peter Hall (819) 997-1107	177

Forestry Canada

		1	
	Acid Rain Impact Assessment Database		Acid Rain National Early Warning System (ARNEWS)
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on acid rain deposition rates and effect factors for species in eastern Canada.	2a.	Summary Description of Contents A national database on tree growth and condition and acid rain levels.
26.	Purpose of the Database To predict the risk of acid rain to forested areas of eastern Canada.	2b.	Purpose of the Database To monitor forest health and assess the impacts of environmental stress.
3a. 3b	Name and Address of Responsible Organization Petawawa National Forest Institute, Forestry Canada, Box 2000, Chalk River, Ontario, KOJ 1J0.	За.	Name and Address of Responsible Organization Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0
3c.	Ms. Katja Power (613) 589-2880 FAX: (613) 598-2275 Access Mechanisms Through the responsible organization.	ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Ben Moody, Dr. J. Peter Hall, Forestry Canada, Ottawa, Ontario K1A tG5 Telephone: (613) 997-1107 FAX: (613) 990-3437
4a.	Variables Included (summarized if extensive) - rainfall (5-year mean annual)	3c.	Access Mechanisms Through the contact persons.
	- pH	4a.	Variables Included (summarized if extensive)
	 deposition rates (sulphates, nitrates, kg/ha/yr) 		 tree (species, age, size, individual location) soils
4Ь.	Geographic Coverage Canada, east of Manitoba.	11	 sous foliage (nutrients - nitrogen, potassium, magnesium, phosphorus) annual tree assessment (condition pests acid rain effects)
4c.	Data Acquisition Method(s) Rainfall data from Atmospheric Environment Service.		 rainfall, rainfall pH
4d.	Geographic Unit(s) of Measurement Grid cells.		- growth (tree rings) - ground vegetation
4e .	Period of Record Rain data 1983 -1988		 woody species regeneration tree seed crops
4f.	Update Frequency Not planned.	4b.	Geographic Coverage 103 sample plots, in major commercial forestry communities
4g.	Database Hardware/Software Configuration VAX 780 computer with custom software.	4c.	across Canada Data Acquisition Method(s) Surveys conducted annually and every five years by the
4h.	Output Format(s) (tables, maps, etc.) Maps, Tables.	10	Department
5.	Restrictions and Conditions None	4d.	Geographic Unit(s) of Measurement Plots located by UTM grid.
6	Price Information No shares	40.	Period of Record 1984 - present
o. 7	Corresponding Printed Sources None	41	Update Frequency Annually or every five years.
8.	Languages The database is in English.	4g.	Database Hardware/Software Configuration VAX 750 computer with INGRES relational database management system
9	User Airle Aveilable None	46	Output Formation (tables more ato) Tables more
э.	WHEN PICE PIERREN TOTIO	4Π.	Output Format(s) (tables, maps, etc.) Tables, maps.
10	Keywords Acid precipitation; Biotic response; Contaminants; Forests.	5.	Restrictions and Conditions See contact person.
1 t_	Additional Information This database is in preparation	6.	Price Information No charge.
		7.	Corresponding Printed Sources D'Eon, S. (1989). Acid Rain National Early Warning System (ARNEWS) Plot Network. Information Report PI-X-91
		8.	Languages The report and database are in English; a French edition of the report is planned; the user aid is in both languages.
		9.	User Alds Available Magasi, L.P. (1988). Acid Rain National Early Warning System (ARNEWS) Manual on Plot Establishment and Monitoring. Information Report DPC-X-25.
		10.	Keywords Acid precipitation; Biotic response; Forests.
		11.	Additional Information None.

	Forest Blomass Inventory		Earact Fire Statistics Database
1.	Datalie Name(a) Not applicable	1	Dataf le Name(s) Segarate files for each province year national park
2a.	Summary Description of Contents A national inventory of forest biomass in Canada	2a.	Summary Description of Contents Statistics on forest fires, losses and fire control
26.	Purpose of the Database To inventory biomass as a potential future fuel (ENFOR	2b.	Purpose of the Database. To monitor trends in forest fire occurrence, to provide
3a	programy.	3a	oata for research and fire management budget preparation.
	National Forest Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K0J 1J0.		P.O. Box 2000, Chalk River, Ontario, K0J 1J0.
36.	Contact Person(s), Address (if different from 3e), Telephone and FAX Number(s) Ms. Katja Power (613) 589-2880 FAX: (613) 598-2275	3b.	Contexct Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gordon Ramsey (613) 598-2880 FAX: (613) 589-2275
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization
4a.	Variables Included (summarized if extensive)	4a.	Variables included (summarized if extensive)
	- land status		fire cause: human (recreation, railroad, forest industry: natural (lightning)
	- owpership		n imper of fires, area burned
	- qualities (site class stand age)		file size close
	data source (time of investery)		n o size class
	· data source (type or inventory)		- month
	- productive, unproductive		cation (Canada, province, territory)
	- she quality (potential production)		- Risses (land type, merchantable timber)
	stocking (stocked, Unstocked)		11'e control expenditures (actual, budgeted)
	- disturbance (cut over, burned, pest damage)		 suppression zones (location)
	- age (maturity, regeneration)		
	 forest type (hardwood, mixed wood, softwood) 	4b.	Geographic Coverage National.
	· access		
	 area (ha) biomass (merchantable trees); total above ground; per cent stem wood, stump wood, stump bark, stem bark, top, live branches, foliage 	4c.	Data Acquisition Method(a) Data collected from the Provincial and Territona governments and national parks.
	 biomass submerchantable trees year of inventory 	4d.	Geographic Unit(s) of Measurement Province, terntory.
4b.	Geographic Coverage All provinces and territories.	40.	Period of Record Data from 1990 - present; computerized post-1960.
4c.	Data Acquisition Method(e) Biomass of forest stands is estimated from provincial	-4t.	Update Frequency Annually
đđ	government inventory data.	49.	Databacase Hardware/Somware Configuration VAX 780 computer with custom software.
40	Period of Record 1984	4h.	Output Format(s) (tables, maps, etc.) Tables.
41	Update Frequency No update planned	5.	Restrictions and Conditions None.
4g.	Database Hardware/Software Configuration VAX 780 computer with ARC/INFO,	6.	Price Information No charge.
AL	FORTRAN, SAS	7.	Corresponding Printed Sources Annual Canadian Forest Fire Statistics (from 1940's - present)
991. 5	Bestrictions and Conditions None	8.	Languages Reports are bilingual; database is in English.
6.	Price Information No charge	9.	User Aids Available Canadian Forest Fire Statistics Database User's Manual (1986).
7.	Corresponding Printed Sources Bonnor, G.M. (1985). Inventory of Forest Biomass in	10.	Keyworde Forest fires; Forests; Lightning.
9	Canada	11.	Additional Information This database contains summary information; details can be obtained from the Provincial/Territorial governments.
9	User Aids Available None		
10,	Keywords Biomass; Forests; GIS; Trees.		
11	Additional Information Depart is available from the Dublications Distribution Office at the	1	

Institute.

Forestry Canada

	Forest Insect and Disease Information System (FIDS)	Forest Insect Pest Parasite Database
1.	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents A national database on the distribution of forest pests and pest hosts in Canada.	2a. Summary Description of Contents A national database of parasites found on forest insect pests.
2b.	Purpose of the Database To survey forest pest conditions in Canada.	2b. Purpose of the Database To inventory the occurrence of forest insect pest parasites.
За.	Name and Address of Responsible Organization Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.	3a. Name and Address of Responsible Organization Pacific Forestry Centre, Forestry Canada, 506 Burnside Road, Victoria, B.C., V8Z 1M5.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Lee Humble (604) 388-0600
Зс.	Telephone: (613) 997-1107 FAX: (613) 990-3437 Access Mechanisms Through the contact person	Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5 Telephone: (613) 997-1107 FAX: (613) 990-3437
40	Variables Instructed (automatived if autonative)	3c. Access Mechanisms Through either contact person.
48.	 pest species forest stand (dominant species, history, forest type, maturity, age, basal area, height) tree collection (species, place in crown, alive, dead) location (nearest town, UTM, administrative unit) 	4a. Variables Included (summarized if extensive) parasite species, number of parasites (alive, dead) emergence dates development stage additional information (see FIDS Infobase database)
	collection methods and collector date	4b. Geographic Coverage B.C. and Yukon.
4b.	Geographic Coverage National, 1.3 million records.	4c. Data Acquisition Method(s) Parasites taken from pest insects collected during pest
4c.	Data Acquisition Method(s) Data collected by federal and provincial governments and industry.	 4d. Geographic Unit(s) of Measurement Collection locations referenced to 10 km² blocks prior to 1986, 1 km² blocks thereafter.
4d.	Geographic Unit(s) of Measurement One km ² or 10 km ² areas affected, registered by UTM coordinates for one corner of these areas	4e. Period of Record 1800's - present.
4e .	Period of Record 1940 - present.	4f. Update Frequency Daily.
41.	Update Frequency Daily.	4g. Database Hardware/Software Configuration VAX 750 computer with INGRES relational database management system.
4g.	Database Hardware/Software Configuration VAX 750 computer with INGRES relational database management system.	4h. Output Format(s) (tables, maps, etc.) Maps.
4h.	Output Format(s) (tables, maps, etc.) Tables, maps.	5. Restrictions and Conditions Contact regional offices of Forestry Canada.
5.	Restrictions and Conditions Determined by Regional Offices.	6. Price Information No charge.
6.	Price information No charge.	7. Corresponding Printed Sources None (see 11).
7.	Corresponding Printed Sources Forest Insect and Disease Conditions in Canada. Other publications concern specific insect groups.	8. Lenguages The database is in English.
8.	Languages The first report and manual are bilingual; the other reports and the database are in English.	9. User Alds Available None. 10. Keywords Forests; Insects; Parasites; Pests.
9 . 10.	User Aids Available FIDS Infobase: The Forest Insect and Disease Information System Information report PI-X-65 (1986). Keywords Forests; Forestry; Insects; Pest hosts; Pesticides; Pests	 Additional Information A host-parasite list is being prepared. There are plans to expand the database to include northern Canada and Newfoundland parasite information.
11.	Additional Information The user aid is now out of print; it may be updated	 The parasite data are for pest insects collected and entered in the FIDS Infobase database (Forestry Canada). The information is held at the Petawawa National Forestry Institute at Petawawa, but data should be accessed through the regional offices

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	Forest Inventory 1986		Forest Management Statistics of Canada
1.	Datafile Name(a) Not applicable.	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents A national inventory of forest resources in Canada as of 1986.	2a.	Summary Description of Contents A national database on expenditures on forest management in Canada summarized by province or territory.
26.	Purpose of the Database To provide information about Canada's forests to the public.	26.	Purpose of the Database To determine the level of forest management activities in order to direct policy formulation, resource development agreements with the provinces and research programs
3a.	Name and Address of Responsible Organization. Forest Inventory Project, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, KOJ 1J0.	3a.	Name and Address of Responsible Organization Great Lakes Forestry Centre, Forestr Canaca, Box 490, Sault Ste Marie, Ontario, P6A 5M7
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Katja Power (613) 589-2880 FAX: (613) 598-2275	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. James J. Farrell. (705) 949-9461 Ms. Kathy L. Campbell. (705) 949-9461 FAX: (705) 759-5700
3c.	Access Mechanisms Through the responsible organization	30	Access Machanisms. Through the responsible organization
4a.	Variables included (summarized if extensive)	00.	Notes a macimi nativa i intorgin tito tosponismio organization.
	 ownership (native, federal, provincial, private), status land class (water, land, productive, non-productive, forest, non-forested) site quality 	4a.	Veriet.kes included (summarized if extensive) e::penditure type (silviculture, protection, resource access, inventory, research, timber management, administration/other)
	- stocking class		- e::penditure (total annual dollars)
	- maturity		 allency (rederal, provincial, industry)
	forest type predominant genus	4b.	Geographic Coverage National/provincial
	volume (m ³ /ha, 19 species groups)	4c.	Data Acquisition Method(s) Data obtained from Forestry Canada regional office
	- area (ha) - maturity class		provinces and the Canadian Pulp and Paper Association
	auxiliary information includes productivity (mean annual increment)	4d.	Geographic Unit(s) of Measurement Expenditures summarized by province, territory
4b.	Geographic Coverage All provinces and territories in Canada	4.0	Period of Record 1977 - present
4c.	Data Acquisition Method(s) Data from provincial governments. Source inventories, mostly	4f.	Update Frequency Every two years to date; annual update planned.
4.4		4g.	Database Hardware/Software Configuration NEC 386 SX with LOTUS 1-2-3.
40.	region, typically 100 km ² .	4h.	Output Format(s) (tables, maps, etc.) Tables.
40.	Period of Record 1986.	5	Restrictions and Conditions None
4 f.	Update Frequency New database is created every 5 years.	6	Price information No charge
4g	Database Hardware/Software Configuration VAX 780 and SUN workstation computer with ARC/INFO, FORTRAN, SAS, INGRES	7	Corresponding Printed Sources Forest Management Expenditures in Canada 1983 1985 Forest Management Statistics for Canada, 1977 - 1988.
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, graphics.	8	Languages The database is in English, the reports are bilingual.
5.	Restrictions and Conditions Some.	9	User /Lids Available The previously noted reports
6.	Price information No charge	10.	Keywurde Forest management, Forestry, Forests.
7.	Corresponding Printed Sources Canada's Forest Inventory, 1986 (1988). Canada's Forest Inventory 1986 - Technical Supplement (1989).	11.	Additional Information None.
8.	Languages The first report is in French and English, the second is in English with a French version in preparation, and the database is in English with French labelling options.		
9.	User Alds Available None		
10.	Keywords Forest inventory; Forest type; Forests; GIS; Land, Trees.		
11.	Additional Information The reports are available from the Publications Distribution Office at the Institute.		

Forestry Canada

	Forest Pest Infestation Maps		Forest Resource and Depletion Estimation System
	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable.
a.	Summary Description of Contents Data on the occurrence of major pest species in major forested areas across Canada.	2a.	Summary Description of Contents A national database describing forest pests, hosts and the occurrence of pest outbreaks.
b.	Purpose of the Database To monitor the annual spatial distribution of major forest insect pests.	2b.	Purpose of the Database To estimate forest losses due to insect activity and disease to assess implications.
a.	Name and Address of Responsible Organization Pest Management Systems, Petawawa National Forestry Institute, Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.	За.	Name and Address of Responsible Organization Pest Management Systems, Petawawa National Forestry Institute. Forestry Canada, P.O. Box 2000, Chalk River, Ontario, K1J 0J0.
b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5 Telephone: (613) 997-1107 FAX: (613) 990-3437	3b.	Contact Person(s), Address (if different from 3e), Telephone and FAX Number(s) Dr. Ben Moody, Forestry Canada, Ottawa, Ontario K1A 1G5 Telephone: (613) 997-1107 FAX: (613) 990-3437
C.	Access Mechanisms Through the contact person.	Зс.	Access Mechanisms Through the responsible organization.
a.	Variables Included (summarized if extensive) - outbreak severity and location (mapped extent) - pest species - control (methods, extent)	4a.	Variables Included (summarized if extensive) - pest (20 major species) - host distribution in Canada - outbreak (location, severity)
Ь.	Geographic Coverage Major forested areas in all provinces.		- insect - host interactions
c. d.	Data Acquisition Method(s) Mainly aerial and some ground surveys conducted by the Department and provincial governments. Geographic Unit(s) of Measurement Polygons of outbreak areas varying in size from	40. 4c.	Deta Acquisition Method(s) Data obtained from aerial surveys conducted by the Department and the Provinces, from the literature and from ground plot observation by the Department.
	100 hectares.	4d.	Geographic Unit(s) of Measurement Outbreaks are georeferenced.
θ.	Period of Record 1950's - present.	40.	Period of Record 1978 - 1987.
f.	Update Frequency Annually.	4f.	Update Frequency Annually
g.	Database Hardware/Software Configuration IBM microcomputer and VAX 780 computer with ARC/INFO software.	4g.	Database Hardware/Software Configuration VAX 750 computer with INGRES relational database management system
h.	Output Format(s) (tables, maps, etc.) Maps.	4h.	Output Format(s) (tables, maps, etc.) Maps.
	Restrictions and Conditions Contact regional offices.	5	Restrictions and Conditions Determined by the regional offices.
	Price Information No charge for report or data access.	6.	Price Information No charge.
	Corresponding Printed Sources The data are part of the Forest Insect and Disease Survey Information System annual report.	7.	Corresponding Printed Sources Examples of maps: Spruce Budworm Host Inventory, Manitoba (1986); Volume Loss from Unrealized Growth 1983-1987, Manitoba; Impact of
	Languages The report is bilingual; the database is mostly numbers.		Spruce Budworm Defoliation, Ontario.
	User Aids Available None.	8.	Languages The maps and database are in English; the user aid is bilingual.
0.	Keywords Forestry; Forests; GIS; Insecticides; Pests; Pesticides.	9.	User Aids Available Quantifying Forest Depletion by Pests Using GIS and Database Technologies (1989).
1.	Additional Information 1. The Regional Offices prepare the digitized maps and send them to the Petawawa National Second Leathing	10.	Keywords Forestry; Forests; Insects; trees; parasites; Pests.
	 The Pacific and Ontario regions also retain their own data. 	11.	Additional Information Data for Nova Scotia, Quebec and Manitoba are held at Chalk River while data for the other provinces are held in the regional offices.
	Microcomputer Permanent Forest Sample Plot Catalogue		National Forestry Database Program
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1	Datafile Name(s) Permanent plots, silviculture plots	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A catalogue of forested sites set aside as permanent control plots or silvicultural plots in Manitoba, Alberta and Saskatchewan.	2a.	Summuary Description of Contents Comprehensive database at the national level, with the emphasis on breadth of scope rather depth of detail
2b.	Purpose of the Database To maintain a current inventory of plots in the region for future growth and yield assessment and secondary research	2b.	Purpose of the Database To permit a description of the level of activity in the forest resource sector in any period, and to mark changes in the resource itself.
3a.	Name and Address of Responsible Organization Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5	За.	Name and Address of Responsible Organization Economic and Statistics Directorate, Forestry Canada, 75 Albert Street, Fourth Floor, Ottawa, Ontario, K1A 165.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dieter Kuhnke (403) 435-7271	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Suzanne Gailloux (613) 997-1107 Mr. Brian Haddon (613) 997-1107 FAX. (613) 992-9201
3c.	Access Mechanisms Through the responsible organization	30	Access Mechanisms Through the responsible organization
4a. 4b. 4c 4d.	Variables Included (summarized if extensive) year plot was established years remeasured availability of soit information slope sitvicultural methods site holder species plot composition (species %) Geographic Coverage About 4,500 plots in Manitoba, Alberta, Saskatohewan. Data Acquisition Method(s) Plot information from federal and provincial governments and companies Geographic Unit(s) of Measurement Individual plots referenced by NTS and UTM grids. Period of Record Early 1900's - present for plot establishment. Undete Executions.	4a. 4b. 4c. 4d.	Variat les included (summarized if extensive) forest inventory annual allowable cut timber harvest other forest products forest fire statistics involture statistics forest management expenditures government revenues Geographic Coverage National. Data / cquisition Method(s) Administrative and survey data from provincial and federal forestry agencies. Geographic Unit(s) of Measurement Province and territory Particul of Beographic Unit(s) of Measurement Province and territory
41 49	Update Prequency As sites resurveyed or new sites added Database Hardware/Software Configuration Data stored on VAX computer but	40.	Updato Frequency Annually.
4h.	available on IBM microcomputer disk. Output Format(s) (tables, maps, etc.) Tables, text.	4g	Databuse Hardware/Software Configuration PC computer with DBASE IV software
5	Restrictions and Conditions None.	4h	Outpu: Format(s) (tables, maps, etc.) Tables.
6.	Price information No charge.	5	Restrictions and Conditions None.
7.	Corresponding Printed Sources None.	6	Price information No charge
8.	Languages The database is in English.	7.	Corresponding Printed Sources Planned annual compendium of national forestry
9.	User Alds Available Microcomputer PSP Catalogue System User's Manual (1989).	8	Languages Bilingual.
1.0	Additional Information	9.	User Aids Available None.
11.	 Similar databases exist for New Brunswick, Quebec and B.C. Growth and yield data for the plots are held in a separate database (Tree Detail Database) on the mainframe computer with custom software 	10.	Keywords Forest inventory; Forest management; Forests, Forestry, Harvesting; Trees. Additional Information The National Forestry Database Program is an initiative of the Canadian Council of Forestry Ministers. It is a joint program of the provincial, territorial and

tederal forestry agencies.

Forestry Canada

	Prairie-Northwest Territories Forestry Data Bank and Archives		Prairie-Northwest Territories Forestry Industry Database
1.	Datafile Name(s) Not applicable	1. De	stafile Name(s) Not applicable
2a.	Summary Description of Contents A database describing management projects undertaken by Forestry Canada personnel in the Prairie Provinces and Northwest Territories.	2a. Su us	ummary Description of Contents Data on production, harvest and equipment sed in the forest industry for the Prairie Provinces and Northwest Territories.
26.	Purpose of the Database To maintain a permanent record of management projects initiated by Forestry Canada.	2b. Pt pr	urpose of the Database To provide current information on forestry company ofiles.
Ba.	Name and Address of Responsible Organization Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5	3a. Ne Ca	ame and Address of Responsible Organization Northern Forestry Centre, Forest anada, 5320-122 Street, Edmonton, Alberta, T6H 3S5
Ъ	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Dieter Kuhnke (403) 435-7271	3b Co Mi	ontact Person(s), Address (if different from 3a), Telephone and FAX Number(s) r. Dieter Kuhnke (403) 435-7271
20	Access Machanisms Through the responsible organization	3c. Ac	ccess Mechanisms Through the responsible organization
26.	Access mechanismus Through the responsible organization.	An Ve	utables included (summarized if extensive)
4.5	Variables Included (summarized if avtensive)	-+ci. v c	
P 63.	- study name and hose		company Jacotian (Intitude Jacoitude 117M)
	- location (description seconantic coordinates)		timber licences lesses
	- study synamic goographic coordinates)	-	unicer ricerces, reasons university
	- story synopsis		annual allowable cut (species, volume)
	- herbicide used		actual harvest (species, volume)
	- data format		products (innoer, pulp, etc.)
	- contacts		number of employees
	- contacto		figuration of employees
	 keywords 	-	supply area (wood source)
łb.	Geographic Coverage Prairie Provinces and Northwest Territories.	4b. Gr	eographic Coverage Prairie Provinces and Northwest Territories.
Ic.	Data Acquisition Method(s) Interviews with researchers, publication review	4c. De	ta Acquisition Method(s) Through personal communication and literature supplied t
ŧd.	Geographic Unit(s) of Measurement Variable, by project.	ine	dustry and provincial/terntorial governments.
le.	Period of Record Data 1920 - present; database initiated 1987.	40. Gi	eographic Unit(s) of Measurement Individual companies referenced by latitude ngitude, UTM.
ŝf.	Update Frequency Periodically.	4a. Pe	riod of Record 1988 - present.
lg.	Database Herdware/Software Configuration IBM microcomputer with DBASE and CLIPPER compiler.	4f. Up	odate Frequency Annually.
4h.	Output Format(s) (tables, maps, etc.) Text.	4g. Da da	atabase Hardware/Software Configuration VAX computer using INGRES Itabase software
5	Restrictions and Conditions None.	4h. Ou	utput Format(s) (tables, maps, etc.) Tables, text.
ð.	Price Information No charge.	5. Re	setrictions and Conditions None.
7.	Corresponding Printed Sources Database available on diskette.	6. Pr	ice Information No charge
3.	Languages Database is in English.	7. Co	prresponding Printed Sources None.
9.	User Aids Available Forestry Data Bank and Archives - User's Manual.	8. L.	nguages The database is in English.
10.	Keywords Alberta; Forest management; Forestry; Harvesting, Manitoba; Northwest Territories; Praines; Saskatchewan; Silviculture.	9. Us	er Aids Available None
11.	Additional Information	10. Ke Pr	ywords Alberta; Forestry, Forests; Harvesting; Manitoba; Northwest Territorie airies; Saskatchewan; Silviculture.
	 The project information is mailed out on two diskettes. It is hoped that users will insert their own studies into the database. 	11. Ad	Iditional Information Database also has an economic parameter component, includir neral economic indicators and forestry-specific parameters.

		1	
	Silviculture Statistics		Vegetation Management Activities for Forestry
1	Datafile Name(s) One for each province and forestry region.	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents A national survey of total annual hectarage under various silvicultural activities in Canada.	2a.	Summary Description of Contents Descriptions of management activities carried out by Forestry Canada.
2 b.	Purpose of the Database To monitor silvicultural activities.	2b.	Purpose of the Database To inventory vegetation management activities and assess activity priority.
3a.	Name and Address of Responsible Organization Northern Forestry Centre, Forestry Canada, 5320-122 Street, Edmonton, Alberta, T6H 3S5.	За.	Name and Address of Responsible Organization Pacific Forestry Centre, 506 West Burns de Road, Victoria, B.C., V8Z 1M5.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dieter Kuhnke (403) 435-7271	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. Er. Oswald. (604) 363-0687
3c.	Access Mechanisms Through the responsible organization.		Dr. Peter Hall, Research, Forest Science Directorate, Forestry Canada, Ottawa, Ontario K1A 1G5 (819) 997-1107
la.	Variables included (summarized if extensive)		
	regeneration (natural, by man)	3c.	Access Mechanisms Through either contact person.
	 planting type (age, species) stand tending (number of bestares) 	40	Varialitas Instanted (summarized if automatus)
	 stato tenoning (number of nectares) site preparation (prescribed burning, berbicide, scaribung) 	4a.	varanives included (summarized if extensive)
	 thinning, spacing 		title
	· pruning, fertilizing		· researchers
	- stand type, species		objectives
	- total cost		location (nearest town)
			site history
4b	Geographic Coverage National.		application of treatments
			• soils
4c.	Data Acquisition Method(s) From questionnaire sent to provincial and territorial	-	experimental design
	governments		measurements
			• results
4d.	Geographic Unit(s) of Measurement Province/territory, forestry region		• conclusion
40.	Period of Record 1975 - present.	4b.	Geographic Coverage National.
41.	Update Frequency Annually.	4c.	Data /icquisition Method(s) Project summaries submitted by Forestry Canada personnel.
4g.	Database Hardware/Software Configuration PC computer using DBASE IV software	4d.	Geographic Unit(s) of Measurement Individual projects referenced by nearest town.
46	Output Examples Habies many stat Tables	40.	Period of Record 1988 - present.
њгі.	Comput Pormande) (tables, maps, etc.) Tables.	41	Update Frequency Annually
5.	Restrictions and Conditions None.		
		49	Database Hardware/Software Configuration Mainframe computer with custom
6.	Price Information No charge		software in Victoria; microcomputer in Ottawa.
7.	Corresponding Printed Sources Three annual information reports. Silvicultural Statistics for Canada 1975-76 to 1979-80, 1975-76 to 1982-83, and an eleven year summary	4h.	Output Format(s) (tables, maps, etc.) Text.
	(microliche copies available). A booklet was published in 1990 that incorporates forest management expenditures. In 1989, a leatlet describing silviculture in Canada was	5.	Restrictions and Conditions None
	published for distribution to the general public and schools.	6.	Price Information No charge for data on reports.
В.	Languages Reports are in both English and French	7.	Corresponding Printed Sources Vegetation Management Activities of Forestry Canada: A Compendium of Summaries 1988-89.
9.	User Aids Available None.		
		8.	Languages Report in English; French translation in progress.
10.	Keywords Forestry; Forests; Silviculture, Trees.		
	A 4 4 4 4 A	9.	User Aids Available None.
11.	Addresses information	10	Manageria Count manageria Country Cit
	2 Both an annual and a fave year (more intermetive) report are classed. Place are to	10	Reywords Forest management; Forestry; Site preparation.
	include management expenditures in these publications as well. The first annual report has been published	11.	Addit onal information None.



HEALTH AND WELFARE CANADA

Health and Welfare Canada Databases	Contact Name(s) and Phone Number(s)	Page
ADDITIVE DATABASE SYSTEM (ADS)	Mr. Gary Trivett (613) 957-1316	180
INTERNATIONAL REGISTER OF POTENTIALLY TOXIC CHEMICALS DATABASE (IRPTC)	Mrs. Ruta Whittaker (613) 957-1506	180
MULTI-CITY ACID AEROSOL STUDY	Mr. Mark Raizenne (613) 957-1878	181
ONTARIO HOSPITAL ADMISSIONS AND AMBIENT AIR QUALITY	Dr. R. T. Burnett (H&WC) (613) 954-0170 Mr. C. Nair (SC) (613) 951-8387	181
PESTICIDE DATABASE SYSTEM (PDS)	Mr. Gary Trivett (613) 957-1316	182

Health and Welfare Canada

	Additive Database System		International Redister
	(ADS)		of Potentially Toxic Chemicals Database (IRPTC)
1.	Datafile Name(s) Not applicable.	1. 1	Datafile Name(s) There are 39 files (see contact person).
2a.	Summary Description of Contents Information on the amount of food additive permitted in food commodity for Canada, United States, CODEX and EEC.	2a. \$	Summary Description of Contents Information on the toxicity and behaviour of chemicals and on chemical regulation on a world - wide basis (Canadian regulations are included).
2b.	Purpose of the Database Comparison of levels of food additives allowed in food for Canada, United States, CODEX and EEC.	2b.	Purpose of the Database To assist in the evaluation of chemical hazards and to assist in the area of chemical legislation.
3a.	Name and Address of Responsible Organization Food Regulatory, International and Interagency Affairs Division, Health Protection Branch, Health and Welfare Canada, Tunney's Pasture, Ottawa, Ontario, K1A 0L2.	3a. I	Name and Address of Responsible Organization Monitoring and Criteria Division, Bureau of Chemical Hazards, Environmental Health Directorate, Health Protection Branch, Health and Welfare Canada, Ottawa, Ontario, K1A 0L2.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Trivett (613) 957-1316	3b. (Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mrs. Ruta Whittaker (613) 957-1506 FAX: (613) 954-2486
3c. 4a.	Access Mechanisms Through the responsible organization. Variables Included (summarized if extensive)	3c. /	Access Mechanisms Through the responsible organization (DATAPAC) and INTELMED.
	 food additives food commodities 	4a. 1	Variables Included (summarized If extensive)
4b.	Geographic Coverage International, including Canada, United States, EEC and CODEX Alimentarius.		 national and international chemical regulations LD 50's and other toxic effects (inhalation, oral, dermal) evaluations and appraisals (carcinogenicity, immunotoxicity, mutagenicity, neurotoxicity, reproduction, teratopenecity)
4c.	Data Acquisition Method(s) Through scientific and other literature including: Food Chemical News; CODEX Alimentarius Commission Reports; and various Food and Drug Regulations.		biological effects environmental fate tests treatment and disposal methods for chemicals
4d.	Geographic Unit(s) of Measurement Not applicable	4b. (Geographic Coverage International, including Canada.
4e .	Period of Record 1989 to present.	4c. 1	Data Acquisition Method(s) Through a worldwide network of national correspondents
4f.	Update Frequency As required. As a minimum, yearly.		and international organizations (e.g. World Health Organization) as well as the scientific iterature.
4g.	Database Hardware/Software Configuration IBM and compatible microcomputers with DBASE III PLUS software	4d. (Geographic Unit(s) of Measurement Not applicable.
4h.	Output Format(s) (tables, maps, etc.) Reports by food additive or by food commodity.	4e.	Period of Record Pre-1976 to present.
5	Restrictions and Conditions None	4f.	Update Frequency Daily at IRPTC, Geneva; semi-annually in Canada.
6.	Price Information No charge.	4g.	Database Hardware/Software Configuration HP 3000 Micro-XE computer with MINISIS database management system.
7.	Corresponding Printed Sources None.	4h.	Output Format(s) (tables, maps, etc.) Abstracted information with legislative references for legal file, bibliographic, semi-numeric format for all other files.
8.	Languages Database and reports are only available in English.	c	
9.	User Aids Available Database is menu driven. A users manual is available.	5.	
10.	Keywords Food; Food additives; International; United States.	6.	Price Information Cost recovery through Infohealth; no charge through direct Datapac access.
11	Additional Information This database may soon be available on-line.	7.	Corresponding Printed Sources 1. IRTPC Legal File (1986). 2. Treatment and Disposal Methods for Waste Chemicals (1985). The above two publications deal with only 2 of the 39 files, and are not current.
		8.	Languages Query software is bilingual; toxicological and environmental information is in English only; regulatory information for the province of Quebec will be bilingual.
		9.	User Aids Available User manual; help line 1-800-267-3364.
		10.	Keywords Chemicals; Contaminants; Health; Toxic effects; Toxics.
		11.	Additional Information The database is being expanded to include Canadian provincial legislative information.

		-	
	Multi-City Acid Aerosol Study		Ontario Hospital Admissions and Ambient Air Quality
1.	Datafile Name(s) One for each town	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A five-year study on respiratory conditions and air quality in Canadian and American cities conducted jointly by this Department and Harvard University.	2a.	Summary Description of Contents Daily numbers of hospital admissions from 1983-1988 for all acute care hospitals (184) in Ontano plus corresponding information on ambient air pollution levels.
2Ь.	Purpose of the Database To examine the relationship between respiratory condition and air quality.	2b.	Purpuise of the Database To examine the relationship between hospital admissions for respiratory illnesses and ambient air pollution in Canada.
3a. 3b.	Name and Address of Responsible Organization Environmental and Occupational Toxicology Division, Health Protection Branch, Health and Welfare Canada, Building B, Tunney's Pasture, Ottawa, Ontario, K1A 0L2. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	За.	Name and Address of Responsible Organization Biostatistics and Computer Applications Division, Environmental Health Directorate, Health and Welfare Canada, Ottawa, Ontario, K1A 0L2 Health: Care Section, Canadian Centre for Health Information, Statistics Canada, Ottawa, Distario, K1A 0T6
	Mr. Mark Raizenne (613) 957-1877 FAX: (613) 952-9798	3b.	Contect Person(s), Address (if different from 3a), Telephone and FAX Number(s)
3c.	Access Mechanisms Through the responsible organization.		Dr. R. T. Burnett (HW) (613) 954-0170 FAX (613) 952-9798 Mr. C. Nair (SC) (613) 951-8387 FAX: (613) 951-0792
4a.	Variables Included (summarized if extensive) date, individual, community, school, lung function variables air quality (acid level, sulphur dioxide, nitrogen dioxide, ozone, particulates)	3c.	Access Mechanisms Through the responsible organization.
	 indoor environment quality respiratory illness other demographic variables 	4a.	VarialNes Included (summarized if extensive) - daily number of emergency hospital admissions for respiratory illnesses by hospital for 184 acute care hospitals in Ontario
4b.	Geographic Coverage 24 cities in the U.S. and Canada		 daily levels of sulphur dioxide, nitrogen dioxide, ozone, particulate matter, sulphates, nitrates, temperature, wind chill and humdex measured in all
4c.	Data Acquisition Method(s) The Department is handling distribution to Canadians but returning the results to Harvard for analysis. Harvard is also coordinating the air monitoring		Environment Canada
	work	4b.	Geographic Coverage Ontario.
4d.	Geographic Unit(s) of Measurement Individuals by school and by community. Period of Record 1987 - 1992.	4c.	Data .Acquisition Method(s) Hospital admission data obtained from the Ontario Ministry of Heilith and air pollution data obtained from the Ontario Ministry of the Environment and Environment Canada.
41.	Update Frequency New cities are monitored each year.	4d	Geographic Unit(s) of Measurement Site-specific in Ontario.
49	Database Hardware/Software Configuration Undetermined	40.	Period of Record January 1, 1983 - December 31, 1988.
4h	Output Format(s) (tables, maps, etc.) Tables, graphs, text.	41	Update Frequency: On a yearly basis.
5.	Restrictions and Conditions The data are the property of Harvard University.	4g.	Database Hardware/Software Configuration Mainframe computer at Statistics Canada: data analyzed by SAS
6.	Price Information Undetermined	44	
7.	Corresponding Printed Sources None	4n.	Curper remarks (tables, maps, etc.) Tables, maps.
8.	Languages Database and reports are only available in English.	D.	Prise records and conditions Data restricted to Statistics Canada.
9.	User Aids Available None.	0.	итотпатоп на аррісарія.
10.	Keywords Acid precipitation; Air quality; Health	1.	Corresponding Printed Sources A preliminary report has been prepared.
11.	Additional Information This is a five-year study. The results are the property of Harvard University and will not be released until the study is completed, probably in the mid 1990's.	8	Languages Database and reports are only available in English. User Alds Available None.
		10.	Keywords Air pollution, Air quality; Health; Hospital admissions: Ontario
		11	Additional Information None

Health and Welfare Canada

	Pesticide Database System (PDS)
1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Information on Maximum Residue Limit (MRL) values for pesticides in food for Canada, United States, CODEX and EEC.
2b.	Purpose of the Database Comparison of maximum residue limits for pesticides allowed in food for Canada, United States, CODEX and EEC.
За.	Name and Address of Responsible Organization Food Regulatory, International and Interagency Alfairs Division, Health Protection Branch, Health and Welfare Canada, Tunney's Pasture, Ottawa, Ontario, K1A 0L2.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Trivett (613) 957-1316
3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) - Maximum Residue Limit - footnotes
4b	Geographic Coverage International, including Canada, United States, EEC and CODEX Alimentarius.
4c.	Data Acquisition Method(s) Through scientific and other literature including: Food Chemical News (USA); National Pesticide Residue Limits in Foods (Canada); CODEX Alimentarius Commission Reports; and Food and Drug Regulations (Canada).
4d.	Geographic Unit(s) of Measurement Not applicable.
40.	Period of Record 1989 to present.
4f.	Update Frequency As required. As a minimum, yearly.
4g.	Database Hardware/Software Configuration IBM and compatible microcomputers with DBASE III PLUS software.
4h.	Output Format(s) (tables, maps, etc.) Reports by pesticides or by food commodity
5.	Restrictions and Conditions None
6.	Price Information No charge
7.	Corresponding Printed Sources None.
8.	Languages Database and reports are only available in English.
9	User Aide Available Database is menu driven A users manual is available.

10. Keywords Contaminants; International; Pesticides; Residues; United States.

11. Additional Information This database may soon be available on-line.

INDIAN AND NORTHERN AFFAIRS CANADA

Indian and Northern Affairs Canada Databases	Contact Name(s) and Phone Number(s)	Page
DIAND NORTHWEST TERRITORIES ENVIRONMENTAL DATABASE	Mr. Ranjit Soniassy (403) 920-8233 Mr. Jim Umpherson (403) 920-8165 Ms. Jennifer Letourneau (403) 920-8241	185
GROUNDWATER DATABASE FOR THE NORTHWEST TERRITORIES	Mr. Vlado Schilder (819) 997-9623	185
GROUNDWATER DATABASE FOR YUKON	Mr. Vlado Schilder (819) 997-9623	186
LAND ADMINISTRATION SYSTEM (LAS)	Mr. Jim Barrett (613) 993-3760 Mr. George Booth (613) 993-3760	186
LARGE SCALE PHOTOGRAPHY FOREST MEASUREMENT DATA	Ms. Christine Boyd-Larsen (403) 667-3136	187
MINING AND MINERAL INFORMATION FOR THE NORTHWEST TERRITORIES	Ms. Carol Ellis (403) 920-8220	187
NORTHERN GRANULAR RESOURCE DATABASE	Mr. Bob Gowan (613) 994-7464	188
NORTHWEST TERRITORIES LAND INFORMATION SYSTEM (L.I.S.)	Ms. Annette McRobert (403) 920-8184	188
NORTHWEST TERRITORIES LAND USE REGIONAL PLANNING DATABASES	Mr. David Livingstone (403) 920-8558	189
NORTHWEST TERRITORIES MINING AND EXPLORATION DATABASE	Mr. Chuck Sanderson (403) 920-8126	189
NORTHWEST TERRITORIES SNOW SURVEY INFORMATION SYSTEM	Regional Hydrologist (403) 920-8251	190
NORTHWEST TERRITORIES TOXIC SPILLS MANAGEMENT SYSTEM	Mr. Scott Edwards (403) 920-8240	190
NORTHWEST TERRITORIES WATER QUALITY INFORMATION SYSTEM	I/Ir. Scott Edwards (403) 920-8240	191
PROTOTYPE NORTHERN MINING RECORDS SYSTEM	Regional Manager (403) 920-8235	191
RESIDUES IN ARCTIC WILDLIFE	Ms. Jill Jensen (819) 994-7451	192
SUMMARY OF WASTE SITES IN THE YUKON AND NORTHWEST TERRITORIES	Ms. Betty Ann Balfour (613) 997-0663	192
YUKON FOREST INVENTORY	Ms. Christine Boyd-Larsen (403) 667-3136 Mr. Peter Henry (403) 668-2263	193
YUKON LAND USE PLANNING GIS	Mr. Ross McLaughlin (403) 667-3151	193
YUKON MINFILE	Mr. Steve Morison (403) 667-3200	194
YUKON NORTHERN LAND USE AND TRANSACTIONS DATABASE	Mr. Joe Ballantyne (403) 667-3100	194

Indian and Northern Affairs Canada Databases	Contact Name(s) and Phone Number(s)	Page
YUKON SNOW SURVEY DATA	Mr. Rick Janowicz (403) 667-3223	195
YUKON STREAMFLOW DATA	Mr. Rick Janowicz (403) 667-3223	195
YUKON TIMBER PRODUCTION	Mr. Kim Rymer (403) 668-2263	196
YUKON WATER QUALITY DATABASE	Mr. Gerry Whitley (403) 667-3217	196

	DIAND Northwest Territories Environmental Database		Groundwater Database for the Northwest Territories
1_	Datafile Name(s) One for each project.	1.	Detafi e Name(s) Not applicable
2a.	Summary Description of Contents Environment and water quality data associated with industrial projects on land and offshore for the Northwest Territories.	2a.	Summary Description of Contents Information on groundwater in the Northwest Terrifories.
26.	Purpose of the Database To perform environmental assessments and to monitor industrial projects for compliance with water quality requirements under the following acts: Northern Inland Waters, Arctic Waters Pollution Prevention, Territorial Lands,	2b.	Purpose of the Database To provide data for exploration and management of groundwater resources for engineering purposes.
3a.	and the Federal Environmental Assessment and Review Process/Order in Council. Name and Address of Responsible Organization Northern Affairs Program, Indian and	За.	Name and Address of Responsible Organization Environment and Renewable Resources Directorate, Indian and Northern Affairs Canada, 6th Floor, North Tower, 10 Wellin; ton Street, Hull, Québec, K1A 0H4.
34	Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
30.	Mr. Ranjit Soniassy (403) 920-8233 Mr. Jim Umpherson (403) 920-8165 Ms. Jennifer Lefourneau (403) 920-8241	30	Access Mechanisms Through the responsible organization
0.			
30.	Access Mechanisms Inrough the responsible organization	4.3	location of data collection
4a.	Variables Included (summarized if extensive)		- property ownership
	site location (latitude, longitude, town)		- guological data
	 poliutant concentration (mg/l) heavy metals (concert nickel mercury, zinc iran; 30 metals are monitored). 		- wrater level; yield; quality; chemistry
	major elements (calcium, magnesium) major elements (calcium, magnesium)	4b	Geographic Coverage Some areas of the Northwest Territories.
	 industrial pollutants (cyanide, sulphide) 	4c.	Data (coulsition Method(s) Well log drill hole geological information and water quality
	• oils/hydrocarbons		data collected by federal and territorial government departments, consultants, and private
	organic chemicals (PCB's, pesticides)		organizations and individuals.
	 radionuclides (uranium, radion gas) rare earth elements 	4d.	Geographic Unit(s) of Measurement Individual data collection sites.
4b.	Geographic Coverage About 40 projects in the Northwest Territories	40	Periocl of Record Database established in 1989.
4c.	Data Acquisition Method(s) Data submitted under act compliance by industry, collected by the Department or collected by consultants	4f.	Update Frequency Periodically as information is received.
4d.	Geographic Unit(s) of Measurement Monitoring stations located by latitude, longitude,	4g.	Database Hardware/Software Configuration Microcomputer with DBASE IV software
	town	4h	Output Format(s) (tables, maps, etc.) Recorts produced by computer
40.	Period of Record 1970's - present		
4f.	Update Frequency Monthly/annually, depending upon project	5.	Hearn creans and Conditions Intended as public information.
40	Detebase Manhunge/Coffware Configuration WANG computer with autom	6	Price information Not yet determined.
ay.	software.	7.	Corresponding Printed Sources Existing documents from which the database is being
4h.	Output Format(s) (tables, maps, etc.) Tables, maps.		compilied. A groundwater use register is to be developed.
5	Restrictions and Conditions The data are generally available	8.	Languages The database is in English
6	Price Information No charge	g.	User Aids Available None.
-		10	Keywords Groundwater; Northwest Territories; Water, Water quality; Water quantity.
1.	Corresponding Printed Sources Custom reports are prepared as required	11.	Additional information A publication describing the database has been prepared
8.	Languages The database is in English.		for the general public Groundwater Databases for Yukon and NWT. Environmental Studies No. 65, 1990. Cat. No. R71-09/65-1990E - ISBN-662-17678-2
9.	User Aids Available Forms are available describing the database.		
10.	Keyworde Contaminants, Effluents, Emissions; Environmental assessment; Industry; Mining, Northwest Territories, Pollutants; Water quality.		
11.	Additional Information This database contains information on background water quality as well as the quality of effluent discharged from drilling and mining operations		

1. Da 2a. Su 2b. Pu gro	ttafile Name(s) Not applicable. Immary Description of Contents Information on groundwater in Yukon. Impose of the Database To provide data for exploration and management of	 Datafile Nerre(s) Not applicable Summary Description of Contents Information on licences for oil and gas exploration and production in the Yukon, Northwest Territories and offshore areas of Canada
2a. Su 2b. Pu gro	mmary Description of Contents Information on groundwater in Yukon. uppose of the Database To provide data for exploration and management of	2a. Summary Description of Contents Information on licences for oil and gas exploration and production in the Yukon Northwest Tarritories and offshore areas of Canada
2b. Pu gro	rpose of the Database To provide data for exploration and management of	AND AND AND IN THE LANGE TRUNKING TOTAL OF A DESTRUCT OF OUR OF OCTOOR OF OCTOOR
	oundwater for engineering purposes.	2b. Purpose of the Database To monitor compliance with, and terms and conditions of, licences related to oil and gas operations.
3a. Na Re We	ame and Address of Responsible Organization Environment and Renewable esources Directorate, Indian and Northern Affairs Canada, 6th floor, North Tower, 10 ellington Street, Hull, Québec, K1A 0H4.	3a Name and Address of Responsible Organization Indian and Northern Affairs Canada, 10 Wellington Street, Hull, Québec, K1A 0H4.
3b. Co Mr	ontact Person(s), Address (if different from 3a), Telephone and FAX Number(s) r. Vlado Schilder (819) 997-9623 FAX. (819) 997-1587	Bits Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr Jim Barrett (613) 993-3760 Mr George Booth (613) 993-3760 FAX: (613) 993-9897 Mr George Booth (613) 993-3760
3c. Ac	ccess Mechanisms Through the responsible organization	3c. Access Mechanisms Through the responsible organization.
4a. Va	riables Included (summarized if extensive)	
-	location of data collection	4a. Variables Included (summarized if extensive)
•	property ownership	 licence type (exploration, significant discovery, production), date of issue/expiry
	geological data	and location (latitude, longitude)
	water level; yield; quality; chemistry	financial information
4b. Ge	eographic Coverage Yukon.	Ilcence ownersnip
	and the second	4b. Geographic Coverage Yukon, Northwest Territories and offshore Ganada.
4c. Da	ata Acquisition Method(s) Well log, drill hole, geological information and water quality	to Date Approximation Methodies, Licence documents and information submitted by industry
da	ta collected by tederal and territorial government departments, by consumants and by	4C. Data Acquisition method(s) Licence occuments and mornation submitted by mousely.
pri	vate organizations and individuals.	Ad Geographic Unit(s) of Measurement 1 and parcels of various sizes located by latitude
4d. Ge	eographic Unit(s) of Measurement Individual data collection sites.	and longitude.
4e. Pe	riod of Record Database established in 1989.	4e. Period of Record 1920's - present.
4f. Up	pdate Frequency Periodically as information received.	4f. Update Frequency As new licences are issued or terms of agreement are changed or fulfilled.
4a. De	atabase Hardware/Software Configuration Microcomputer with DBASE IV	
so	oftware	 Database Hardware/Software Configuration Data on microcomputer with DBASE software and some on VAX with ORACLE.
4h. 01	utput Format(s) (tables, maps, etc.) Reports produced by computer.	
		4h. Output Format(s) (tables, maps, etc.) Tables, maps, reports.
5. Re	estrictions and Conditions Intended as public information.	
		5 Restrictions and Conditions Under the Canada Petroleum Resources Act detailed
6. Pr	rice Information Not yet determined.	information on ownership, finances and compliance is confidential.
7. Ce	orresponding Printed Sources Existing documents from which the database is being	6. Price Information No charge.
CC	omplied, a groundwater use register is to be developed.	7 Compensating Printed Sources Canada Oil and Gas Lands Administration Annual
8. Li	anguages The database is in English.	Report.
9. Ui	ser Aids Available None.	 Languages The reports are prepared in English with capability to produce a billingual format.
10. Ke	eyworde Groundwater; Water; Water quality; Water quantity; Yukon	
		9. User Aids Available None.
11. A	dditional information	
1.	This database in under development through headquarters in Ottawa. It will be transferred to the Regional Office of DIAND in Whitehorse when complete.	 Keywords Energy; Exploration; Extraction, Frontier lands; Gas; Hydrocarbons; Minerals; Non-renewable resources; Northwest Territories; Oil; Yukon.
2.	A publication describing the database has been prepared by DIAND for the general	11 Additional information This database supports the land registration system (Rights
	1990. Cat. No. R71-09/65-1990E - ISBN-662-17678-2.	Registration Division) of National Energy Board which holds the supporting licence documents; this database is primarily a management tool, not a public information source.

	Large Scale Photography Forest Measurement Data		Mining and Mineral Information for the Northwest Territories
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on individual trees for the southern Yukon.	2a.	Summary Description of Contents Data on mineral claims, prospecting exploration projects and producing mines for the Northwest Territories.
2b.	Purpose of the Database To direct forest management.	2b.	Purpose of the Database To approve mineral claim and prospecting permits,
3a.	Name and Address of Responsible Organization Forest Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, V16 201	20	on metals geology, and assess trends in mineral exploration.
	TROM.	3a.	Division Indian and Northern Affairs Canada, Box 1500 Yellowing the Northwest Territories
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Christine Boyd-Larsen (403) 667-3136 FAX: (403) 668-2311		X1A 2R3
3с.	Access Mechanisms Through the responsible organization.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Carol Ellis (403) 920-8220 FAX: (403) 973-5763
4a.	Variables Included (summarized if extensive)	3с.	Access Mechanisms Through the responsible organization.
	tree species tree height	40	Variables Instuded (summarized If estimation)
	- crown area	4d.	mineral claims, deplodical regions, claim status
			 prospecting: number of permits: permit status: geological region
6 b.	Geographic Coverage Southern Yukon.		 exploration projects_geological region, commodity; exploration method; work result and number of projects
lc.	Data Acquisition Method(s) Large scale photography, digitizing		 value of mineral production, estimated production for each mine: location, operation history, current work, reserves
4d.	Geographic Unit(s) of Measurement Forest management units.	db	Georgenship Coverses Nethwest Territories
4e.	Period of Record 1981 - present	40.	cieugraphic coverage nonnwast remones.
4f.	Update Frequency Ongoing.	4c.	Data Acquisition Method(s) Monthly reports from the NWT government Mining Safet Division and reports from industry.
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with custom written basic software.	4d.	Geographic Unit(s) of Measurement Individual permits referenced by latitude and longitude.
4h.	Output Formet(s) (tables, maps, etc.) Tables	40	Period of Record 1969 - present
5.	Restrictions and Conditions None	41.	Update Frequency Annually or biennially (see 7).
6.	Price Information No charge	49	Database Hardware/Software Configuration Paper file and microfiche.
7.	Corresponding Printed Sources None.	4h.	Output Format(s) (tables, maps, etc.) Not applicable.
8.	Languages Database is mostly numbers.	5.	Restrictions and Conditions Drilling information on a property basis is confidential.
9.	User Aids Available None.	6.	Price Information No charge
10.	Keyworde Forest type; Forestry; Forests; Trees; Yukon. Additional Information None.	7.	Corresponding Printed Sources Annual report: Overview of Mining and Miners Exploration for the Northwest Territories. Biennial report: Mineral Industry Report for the Northwest Territories.
		8.	Languages Reports are in English.
		9.	User Lids Available None.
		10.	Keywards Exploration; Extraction; Minerals; Mining; Non-renewable resources; Northwes

11. Additional Information This data set is a series of reports that summarize information collected by other agencies.

	Northern Granular Resource Database		Northwest Territories Land Information System (L.I.S.)
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Land Information System
2a.	Summary Description of Contents Data for the Yukon and Northwest Territories on sand and gravel (aggregate) deposits that may be used as sources of construction materials.	2a.	Summary Description of Contents Database for Crown Land dispositions in the Northwest Territories.
26.	Purpose of the Database To support management of granular resources and their	2b.	Purpose of the Database Assists in the administration of the Territorial Lands Act and the Territorial Lands Regulations.
За.	Allocation to users. Name and Address of Responsible Organization Land Management Division, Natural Recourses and Economic Development Branch, Northern Affairs Program, Indian and	3a.	Name and Address of Responsible Organization Land Resources, Indian and Northern Affairs Canada, P.O. Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
-	Northern Affairs Canada, 10 Wellington Street, Hull, Québec, K1A 0H4.	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Annette McRobert (403) 920-8184 FAX: (403) 920-4669
30.	Mr. Bob Gowan (613) 994-7464 FAX: (613) 994-6419	3c.	Access Mechanisms Through the responsible agency.
3c.	Access Mechanisms Through the responsible organization.	4a.	Variables Included (summarized if extensive) - land information including: leases, permits, sales, reservations, easements etc.
4a.	Variables Included (summanzed if excensive) - study (references, general description) - granular source		purpose or osposition parcel size/location holder information
	Iocation (UTM, latitude, longitude) status (ownership, development, rating)	46	Geographic Coverage Northwest Territories.
	 surface description (area, slope, drainage, vegetation) field investigation (boreholes, test pits, natural exposures) 	4c.	Data Acquisition Method(s) Compliance under territorial acts and regulations for land
	she geology (overloaden and thess, grandar one, ordenying reservar) permafrost conditions laboratory test data (soil classification, moisture content, particle size)	4d.	Geographic Unit(s) of Measurement Individual disposition referenced by latitude,
	 volume calculations (total, total recoverable, annual recoverable) classes of material (volume proven, probable, prospective) 	10	longitude.
4b.	Geographic Coverage Yukon, Northwest Territories and the Beaufort Sea; presently about 2,000 sites.	41.	Update Frequency Daily (as information accumulates).
4c.	Data Acquisition Method(s) Areas delineated on air photos are surveyed in the field. Historical information from existing reports and government files.	4g.	Database Hardware/Software Configuration Paper files and DBASE III, CARBON COPY PLUS, FOXPLUS and RELATIONAL REPORT WRITER (R & R) software.
4d.	Geographic Unit(s) of Measurement Individual sources referenced by UTM, latitude, longitude	4h.	Output Format(s) (tables, maps, etc.) Tables.
40.	Period of Record 1970's - present (some areas incomplete).	5.	Restrictions and Conditions Specific document contents are not available.
41.	Update Frequency Periodically, as areas are surveyed or use changes.	6.	Price information Depends on the size and nature of request.
4g.	Database Herdware/Software Configuration IBM microcomputer with DBASE III,	7.	Corresponding Printed Sources Land Information Manual (in the Draft stage).
Ab	Durbust Formatife) (tables mans etc.) Graphs tables last maps	9	Larguages Database is in English.
5.	Restrictions and Conditions Some data on boreholes are restricted.		stage).
6.	Price Information Not yet determined.	10.	Keywords Land; Land dispositions; Land use; Northwest Territories.
7.	Corresponding Printed Sources Reports of studies conducted to provide data for the database are available for viewing in the Department library, some are on microfilm.	11.	Additional Information 1. The transactions file pertains to land dispositions. 2. The database covers many activities on territorial lands north of 60° latitude (south is is kiudeae and Lamos Paul)
8.	Languages The reports and database are in English.	-	 Activities include mineral, oil and gas exploration wells, geological surveys, roads, traile cabine residences tourism activities etc. The database focuses on all types
9.	User Aids Available None.		of land dispositions. 4 Conditions are attached to the dispositions to minimize environmental impact and
10.	Keywords Construction; Geotechnical; Gravel; Inventory; Northwest Territories; Permatrost; Yukon.		 ensure that areas are returned to their original condition as much as possible. 5. Follow-up data on these dispositions are in other files in the district offices; all disposition of the section of
11.	Additional Information This database is under development. The structure is in place but more information needs to be added to bring it up-to-date. Data post-1986 are digitized.		

		1	
	Northwest Territories Land Use Regional Planning Databases		Northwest Territories Mining and Exploration Database
1.	Datafile Name(s) One set of databases for each planning region.	1	Detafiki Name(s) Not applicable
2a.	Summary Description of Contents A GIS set of databases providing historic, present and projected land use in the Northwest Territories.	2a.	Summary Description of Contents Data on mineral production and exploration for approximately 7 mines and dozens of properties in the Northwest Territories.
26.	Purpose of the Database To facilitate development and monitoring of regional land use plans	2b.	Purpose of the Database. To support the ongoing evaluation of the economic impact of mining and exploration activities in the NWT.
3a.	Name and Address of Responsible Organization Land Use Planning, Indian and Northern Affairs Canada, P.O. Box 2280, Yellowknife, Northwest Territories, X1A 2P7.	За.	Name and Address of Responsible Organization Economic Services, Indian and Northern Attains Canada, P.O. Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. David Livingstone (403) 920-8558	3b	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr Chuck Sanderson (403) 920-8126 FAX: (403) 873-5763
3c.	Access Mechanisms Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables included (summarized if extensive) - - natural resources distribution (renewable, nonrenewable) - community use areas (hunting, fishing) - other uses (government, private) - period (historic, current, projected) - land status - use descriptions - location (latitude, longitude, UTM)	4a.	Variables Included (summarized if extensive) - mire or property name - owner(s) and operator(s) - corporate ownership structure - claim number - locition (NTS, exploration district) and size - mir eral potential - grade
46	Geographic Coverage Northwest Territories		 resinves production (projected, actual; year)
4c.	Data Acquisition Method(s) Data provided by regional land managers following database inventory.	4b.	expenditures (capital and/or operation and maintenance) Geographic Coverage Approximately 50 mines and properties in the Northwest Tartening
4d.	Geographic Unit(s) of Measurement Areas designated by latitude and longitude or UTM grid.	4c.	Data Acquisition Method(s) Through the Mining Recorder's Office, newspapers and periodic sts.
45	Indete Reminerer As efected because a stable	4d	Geographic Unit(s) of Measurement Mines referenced by NTS and exploration district.
фг. А.т.		40	Period of Record The database is kept current
€g.	SPANS.	41	Update Frequency Monthly to quarterly, depending on available time.
4h	Output Formet(s) (tables, maps, etc.) Tables, graphs, maps	49	Database Hardware/Software Configuration IBM compatible microcomputer with DBASE IV
5.	Restrictions and Conditions None	4	
6.	Price Information Currently no charge, policy will depend upon demand; media at cost.	- 41.	Output Pormat(s) (tables, maps, etc.) (ables.
7.	Corresponding Printed Sources Lancaster Sound Proposed Regional Land Use Plan. Interm Report Land Use Planning Commission (Mackenzie Delta - Beaufort Sea Region).	5.	restricted
В.	Languages Reports are in English.	6.	Price Information No charge at present.
9.	User Alds Available None.	7	Corresponding Printed Sources A periodic internal report will be prepared.
10.	Keywords GIS Land Land use Northwest Temlones Planning	8	Languages The database is in English.
		9	User Airls Available None.
11.	Additional Information 1 This database is under development. Currently some information is computenzed in the GIS and some is in reports or on magnetic tape. 2 The database is detailed and a some is in reports or on magnetic tape.	10.	Keywords Exploration; Extraction; Minerals; Mining; Northwest Territories; Non-renewable resources.
	Lancaster Sound region - inventory complete, computerization beginning Mackenzie-Beautort Sea region - complete inventory, partly computerized Other regions - inventory beginning and will be computerized at the same time.	11.	Additional Information This database is under development

	Northwest Territories Snow Survey Information System	Northwest Territories Toxic Spills Management System
1.	Datafile Name(s) Not applicable	1. Datafile Neme(s) Not applicable
2a.	Summary Description of Contents Periodic ground measured snow depth data for Northwest Territories.	2a. Summary Description of Contents An inventory of accidents involving spills of hazardous materials in the Northwest Territories.
2b.	Purpose of the Database To make moisture predictions for forest fire ratings, estimating water for reservoirs, flood forecasting, and pipeline monitoring.	2b. Purpose of the Database To monitor the occurrence and clean-up of toxic spills in the Northwest Territories.
3a.	Name and Address of Responsible Organization Water Resources, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.	3a. Name and Address of Responsible Organization Water Resources, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Regional Hydrologist (403) 920-8251 FAX: (403) 873-5763	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Scott Edwards (403) 920-8240 FAX: (403) 873-5763
3c.	Access Mechanisms Through the responsible organization.	3c. Access Mechanisms Through the responsible organization.
4a. 4b. 4c. 4d. 4e. 41. 4g. 4h. 5. 6.	 Variables included (summarized if extensive) snow depth water equivalent station location, snow density (latitude, longitude) Geographic Coverage About 50 stations in the Northwest Territories, mostly below treeline. Data Acquisition Method(s) Field data collection, monthly, semi-annually, annually. Geographic Unit(s) of Measurement Individual stations referenced by latitude and longitude. Period of Record 1965 - present. Update Frequency As field reports are submitted. Database Hardware/Software Configuration Paper file, LOTUS 1-2-3 file (computer database being written in DBASE IV). Output Format(s) (tables, maps, etc.) None. Restrictions and Conditions None. Price Information No charge. 	 4a. Variables included (summarized if extensive) material spilled and quantity location (description or latitude and longitude) significance (major, minor) industry type lead enforcement agency and lead follow-up agency area impacted party responsible hazards (persons, property, environment, multiple or none reported) 4b. Geographic Coverage Northwest Territories. 4c. Data Acquisition Method(s) Spills reported through compliance under various Acts or licences/permits. 4d. Geographic Unit(s) of Measurement Individual spills referenced by description or latitude, longitude 4e. Period of Record 1984 - present. 4f. Update Frequency Twice per month. 4g. Database Hardware/Software Configuration Some data on IBM compatible microcomputer with ZIM software, other data in paper file. 4h. Output Format(s) (tables, maps, etc.) Tables only.
7.	Corresponding Printed Sources Monthly snow survey bulletins were prepared during the spring months in 1982, 1983.	 Restrictions and Conditions Summary information is available but some source data are restricted.
8.	Languages The database is mostly numbers.	6 Price Information No charge
9.	User Aids Available None.	7. Corresponding Printed Sources None.
10.	Keywords Climate; Northwest Territories; Snow, Water quantity.	8. Languages Database is in English.
11.	 Additional Information Athough data are still collected, no snow survey reports are currently being prepared. Prior to 1985, the Atmospheric Environment Service (Environment Canada) produced an annual snow survey report that included the Northwest Territories data. Satellite-sensed snow water equivalent data for mainland compiled for 1979-present. Data will be available through this office. These and additional data of this type are available on a custom basis from. Ph.D. Associates, 107 Fordwich Crescent, Rexdale, Ontario, M9W 2T6. (416) 736-5295. A computer database is being prepared for the data and will include some data south of 60° in areas drained by NWT rivers. 	 User Aids Available The Toxic Spills Management System User's Manual (1989). Keywords Accidents; Hazardous materials; Monitoring; Northwest Territories; Spills; Toxics. Additional Information Custom reports summarizing the data by any of the parameters can be prepared. There are plans to prepare a five year summary report. All the data in this database are sent to Environmental Protection, Environment Canada, Yellowknife. However, they have not been forwarded to Ottawa for inclusion in the National Analysis of Trends in Emergencies System database (NATES) held by Environment Canada.

	Northwest Territories Water Quality information System		Protetype Northern Mining Passade Custom
1	Detutile Name(a) Not applicable	1	Detellis Nemelas Client Client Lang
20	Summary Description of Contents Water suplice data for the Madeuset		Datuster Transmitter (1) Claims, Client Lease
B. 00.	Territories.	Za.	Summing claims and subsequent leases for the Northwest Territories.
26.	Purpose of the Database To assist in developing water quality guidelines and assessing compliance	2b.	Purpose of the Database To maintain records for the administration of mining claims under the Territorial Lands Act
3a. 3b.	Name and Address of Responsible Organization Water Resources. Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.	3a.	Name and Address of Responsible Organization Mining Recorder Office, Northern Affairs Program, Indian and Northern Affairs Canada, Box 1500, Yellowknife, Northwest Territories, X1A 2R3.
20	Mr. Scott Edwards (403) 920-8240 FAX: (403) 873-5763	3b.	Context Person(s), Address (if different from 3a), Telephone and FAX Number(s) Regional Manager (403) 920-8235 FAX (403) 873-5763
	Access mechanisment inforgin the responsible organization	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive) 118 parameters including: organics; heavy metals; biochemical oxygen demand; pH;	4a.	Variables included (summarized if extensive)
	E-coli - location (latitude, longitude, description)		claims name, tag number, location (NTS), registered holder, claim history
	- project name		- cliumt
4b.	Geographic Coverage Northwest Territories		number number
4c.	Data Acquisition Method(s) Field sampling, municipality reports, mine compliance data.		number, owner, expiry date, location (NTS), annual rental
4d.	Geographic Unit(s) of Measurement Sample sites located by latitude and longitude	ale	enconcerences (uocuments registereo against lease)
40.	Period of Record 1985 - present	40.	Geographic Coverage Northwest Territories.
4f.	Update Frequency Periodically, as time permits. Has not been kept current due	46,	Deta A course to method(s) information reported to Department office.
4	to software problems to be corrected in a new version.	40.	Geographic Unit(s) of Measurement Individual claims, leases referenced by NTS.
4g.	software but is being rewritten to run on an HP 3000.	40.	Period of Record 1910 - present.
4h.	Output Format(s) (tables, maps, etc.) Tables in DIF format.	41.	Update Frequency Daily
5	Restrictions and Conditions None.	4 g.	Database Hardware/Software Configuration All data on IBM compatible microcomputer with modified DBASE software
6	Price information Usually no charge, but will depend on size of request.	4h.	Output Format(s) (tables, maps, etc.) Tables.
7	Corresponding Printed Sources None.	5.	Restrictions and Conditions Reports of work on claims are confidential for three years.
н	Languages The database is numbers with English headings	6.	Price Information No charge for information search, \$1 per page for printed information,
3	User Aids Available None.		very shall requests may be tree.
10	Keywords Northwest Territories; Water, Water quality.	7.	t. Mines and Minerals Statistics (monthly, annually).
11	Additional information This database is under development. There are plans to make	0	2. Activity Reports (weekly, monthly, annually)
		0	Lunguiliges Pamphiet in English and Inuktituk, database in English
		9	User A da Available Pamphlet describing claim staking and general information.
		10	Keywords Arctic, Extraction; Minerals; Mining; Northwest Territories; Non-renewable resources
		11	Additional Information
	Le la service de la contres		 This database is an index to claims and leases. Further data are held in paper files. This entire database, including details of claims and leases, is in the process of being computerized. On-line access by the public is proposed.

		-	Summary of Waste Sites in the Yukon
	Residues in Arctic Wildlife		and Northwest Territories
1	Datafile Name(s) Not applicable	t.,	Datafile Name(s) One for each territory and management division therein
2a.	Summary Description of Contents Data on levels of organochlorine pesticides and PCBs in wildlife in the Canadian Arctic.	2a	Summary Description of Contents An inventory of waste located and cleanup information for DIAND land in the Yukon and Northwest Territories.
2b.	Purpose of the Database To examine trends in contaminant levels in Arctic wildlife and to assess possible impacts of wildlife used as a human food source.	26.	Purpose of the Database To create a waste inventory for crown land in the territories to schedule cleanup, estimate costs and record details of cleanup activities.
3a.	Name and Address of Responsible Organization Environment Research and Services Division, Natural Resources and Economics Branch, Indian and Northern Affairs Canada, 4th floor, 10 Wellington Street, Hull, Québec, K1A 0H4.	За.	Name and Address of Responsible Organization. Northern Affairs, Indian and Northern Affairs Canada, 10 Wellington Street, Hull, Québec, K1A 0H4.
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Jill Jensen (819) 994-7451	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Betty Ann Balfour (613) 997-0663 FAX: (613) 994-6419
30.	Access Mechanisms Through the responsible organization.	Зс.	Access Mechanisms Through the responsible organization.
4a.	Variables included (summarized if extensive)	4a.	Variables Included (summarized if extensive)
	- species (ringed seals, caribou, polar bears)		- location (latitude, longitude)
	 location (description, latitude, longitude) 		 type (hazardous, non-hazardous)
	- sex, age		- owner
	- data source		 amount (significant, insignificant)
	 tissue analyzed, organochlorine pesticide level, PCB level 	41-	Commendate Commenter Video and Nethword Tendorice
46	Commentale Courses Consider Auto	40.	Geographic Coverage Yukon and Northwest Territories.
40.	Geographic Coverage Canadian Arctic.	4.	Date Assulation Methodia). Date cellected by regional new appal from historical records
40.	Data Acquisition Method(s) From the literature.	46.	and from other government departments.
4d.	Geographic Unit(s) of Measurement Sample sites recorded by latitude and longitude.	4d.	Geographic Unit(s) of Measurement Individual waste sites referenced by latitude and longitude
4e .	Period of Record 1988 - present.		
	The second se	40.	Period of Record 1989 - present.
4f.	Update Frequency Continuous.		
		41.	Update Frequency Ungoing.
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with custom software.	4g.	Database Hardware/Software Configuration Microcomputer with LOTUS 1-2-3 software
4h.	Output Format(s) (tables, maps, etc.) Tables,		
		4h.	Output Format(s) (tables, maps, etc.) Tables
5.	Restrictions and Conditions Only published data are released.		
		5.	Restrictions and Conditions None.
6	Price Information No charge	1.1	
		6	Price Information Not yet determined.
7.	Corresponding Printed Sources None.	-	
		7.	Corresponding Printed Sources None currently available
8	Languages Database is in English.		Languages, Database is in Capital
0	Liese Aide Aveilable None	0.	
5.	Vaci Alua Analiana India.	g	User Aida Available None
10	Keywords Arctic Biota Biotic response: Contaminants: Pesticides: Residues: Northwest		A A A A A A A A A A A A A A A A A A A
	Territories: Wildlife, Yukon	10	Keywords Arctic; Northwest Territories; Wastes; Waste inventory; Waste management; Yukon.
11.	Additional Information This database is currently being developed. More species will		
	be added in future and there are plans for adding mapping capability.	11.	Additional Information 1. This database is under development. Parameters in addition to those listed will

2. An annual internal report on existing waste and the cleanup progress is planned.

	Yukon Forest Inventory		Yukon Land Use Planning GIS
1.	Datafile Name(s) Not applicable.	1	Datafiki Name(s) Two files per 1:50,000 map sheet
2a.	Summary Description of Contents Management forest inventory for the southern Yukon.	2a.	Summury Description of Contents Data on land use and capability for two regions in Yukon.
2b.	Purpose of the Database To identify and describe the quality, location and extent of the Yukon's forest resource.	26	Purpose of the Database. For use in regional land use planning to resolve land use conflicts.
3a.	Name and Address of Responsible Organization Forest Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 918 - 200 Range Road, Whitehorse, Yukon, Y1A 3V1	За.	Name and Address of Responsible Organization Yukon Land Use Planning Directorate, Northern Affairs Program, Indian and Northern Affairs Canada, 308 Steele Street, Whitehorse, Yukon, Y1A 2C5
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Christine Boyd-Larsen (403) 667-3136 Mr. Peter Henry (403) 668-2263 FAX: (403) 668-2311	Зb.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(a) Mr. Rois McLaughlin (403) 668-6561 FAX (403) 668-4070
3c.	Access Mechanisms Through the responsible organization	3c.	Access: Mechanisms Through the responsible organization
4a.	Variables included (summarized if extensive) tree species composition minimum, maximum, average height average age presence of field samples (may be used to link to Large Scale Photography Forest Measurement Data) disturbances cown closure	4a.	Variables Included (summarized if extensive) - bedrock geology - agricultural capability - grizing capability, leases - forest inventory (productivity, age class) - timber permits - fishery habitat (freshwater, anadramous) - stream classification (lish habitat rating) - writer fragment
41-			- lar diuse permits
40. 4c	Date Acministion Method(a). Medium and Large scale photography field complex		- mineral occurrence - key wildlife habitats
	and requirement metroder mouthin and carge scale photography, ned samples		- hazards
40.	Geographic Unit(s) of Measurement All data reference to UTM co-ordinates.		- recreation potential
40.	Period of Record 1987 to present	4b	Geographic Coverage Southwestern Yukon and Greater Kluane Planning Region
4f	Update Frequency Ongoing.	4c	Data Acquisition Method(s) Government departments, native people.
49	Database Hardware/Software Configuration IBM compatible 386 microcomputer with PAMAP GIS software	4d.	Geographic Unit(s) of Measurement Data recorded by NTS and planning region.
4h.	Output Format(s) (tables, maps, etc.) Tables, maps, DBASE IV or compatible digital	40.	Period of Record Database created in 1989; data of various ages up to present
	1103	41	Update Frequency Under discussion.
5.	Hestrictions and Conditions None.	4g	Database Hardware/Software Configuration IBM compatible microcomputer with DBASE IV and PAMAP graphics software
6.	Price Information No charge.	4h	Output Format(a) (tables mans etc.) Tables mans
7.	Corresponding Printed Sources None	5	Bestrictions and Conditions Under discussion
B .	Languages Database is mostly numbers.		
9.	User Aids Available None.	6.	Price Information Under discussion
10.	Keyworde Forest inventory; Forestry; GIS; Trees, Yukon	7	Corresponding Printed Sources None.
11.	Additional Information None.	8.	Languages The database is in English.
		9.	User Aids Available Data dictionary for the territory.
		10	Keywords GIS; Habitats; Land use; Minerals; Physiography; Water; Yukon.
		11.	 Additi wal Information This database is under development and will eventually cover the entire territory. Of eight regions in the territory, work on the Southwest is completed, the Kluane is partially completed and information for the North is now being collected.

	And the second second second second second second		
	Yukon Minfile		Yukon Northern Land Use and Transactions Database
1	Datefile Name(s) Yukon Minfile	1	Datafile Name(s) Land Use Permits. Northern Land Transaction System
2a.	Summary Description of Contents A database containing information on all known mineral occurrences in the Yukon.	2a.	Summary Description of Contents Permit and lease data for crown land use in the Yukon.
2b.	Purpose of the Database To monitor mineral exploration activity and production and to assist industry.	2b.	Purpose of the Database To monitor and minimize the environmental impact of activities on crown land.
3a.	Name and Address of Responsible Organization Exploration and Geological Services Division, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.	3a.	Name and Address of Responsible Organization Land Use Section, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
36.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr Steve Morison (403) 667-3200 FAX: (403) 668-2176	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Joe Ballantyne (403) 667-3100
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the responsible organization
4a.	Variables Included (summarized if extensive) for each occurrence physical work description geological description location relative significance claims information commodity(s)	4a.	Variables Included (summarized if extensive) permits information bolder name cactivity information bocation lease information purpose of lease parcel size bocation boc
4b	Geographic Coverage Yukon and southwestern District of Mackenzie.	4b.	Geographic Coverage Yukon.
4c.	Data Acquisition Method(s) Reports from industry and field observations.	40.	Data Acquisition Method(s) Compliance under territorial regulations for permits and leases.
4d. 4e.	Geographic Unit(s) of Measurement Individual sites referenced by NTS. Period of Record 1961 - present.	4d.	Geographic Unit(s) of Measurement Individual permits/leases referenced by latitude, longitude and mapped at 1:50,000.
4f.	Update Frequency Annually.	4e.	Period of Record 1972 - present.
4g.	Database Hardware/Software Configuration Microcomputer with FOXBASE	4f.	Update Frequency As information accumulates.
4h.	Output Format(s) (tables, maps, etc.) Text and maps.	49.	Database Hardware/Software Configuration Paper files and some DBASE III and files.
5.	Restrictions and Conditions Database contains no confidential information.	4h.	Output Format(s) (tables, maps, etc.) Tables.
6.	Price Information Varies according to NTS sheet. Photocopying charges for all requests.	5	Restrictions and Conditions Permits - none; specific lease contents are not available.
7.	Corresponding Printed Sources Annual report	6	Price Information Depends on the size and nature of the request.
8.	Languages English.	7.	Corresponding Printed Sources None.
9.	User Aids Available Coding specifications and user guide available at terminal.	8	Languages The database is in English.
10.	Keywords Minerals; Mining; Yukon.	9.	User Aids Available None.
11.	 Additional Information Database information was purchased in paper form from Archer, Cathro and Associates (1981) Limited in 1989. The current computerized database system is modeled after the B.C. Minfile System. 	10.	Keywords Construction; Environmental restructuring; Land; Mining; Yukon. Additional Information This database is similar to that for the Northwest Territories, but the activities monitored in the database vary slightly between the two territories. For example, mineral claims are included in the NWT database but are not in the Yukon database.

	Yukon Snow Survey Data		Yukon Streamflow Data
1	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Data on snow quantity in the Yukon.	2a.	Summary Description of Contents Flow discharge data for 12 streams in the
26	Purpose of the Database To make moisture predictions for forest fire ratings, estimate water for reservoirs and forecast floods.	2 b.	Purpose of the Database To provide data for flood forecasting and engineering design of bridges, dams, etc.
3a.	Name and Address of Responsible Organization Water Resources Division, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.	3a.	Name and Address of Responsible Organization Water Resources Division, Indian and Northern Aflairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1,
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Rick Janowicz (403) 667-3223 FAX: (403) 667-2126	зь	Context Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr Rick Janowicz (403) 667-3223 FAX: (403) 667-2126
3c.	Access Mechanisms Through the responsible agency.	30	Access Mechanisms Through the responsible agency
4a.	Variables Included (summarized if extensive) - snow depth, water equivalent and snow density - station location (latitude, longitude; UTM) - station elevation	4a.	Variables Included (summarized if extensive) - sampling location (latitude, longitude) - fic w discharge (m ³ /sec)
4b,	Geographic Coverage 58 stations within the Yukon.	4b	Geographic Coverage 12 streams in the Yukon.
4c.	Data Acquisition Method(s) Field observations.	4c	Data Acquisition Method(s) Automated field recording stations.
4d.	Geographic Unit(s) of Measurement Individual sampling stations recorded by latitude, longitude, UTM.	4d	Geographic Unit(s) of Measurement Individual stations referenced by latitude and longitude.
4e.	Period of Record 1977 - present.	40.	Periocl of Record 1975 - present.
4f.	Update Frequency As data are collected.	4f	Update Frequency As data are collected.
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with DBASE IV software.	4 g.	Database Hardware/Software Configuration Mainframe computer with custom software
4h	Output Formet(s) (tables, maps, etc.) Tables.	4h.	Output Format(s) (tables, maps, etc.) Tables
5.	Restrictions and Conditions None.	5	Restrictions and Conditions None
6.	Price Information No charge for data or reports.	6	Price Information No charge for data or reports.
7.	Corresponding Printed Sources Monthly report. Yukon Territory Snow Survey Bulletin and Water Supply Forecast	7.	Corresponding Printed Sources Reports produced every two or three years: Historical summary, Yukon Water Resources Hydrometric Program (see 11).
8.	Languages Reports are in English.	8.	Languages Reports are in English
9.	User Aids Available None.	9.	User Aids Available None.
10.	Keywords Climate, Snow; Water quantity; Yukon	10.	Keywords Hydrology; Rivers; Streamflow; Water, Water quantity; Yukon.
11.	Additional Information 1. Data are collected during four months in the spring 2. Reports are available from the responsible agency. 3. Computerized graphic and mapping capability is being developed.	11	 Additional Information The most recent report contains 1975-1986 data and is available from the responsible agency. The database is being converted for use on a microcomputer with DBASE IV software.

- 3. Computerized graphic and mapping capability is being developed.

	Yukon Timber Production		Yukon Water Quality Database
1.	Datafile Name(s) Not applicable.	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A database on timber production on Territorial Lands for the Yukon	2a.	Summary Description of Contents Water quality data submitted by water licences in Yukon.
2b.	Purpose of the Database To collect data on timber production in order to prepare	2b.	Purpose of the Database To monitor compliance performance of water licences.
3a	Name and Address of Responsible Organization Forest Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1	За.	Name and Address of Responsible Organization Water Resources, Northern Affairs Program, Indian and Northern Affairs Canada, 200 Range Road, Whitehorse, Yukon, Y1A 3V1.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Kim Rymer (403) 668-2263 FAX: (403) 668-2311	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Gerry Whitley (403) 667-3217 FAX (403) 667-2126
30	Access Mechanisms Through the responsible organization	Зс.	Access Mechanisms Through the responsible organization
00.	Handrag Handragen Handragen Handragen and and an	4a.	Variables Included (summarized if extensive)
4a.	Variables Included (summarized if extensive)		 location (description) company (name, address)
	- products cut		- water parameters
	• species		• LC 50
	volume		heavy metals
	 value stumpage by product 	1	conductivity
	forest management district		
		4b.	Geographic Coverage Yukon.
4b.	Geographic Coverage Yukon.		The state of the second state of the Proceeding scheduling his system lines are heldered
4.	Pate Annulation Method(a). Timber namits timber beneating agreements	40.	Data Acquisition Method(s) Compliance data submitted by water licence holders.
40.	Data Acquisition Method(s) Timber permits, timber harvesting agreements	4d.	Geographic Unit(s) of Measurement Individual licences.
4d.	Geographic Unit(s) of Measurement Forest management districts.		
		40.	Period of Record Water quality: 1987 - present. Licensing: 1971 - present
4e	Period of Record Early 1950's - present		Market Francisco A success a builded
	Hadata Francisco Associate	41.	Update Frequency As reports are submitted.
41.	update Frequency Annually.	An	Database Hardware/Software Configuration IBM compatible microcomputer with
4g.	Database Hardware/Software Configuration Microcomputer with DBASE IV	.9.	DBASE IV software for water quality; licensing data in paper file.
Ť	software		
		4h.	Output Format(s) (tables, maps, etc.) Tables, graphs.
4h	Output Format(s) (tables, maps, etc.) Tables, text (reports)	5	Restrictions and Conditions None
5	Restrictions and Conditions None	J.	
		6.	Price Information No charge
6.	Price Information No charge.		
-	Dura was fine Directed Councils Marthly suredy and some accurate	7.	Corresponding Printed Sources None.
1	corresponding minied Sources Monthly reports and some annual reports.	8	Lengueges Database is mostly numbers.
8	Languages Database and report are in English.		
		9	User Aids Available None.
9.	User Aids Available None.		Manual West West Par Vision
10	Mannuarda Covertey Herverting Vilken	10	Keywords water, water quality, Yukon.
10.	Keywords Foresity, Harvesting, Yukon.	11.	Additional Information Not all the licences or mines are in the database (no place
11.	Additional Information None		mining, municipal, agricultural licences).

INDUSTRY, SCIENCE AND TECHNOLOGY CANADA

Industry, Science and Technology Canada Databases	Contact Name(s) and Phone Number(s)	Page
DIRECTORY OF MANUFACTURERS: ENVIRONMENTAL PRODUCTS	Mr. John Moran (613) 954-6181	198

Industry, Science and Technology Canada

Directory of Manufacturers: Environmental Products

- 1. Datafile Name(s) Not applicable
- 2a Summary Description of Contents The database contains the name, address, telephone number and type(s) of products available from manufacturing companies in Canada.
- 2b. Purpose of the Database Industrial promotion.
- Name and Address of Responsible Organization Environmental Industries and Projects Division, Industry, Science and Technology Canada, 235 Queen Street, Ottawa, Ontario, K1A 0H5.
- 3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. John Moran (613) 954-6181 FAX: (613) 954-3430
- 3c. Access Mechanisms Through the responsible organization.
- 4a. Variables included (summarized if extensive)
 - company name, address, telephone number
 - product(s) manufactured
- 4b. Geographic Coverage Canada.
- 4c. Data Acquisition Method(s) Not applicable.
- 4d. Geographic Unit(s) of Measurement Not applicable.
- 4e. Period of Record Not applicable.
- 41. Update Frequency Annual (January to March)
- 4g. Database Hardware/Software Configuration Microcomputer with DBASE III + software.
- 4h. Output Format(s) (tables, maps, etc.) Floppy diskettes and hardcopy printout
- 5. Restrictions and Conditions None.
- 6. Price Information No charge.
- 7. Corresponding Printed Sources Printed directory.
- 8. Languages Directory is bilingual, database is in English.
- 9. User Aids Available None.
- 10. Keywords Environmental products; Industry; Manufacturing.
- 11. Additional Information None.

NATIONAL ENERGY BOARD

National Energy Board Databases	Contact Name(s) and Phone Number(s)	Page
ENVIRONMENTAL AND FEASIBILITY STUDIES FOR OFFSHORE DRILLING	Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892	200
PHYSICAL ENVIRONMENTAL OBSERVATION AND MEASUREMENT PROGRAMS FOR OFFSHORE DRILLING	Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892	200

National Energy Board

	Environmental and Feasibility Studies for Offshore Drilling	Physical Environmental Observation and Measurement Programs for Offshore Drilling
1.	Datafile Name(s) Not applicable	1. Datafile Name(s) One for each parameter for each well/drilling program
2a.	Summary Description of Contents A collection of reports on studies related to ice, icebergs, waves, weather and climatic conditions with respect to drilling in the offshore	2a. Summary Description of Contents A collection of reports and digital data on environmental conditions in the vicinity of oil and gas wells/drilling operations in Canada's offshore.
2b.	Purpose of the Database To archive environmental studies conducted in support of determining the feasibility of offshore oil and gas operations.	2b. Purpose of the Database To monitor environmental conditions during oil and gas operations with respect to safety of personnel, the operation and the environment.
3a.	Name and Address of Responsible Organization National Energy Board, 311 6th Avenue SW, Calgary, Alberta, T2P 3H2.	3a. Name and Address of Responsible Organization National Energy Board, 311 6th Avenue SW, Calcary, Alberta, T2P, 3H2
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892 FAX: (403) 292-5503	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. G. K. Sato (403) 263-0892 Mr. A. O. Mycyk (403) 263-0892 FAX: (403) 292-5503 Mr. A. O. Mycyk (403) 263-0892
3c. 4a.	Access Mechanisms Through the responsible organization or through the operators that submitted the studies and reports to National Energy Board. Variables included (summarized if extensive) - meteorology (wind, cloud cover, temperature, visibility)	 Access Mechanisms Through the responsible organization. Other agencies (Marine Environmental Data Service (MEDS), Atmospheric Environment Service (AES), Bedford Institute of Oceanography (BIO) and Institute of Ocean Studies (IOS) receive copies of the data for archiving purposes.
	 waves (climate and extremes) and currents (regime and extremes) ice conditions (pack ice/icebergs) ice/icebergs (detection, prediction, characteristics, distribution, scour, forces) design criteria production facilities design 	4a. Variables Included (summarized if extensive) - well location (latitude, longitude) - meteorology (wind, clouds, temp, visibility) - waves (visual and waverider)
4b.	Geographic Coverage Canadian offshore including Arctic waters.	 currents (various depths) ice conditions (pack ice/icebergs) weather forecast verification
4c.	Data Acquisition Method(s) Various Geographic Unit(s) of Measurement Individual studies referenced by location where	date; operator; consultant date; operator; consultant db. Geographic Coverage Offshore areas including the Arctic.
	appropriate	4c. Data Acquisition Method(s) Reports and data tapes from oil and gas operators.
40.	Period of Record 1972 - present.	4d Geographic Unit(s) of Measurement Individual wells referenced by latitude/longitude
49.	Database Hardware/Software Configuration Paper file	4e. Period of Record 1972 - present.
4h	Output Format(s) (tables, maps, etc.) Tables, maps, text	4f. Update Frequency As reports are submitted
5.	Restrictions and Conditions For studies related to a specific drilling program there is a 5-year confidentiality period. Others are confidential indefinitely.	ragnetic tapes.
6.	Price Information May depend on the operator or company that commissioned the study.	4h. Output Format(s) (tables, maps, etc.) Text for paper file; prescribed format for tapes
7.	Corresponding Printed Sources A report is on file for each drilling project.	National Energy Board cannot release information.
8.	Languages The database is in English.	 Price Information No charge for information from reports; charges for analyzed information determined by archiving agent.
9.	User Alds Available None.	7. Corresponding Printed Sources Database is a series of reports. Analysis of the
11.	Additional Information	8. Languages Reports are in English.
	 Although the National Energy Board cannot release the data until the confidentiality period has expired, it may be possible to obtain the data from the company that 	9. User Aids Aveilable There is a bibliographic listing of reports.
	 Only studies done with respect to specific drilling programs are required to be submitted to the National Energy Board; these have a 5-year confidentiality period. Other projects submitted to National Energy Board as information items have unlimited 	 Keywords Currents; Energy; Exploration; Marine; Meteorology; Non-renewable resources; Waves.
	confidentiality periods and may be released only by the company that commissioned	11. Additional Information
	the study.	1. The database contains 400-500 files
		2. Raw data are stored on magnetic tape. Copies are sent to archiving agencies such as Marine Environment Data Service, Bedford Institute of Oceanography, Institute of Ocean Sciences, and the Canadian Climate Centre of the Atmospheric Environment Service. Each of these organizations analyzes and reorganizes the data relevant to their area of interest. National Energy Board retains copies of all tapes organized by well but enthesized by troic.
		 There is a lag between tape receipt and incorporation of the data into the databases of the organizations, except at MEDS.
		4. Although the National Energy Board cannot release data for specific wells within
		two years, it might be possible to obtain the data from the operator who submitted
		It. Further, the meteorological and ice/iceberg data are incorporated into AES real time analyses and used for weather and ice/iceberg oradistion.
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STATISTICS CANADA

Statistics Canada Databases	Contact Name(s) and Phone Number(s)	Page
AIRCRAFT MOVEMENT STATISTICS	Mr. Peter Bailie (819) 997-6185	203
ANNUAL CENSUS OF FORESTRY	Mr. Jacques Lepage (613) 951-3516	203
ANNUAL SURVEY OF MANUFACTURES (PART 1: NON-DURABLE GOODS /PART 2: DURABLE GOODS)	Mr. Carl Hebert (613) 951-3524	204
CANADIAN MORTALITY DATA BASE	Ms. Martha Fair (613) 951-1734	204
CAPITAL AND REPAIR EXPENDITURES, ACTUAL	Ms. Susan Horsley (613) 951-2589	205
CENSUS OF AGRICULTURE	Ms. Linda Kemp (613) 951-8711	205
CENSUS OF POPULATION	Ms. Rosalie Bambrick (613) 951-3968 Mr. Michel Séguin (613) 951-3958	206
CENSUS OF WILDLIFE PELT PRODUCTION	Mr. Peter Meszaros (613) 951-2505	206
COAL MINES	Mr. Dave Madsen (613) 951-3565	207
CORRUGATED BOXES AND WRAPPERS	Ms. Sandra Bohatyretz (613) 951-3531	207
CROP CONDITION ASSESSMENT PROGRAM (CCAP)	Mr. Ken Korporal (613) 951-3872 Ms. Norah Hillary (613) 951-3861	208
CRUDE PETROLEUM AND NATURAL GAS PRODUCTION	Mr. Gary Smallridge (613) 951-3567	208
ELECTRICITY SUPPLY/DISPOSITION QUARTERLY	Mr. Dave Madsen (613) 951-3565	209
ENVIRONMENTAL INFORMATION SYSTEM (GIS COMPONENT)	Mr. Phil Fong (613) 951-5638 Mr. Bruce Mitchell (613) 951-3742	209
ESTIMATES OF POPULATION BY MARITAL STATUS, AGE AND SEX FOR CANADA, THE PROVINCES AND THE TERRITORIES	Ms. Lise Champagne (613) 951-2320	210
FIELD CROP REPORTING SERIES	Mr. Oliver Code (613) 951-8719	210
FOR-HIRE (COMMODITY ORIGIN-DESTINATION) TRUCKING SURVEY	Ms. Kathie Davidson (613) 951-8779	211
GENERAL SOCIAL SURVEY - CYCLE 1 (GSS-85)	Mr. Ed Praught (613) 951-9180	211
GENERAL SOCIAL SURVEY - CYCLE 4 (GSS-89)	Ns. Ghislaine Villeneuve (613) 951-4995	212
HOSPITAL MORBIDITY	Ns. Rose-Marie Laflamme (613) 951-1639	212
HOUSEHOLD FACILITIES AND EQUIPMENT SURVEY (HFE)	Ms. Penny Barclay (613) 951-4634	213

Statistics Canada

Statistics Canada Databases	Contact Name(s) and Phone Number(s)	Page
HOUSEHOLD ENVIRONMENT SURVEY	Mr. Bruce Mitchell (613) 951-3742 Mr. M. Meere (613) 951-4637	213
INDUSTRIAL CONSUMERS OF ENERGY	Mr. Dave Madsen (613) 951-3565	214
LOCAL GOVERNMENT FINANCIAL MANAGEMENT STATISTICS · CAPITAL EXPENDITURES	Mr. Terry Moore (613) 951-8306 Mr. Robert Loggie (613) 951-1809	214
LOCAL GOVERNMENT GROSS REVENUE AND EXPENDITURES (ACTUAL DATA)	Mr. Terry Moore (613) 951-8306	215
MOTOR CARRIER - FREIGHT AND HOUSEHOLD GOODS MOVERS	Ms. Yasmin Sheikh (613) 951-2518	215
NATIONAL CANCER INCIDENCE REPORTING SYSTEM	Mr. Nelson Nault (613) 951-1746	216
NATIONAL FARM SURVEY (NFS)	Mr. Phillip Stevens (613) 951-2435	216
PASSENGER BUS AND URBAN TRANSIT STATISTICS (ANNUAL)	Ms. Yasmin Sheikh (613) 951-2518	217
PRODUCTION AND SHIPMENTS OF PLASTIC BOTTLES (BLOW-MOULDED)	Mr. Raj Sehdev (613) 951-3513	217
PRODUCTION, SHIPMENTS AND STOCKS ON HAND OF SAWMILLS EAST OF THE ROCKIES	Mr. Jacques Lepage (613) 951-3516	218
PRODUCTION, SHIPMENTS AND STOCKS ON HAND OF SAWMILLS IN BRITISH COLUMBIA	Mr. Jock Dobie (604) 666-2671	218
PROJECTIONS OF POPULATION, HOUSEHOLDS AND FAMILIES FOR CANADA AND THE PROVINCES	Ms. Jeanine Perreault (613) 951-2346 Dr. M.V. George (613) 951-9580	219
PROVINCIAL GOVERNMENT REVENUE AND EXPENDITURE (ESTIMATES AND ACTUAL DATA)	Mr. Terry Moore (613) 951-8306	219
ROAD MOTOR VEHICLE SURVEY (FUEL)	Ms. Yasmin Sheikh (613) 951-2518	220
ROAD MOTOR VEHICLES (REGISTRATION)	Ms. Yasmin Sheikh (613) 951-2518	220
SHIPMENTS OF PLASTIC FILM AND BAGS MANUFACTURED FROM RESIN	Mr. Raj Sehdev (613) 951-3513	221
THERMAL GENERATING STATION FUEL CONSUMPTION	Mr. Dave Madsen (613) 951-3565	221
WHOLESALE TRADE SURVEY (MONTHLY)	Mr. Gilles Berniquez (613) 951-3540	222

	Aircraft Movement Statistics		Annual Census of Forestry
	Datafile Name(a) Not applicable	1	Detelia Nemera) Not ensirable
	Summary Description of Contents This survey collects statistics on aircraft	28	Summary Deactiption of Contents Contains a wide variety of information on the
	movements from all airports with air traffic control towers and from selected smaller airports without air traffic control towers.		operation of the forestry industry.
	Purpose of the Database Database supports research, planning and policy requirements of government and industry.	2b.	Purpose of the Database The Census of Forestry is a survey of the logging and forestry services of Canada. Data serves research, planning and policy requirements of both business and government.
	Name and Address of Responsible Organization Aviation Statistics Centre, Transportation Division, Statistics Canada, 14th Floor, Les Terrasses de la Chaudiere, 15 Eddy Street, Hull, Québec, K1A 0T6.	3a	Name and Address of Responsible Organization Survey of Manufactures Section (Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Buildin Tunney's Pasture, Ottawa, Ontario, K1A 0T6
	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Peter Bailie (819) 997-6185 FAX: (819) 953-8499	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Jacques Lepage (613) 951-3516 FAX: (613) 951-3522
	Access Mechanisms Through the responsible organization	3c.	Access Mechanisms Through the responsible organization.
	Variables Included (summarized If extensive) - aircraft landings and take-offs (all locals, single-engine, multi-engine, jet, Military) - arrivals and departures	4a.	Variables Included (summarized if extensive) - nature of business - inventories - Durbhand final and electricity
	Geographic Coverage Canada		logging inputs and outputs non-manufacturing outputs
1	Data Acquisition Method(s) Administrative survey, 100% extraction from administrative ilies. Collection period: daily.		- revenue - exports
1	Geographic Unit(s) of Measurement Airports.	4b	Guographic Coverage Canada
1	Period of Record Since 1960 Update Frequency Monthly.	4c	Data Acquisition Method(s) Combined survey direct (2,700 establishment sample) ar ad ministrative (1,300 establishment sample) 68% Self-completion, mail out/mail bac 32% extraction from administrative files. Collection period from March to February
1	Database Hardware/Software Configuration Not applicable.	4d	Geographic Unit(s) of Measurement Provinces, Other, British Columbia interior an
1	Dutput Format(s) (tables, maps, etc.) Standard tabulation or data file in hard copy/printout, diskette, or tape. Customised tabulation or data file including following	40	Period of Record Since 1917
1	variables "Aircraft movements (i.e. take-offs, landings or simulated approaches) classified by class of operation, geographic area, type of operation, type of power plant, weight round fifth turks used transition and the section and power plant.	4f.	Upciate Frequency Annually
	Restrictions and Conditions. Relass time 2 months after the reference month	4g	Database Hardware/Software Configuration Not applicable.
(Confidentiality of individual responses.	4h.	Output Format(s) (tables, maps, etc.) Reports
1	Price Information Charge	5.	Restrictions and Conditions Release time occurs 28 months after the reference fisca year. Confidentiality of individual responses.
•	Corresponding Printed Sources Statistics Canada Publication 51-004.	6	Price Information Charge.
-	Less Aide Available Not explicable	7.	Corresponding Printed Sources Statistics Canada Publications 25-201; 25-202
-	Cevwords Aircraft Aviation Transportation	8.	Languages Reports available in French and English.
,	Additional Information Also referenced in Statistical Data Documentation System (SDDS)	9.	User Aids Available Not applicable.
10	is Survey # 2715.	10.	Keywurds Forestry, Forests; Logging
		11.	Additional Information 1 Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2107 2 1979 to 1983 - continual revisions

Statistics Canada

	Annual Survey of Manufactures (Part 1: Non-durable Goods /Part 2: Durable Goods)	Canadian Mortality Data Base
1	Datafile Name(s) Not applicable	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Contains a variety of information on the operations of the manufacturing sector.	2a. Summary Description of Contents Automated medical follow-up facilities are available to match starting point file (the files you supply) to the Canadian Mortality Data base (CMDB), at Statistics Canada, to determine whether persons in the group
26.	Purpose of the Database The Survey of Manufactures is a survey of the manufacturing industries of Canada.	have died and the cause of death.
3a.	Name and Address of Responsible Organization Part 1 - Survey of Manufactures Section (Non-durable Goods), Part 2 - Survey of Manufactures Section (Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture,	a Name and Address of Responsible Organization Occupational and Environmental
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	Hearn Research Section, Canadian Centre for Hearn Information, Statistics Canada, Ten Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
BC.	Mr. Carl Hebert (613) 951-3524 FAX: (613) 951-3522 Access Mechanisms Through the responsible organization	3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Martha Fair (613) 951-1734 FAX: (613) 951-0792
la	Variables included (summarized if extensive)	3c. Access Mechanisms Through the responsible organization.
	 principal operating statistics, including shipments, materials purchased, inventories, labour data non-manufacturing activity, commodity information 	4a Variables included (summarized if extensive) - personal identification including parental and spousal information - death details
4b.	Geographic Coverage Canada.	death, accident, other (miscellaneous death) other geographic variables residence occurrence
lc.	Data Acquisition Method(s) Combined survey direct (35,000 establishment sample) and administrative (30,000 establishment sample). 60% self-completion, mail out/mail back;	4b. Geographic Coverage Canada.
	40% non-standard, mail out CATT. Conection period from Apin to Periodary.	4c. Data Acquisition Method(s) Provincial vital statistics.
d.	Geographic Unit(a) of Measurement Canada; Provinces; Territones; Subprovincial regions; Census divisions; Census subdivisions; Census metropolitan areas; Census agglomerations; Other. Manufacturing statistical areas	4d Geographic Unit(s) of Measurement Canada.
1e.	Period of Record Since 1917.	4e Period of Record 1950 through present.
H		4f Update Frequency Annual
	Patabase Hardware/Coffware Configuration Not amplicable	4g. Database Hardware/Software Configuration Not applicable.
4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file. Principal	4h. Output Format(s) (tables, maps, etc.) Standard tabulation or statistical data file - a) Hard copy/printout, b) Diskette, c) Tape.
5.	cher products; charts, maps. Restrictions and Conditions Release time occurs 24 to 30 months after the reference	 Restrictions and Conditions The Statistics Canada Act and the Privacy Act of Canada protect the confidentiality of all records. All studies involving long term medical follow-up at Statistics Canada must satisfy a prescribed review and approval process.
	year (depending on the industry). Confidentiality of individual responses.	6 Price Information On a cost-recovery basis.
ð.	Price Information Charge.	7. Corresponding Printed Sources Non-catalogued publications include: Smith, M.E. and
7.	Corresponding Printed Sources Statistics Canada Publications (Part 1): 31-203, 31-209; 31-211, 31-530, 32-250; 32-251, 33-250; 33-251; 34-250, 34-251; 34-252, 36-251, 45-250; 46-250, 47-250, (Part 2), 31-203, 31-209, 31-211; 31-530; 35-250; 35-251; 36-250;	H.B. Newcombe (1982). "Use of the Canadian Mortality Database for Epidemiologica Follow-up", in <i>Canadian Journal of Public Health</i> , Vol. 73: 39-45.
	41-250, 41-251, 42-250, 42-251, 43-250, 44-250.	8. Languages Reports are available in French and English.
3.	Languages Reports available in French and English.	 User Alds Available A data collection package provides directions on producing you starting point file.
9.	User Aids Available Statistics Canada Publication 31-258.	10. Keywords Diseases; Health; Mortality.
10.	Reywords (Jurable goods, Industry, Manulacuning, Non-obrable goods.	11. Additional information
11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey ID Number 2103. As of the 1987 survey year this survey was redesigned as part of the Business Survey Redesign.; 1988 - The Industrial Commodity Classification was replaced by the Standard Classification of Goods (Harmonized System). Documentation of the Annual Survey of Manufactures has been solid due to size: Part	 Long term computenzed medical follow-up has demonstrated its value in studies of mortality and cancer incidence; similar uses are possible for assessing the risks of birth detects. An application package is available from the responsible organisation (3a) to apply to undertake a long term health follow-up study.
	1 for Non-durable and Part 2 for Durable Goods Industries.	

	Capital and Repair Expenditures, Actual		Census of Agriculture
	Datafile Name(s) Not applicable.	1	Datafile Name(s) Not applicable
a.	Summary Description of Contents. This survey provides a measurement of annual gross fixed capital formation in industry in each province and territory for construction and for machinery acquisitions, with further detail on public/private categories and by types of asset for construction and for machinery and equipment. The repair data	2a 2b.	Summary Description of Contents The survey collects data from operators of farms, ranches or other agricultural holdings. Purpose of the Database The Census of Agriculture is the major source of operative data is Constant agriculture a wede range of social and economic
	provide added information to complete the measurement for total activity as a total potential market in construction and in the acquisition of machinery.		research, planning and policy formation requirements.
њ.	Purpose of the Database The database serves a variety of research, planning and policy information requirements.	3a.	Name and Address of Responsible Organization Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
a.	Name and Address of Responsible Organization Capital Expenditures Section, Investment and Capital Stock Division, Statistics Canada, 9th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Linda Kemp (613) 951-8711 FAX (613) 951-3868
	Question Descende) Address (if different from 2a) Telephone and EAY Number(a)	3c	Access Mechanisms Through the responsible organization.
0.	Ms. Susan Horsley (613) 951-2589 FAX. (613) 951-0196	4a	Variables Included (summarized if extensive)
IC.	Access Mechanisms Through the responsible organization.		dairy products and eggs field crops
la.	Variables included (summarized if extensive)		truits and vegetables
	- capital and repair expenditures for construction, machinery and equipment		mushrooms
	- disposais and sales of fixed assets		- greenhouse nursery products and sod
	reasons for disposals and sales of fixed assets		- tur bearing animals
	- changes in capital expenditure plans		- maple products
	- capacity utilization rates for the manufactoring about		- value of products sold
	pollution abatement and control expenditures		- business expenses
Nb.	Geographic Coverage Canada.	4b	Geographic Coverage Canada
lc.	Data Acquisition Method(s) Direct survey of 26,000 establishments of all industries in the Standard Industrial Classification Manual (excluding international governments and private households). Data collection method via 100% self-completion, mail out/mail back Collection period from March 15 to October 31.	40	Dista Acquisition Method(s) Direct survey of all census farms. Collection using 94% self-completion, drop off/pick up, 5% self-completion, drop off/mail back, 1% face to face interview. Collection period from mid-May to the end of June.
łd	Geographic Unit(s) of Measurement Canada; Provinces; Territories; Census	4d.	Geographic Unit(s) of Measurement Canada; Provinces; Territories; Subprovincial regions; Census divisions; Census consolidated subdivisions; User-specified units.
	meropolitan areas - selected for manufacturing sector only).	40.	Period of Record Since 1871.
10.		41	Up tate Frequency Quinquennial
61.	update Frequency Annual	4g.	Database Hardware/Software Configuration Not applicable
lg.	Database Hardware/Software Configuration Not applicable	4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file. For a detailed list
4h	Output Format(a) (tables, maps, etc.) Reports, CANSIM Restrictions and Conditions Release time occurs 14 menths after the reference fiscal		of products offered please refer to <i>Lensus of Agriculture</i> - User's Extended (attactive of 96-101). Method(s) of dissemination: a) Hard copy/printout, b) Diskette, c) Tape, d) Other, microfriche, Customised tabulation or data file; Customised simulations, forecasts, etc.
	year Confidentiality of individual responses.		Customised analytical studies, Other customised products
6.	Price Information Charge	5.	Restrictions and Conditions Confidentiality of individual responses,
7.	Corresponding Printed Sources Statistics Canada Publications 61-205; 61-206; 61-214; 61-216; 64-201; 34-015.	6.	Price Information Charge
8	Languages Publications available in French and English.	7.	Comresponding Printed Sources Statistics Canada Publications, 96-101, 96-102, 96-103; 96-104; 96-105; 96-106; 96-107; 96-108; 96-109; 96-110; 96-111; 96-112; 96-113, 96-114
9.	User Aids Available "Notes and Definitions for Gross Fixed Capital Formation".	8.	Languages Reports are bilingual; database printout may be in English, French or
10.	Keywords Capital expenditures; Industry; Machinery.		biling al.
11.	Additional Information	9.	User Aids Avaitable Not applicable.
	2 Data Revision: The "actual" survey data are not revised, therefore, it excludes	10.	Keywords Agriculture; Crops; Fertilizers; Irrigation, Land use; Pesticides.
	adjustments and historical revisions made in the national accounting System.	1	Additional Information
	3. A past major revision occurred in 1986 with the introduction of the new Capital	11	Addresses information
	Expenditure Data requirements and new questionnaire (1985 data). 4. The Capital Expenditure Surveys are tentatively scheduled for a major re-design and		 An oreienenced in Statistical Data Documentation System (SDDG) as Survey a Skool The most recent Census was conducted in June 1991.
	integration with the Central Frame Database in the next several years.		
	Control Expenditures by Industry in early 1991. The results are now available.		

	Census of Population		
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s)
2a.	Summary Description of Contents Basic information concerning age, sex, marital status, mother tongue is obtained for all persons in Canada. In addition, data were collected for each dwelling, concerning both the persons living there (e.g., the	2a.	Summary Description
	number of residents) and the dwelling itself (e.g., type of dwelling). Certain other information was collected from a sample (one-fifth) of the population including data	26.	Purpose of the D
	on citizenship, mobility status; on social and cultural characteristics such as ethnicity, education, and language spoken in the home; disabilities and on economic	За.	Name and Addre Section, Agnoultur
	characteristics such as labour force activity, occupation, industry, place of work and income. Sample data on additional dwelling characteristics, such as period of		Pasture, Ottawa,
	construction, number of rooms, type of heating equipment, as well as shelter costs, are also available.	36.	Contact Person(a Mr. Peter Meszare
26.	Purpose of the Database The Census collects information on the social and economic characteristics of Canadians and the dwellings in which they live	3c.	Access Mechania
		4a.	Variables Include
3a.	Name and Address of Responsible Organization Data Capture Applications and Development Section, Census Operations Division, Statistics Canada, 2nd Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6		 number of will value of prod
01		4b.	Geographic Cov
30.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Bosalie Bambrick (613) 951,3968		Data Association
	FAX: (613) 951-0686	40.	August 15 to Janu
3c.	Access Mechanisms Through the responsible organization.	Ad	Geographic Unit

Variables Included (summarized if extensive) 4a

- demographic characteristics
- ethno-cultural and language schooling
- labour force
- income
- family and household
- housing and disability
- 4b. Geographic Coverage Canada
- Data Acquisition Method(s) Direct survey. 68% self-completion, drop off/mail back, 30% 4c self-completion, drop off/pick up; 2% face to face personal interview. Collection period from May 26 to July 15 (for years ending in 1 or 6).
- 4d. Geographic Unit(s) of Measurement Canada; Provinces; Territories; Subprovincial regions; Census divisions; Census subdivisions; Census metropolitan areas; Census agglomerations
- Period of Record Records exist back to 1666. 40.
- 41 Update Frequency Quinquennial
- 4g. Database Hardware/Software Configuration Not applicable.
- Output Format(s) (tables, maps, etc.) Standard available on demand Tape. For a 4h detailed list of products and services offered please refer to Products and Services (catalogue no. 99-103) Method(s) of dissemination: a) Hard copy/printout, b) Diskette, c) Tape, d) Other, Microfiche. Customised tabulation or data file also available. Reports.
- 5 Restrictions and Conditions Confidentiality of individual responses
- 6 Price Information Charge.
- Corresponding Printed Sources Statistics Canada Publications: 92-101 to 92-105; 92-109 to 92-123; 93-101 to 93-119; 93-151 to 93-157; 94-101 to 94-134; 95-101 to 95-174; 98-101 to 98-112; 98-120 to 98-135; 99-101(E&F) to 99-106(E&F); 99-115 to 99-127. Non-catalogued publications: Postal code (FSA) profiles; Aboriginal Peoples Dutput Program products.
- 8 Languages Reports are available in French and English.
- 9 User Aids Available Not applicable
- 10 Keywords Demography: Population
- 11 Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3901.

Census of Wildlife Pelt Production

- Not applicable
- iption of Contents This survey collects data on wildlife pelts ada including information on the number and value of pelts taken.
- atabase The database serves research and policy requirements.
- ess of Responsible Organization Livestock and Animals Products e Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Ontario, K1A 0T6.
- s), Address (if different from 3a), Telephone and FAX Number(s) os (613) 951-2505 FAX: (613) 951-3868
- erns Through the responsible organization
- ed (summarized if extensive) Idlife pelts, by type uction, by kind
- erage Canada
- Method(s) Derived survey of all licensed trappers. Collected from Jary 15
- Geographic Unit(s) of Measurement Canada; Provinces; Territories
- 4e Period of Record Since 1919.
- 41. Update Frequency Annually.
- Database Hardware/Software Configuration Not applicable. 4a.
- 4h. Output Format(s) (tables, maps, etc.) Reports, CANSIM.
- 5. Restrictions and Conditions Confidentiality of individual responses.
- 6 Price Information Charge
- Corresponding Printed Sources Statistics Canada Publication 23-207. 7
- B Longuages Report is bilingual; database is in English.
- User Aids Available Not applicable. 9.
- Keywords Petts, Trapping, Wildlife. 10

11 **Additional Information**

- Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3428.
- 2 Report is released 9 months after the reference fur year (ending June 30).

	Coal Mines		Corrugated Boxes and Wrappers
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents This is an annual survey collecting data related to the production activities of Canadian coal mines.	2a.	Summary Description of Contents This survey collects monthly information on shipments from 13 manufacturers of corrugated boxes and wrappers given in quantity and value and by province of destination. Exports are also shown.
2 b .	Purpose of the Database Mining information to support research, planning and policy development	2b.	Purpose of the Database Provides information on one aspect of packaging
3a.	Name and Address of Responsible Organization Electricity and Coal Unit, Industry		production.
	, Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.	3a.	Name and Address of Hesponsible Organization industry Division, Statistics Carlada 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dave Madsen (613) 951-3565 FAX. (613) 951-3522	36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Sandra Bohatyretz. (613) 951-3531 FAX (613) 951-3522
3c.	Access Mechanisms Through the responsible organization	Зс	Access Mechanisms Through the responsible organization.
4a.	Variables Included (summarized if extensive)	4a.	Variables Included (summarized if extensive)
	- quantity and value of fuer and electricity		augentity
	· value of materials and supplies		destination
	- quantity and value of sales		· using
	- inventory		- Value
	consumption of purchased fuel and electricity		
	- selected mining and non-mining inputs	4b.	Geographic Coverage Canada
	- operating revenue		
	- production summary	4c.	Data Acquisition Method(s) Direct survey. 100% self-completion, mail out/mail back
	technical details		Collection period from 1st of month to 10th of month
	- tourshead being		
	· payroll, employment and hours.		Community United of Management Establishments Provinces
		40.	Geographic Unit(s) of Measurement Establishments, Provinces.
4b	Geographic Coverage Canada.		
		40.	Period of Record Since 1961
4c.	Data Acquisition Method(s) Direct survey of 30 coal mines with gross sales of		
	\$1,000,000 over the year. 100% self-completion, mail out/mail back. Collection period from January 1 to July 1.	41	Update Frequency Monthly.
		4g.	Database Hardware/Software Configuration Not applicable
ad	Geographic Unit(s) of Measurement Nova Scotia: New Brunswick; Saskatchewan;	-	
τυ.	Abarta: British Columbia	4h	Output Format(s) (tables, maps, etc.) Recorts
	Alberta, British Columbia.	-	anther Laurenda / ferrand and be the second and be second
40.	Period of Record Since 1972.	5.	Restrictions and Conditions Release time 18 working days after the reference monit Con identiality of individual responses
41	Update Frequency Annually		
		6	Price Information Charge
4.0	Detahase Machunes/Coffman Configuration Not applicable	1	
49	Database Hardware/Sontware Configuration Not approacte.	7	Company Printed Sources Statistics Canada Publication 36-004.
Ab	Output Exempt(a) (tables, mans, atc.) Reports		
ф¥1.	output Formadia) (causes, maps, etc.) (tepote.		Lenguages, Reports are available in Ereach and English
-	De stat stand Constitues - Delesse time it was after the reference releader was	0.	Languages reports are available at renor and English.
5.	Confidentiality of individual responses.	9.	User Aids Available Not applicable
6.	Price Information Charge.	10.	Keywords Cardboard; Corrugated boxes; Packaging; Paper.
			A different Information
7.	Corresponding Printed Sources Statistics Canada Publication 26-206	11.	Additional Information
8.	Languages. Reports are available in French and English.		 Also referenced in Statistical Data Documentation System (SDDS) as Survey #214- The survey is reviewed annually to ensure that the terminology and units of measure
0	ileer Aide Aveilable Not applicable		ani still relevant
9.	Veet Anse A Velkauee I'uu approauto.		
10	Keywords Coal, Energy; Hydrocarbons; Mining; Non-renewable resources.		
11	Additional Information		
	1 Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2177.		
	2 No major registons since incention of survey		
	a. The transfer function of a start of a strategy.		

Statistics Canada

 Crude Petroleum and Natural Gas Production Datafile Name(s) Not applicable Summary Description of Contents The monthly Crude Petroleum and Natural Gas Production Survey covers the production and final destination of crude oil, natural gas and natural gas liquids. Purpose of the Database Database supports research, planning and policy requirements of government and industry. Name and Address of Responsible Organization Oil and Gas Unit, Energy Section Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pastur Ottawa, Ontario, K1A OT6. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(a) Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522 Access Mechanisms Through the responsible organization. Variables Included (summarized if extensive) gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphur inventories in the field inventories in the field inventories in the field amounts sent to various provinces for final disposition amounts for export Geographic Ceverage Producing Provinces, Territories and Canada.
 Datafile Name(s) Not applicable Summary Description of Contents The monthly Crude Petroleum and Natural Gas Production Survey covers the production and final destination of crude oil, natural gas and natural gas liquids. Purpose of the Database Database supports research, planning and policy requirements of government and industry. Name and Address of Responsible Organization Oil and Gas Unit, Energy Section Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pastur Ottawa, Ontario, K1A 0T6. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522 Access Mechanisms Through the responsible organization. Variables Included (summarized if extensive) gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphus inventories held by transporters (distributors in the case of natural gas) amounts sent to various provinces for final disposition amounts for export
 2a. Summary Description of Contents The monthly Crude Petroleum and Natural Gas Production Survey covers the production and final destination of crude oil, natural gas and natural gas liquids. 2b. Purpose of the Database Database supports research, planning and policy requirements of government and industry. 3a. Name and Address of Responsible Organization Dil and Gas Unit, Energy Section Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pastur Ottawa, Ontario, K1A 0T6. 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522 3c. Access Mechanisms Through the responsible organization. 4a. Variables Included (summarized if extensive) gross production of crude oil and natural gas by province gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphu inventories in the field inventories in the field inventories held by transporters (distributors in the case of natural gas) amounts for export 4b. Geographic Ceverage Producing Provinces, Territories and Canada.
 2b. Purpose of the Database Database supports research, planning and policy requirements of government and industry. 3a. Name and Address of Responsible Organization Oil and Gas Unit, Energy Section Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pastur Ottawa, Ontario, K1A 0T6. 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522 3c. Access Mechanisms Through the responsible organization. 4a. Variables Included (summarized if extensive) gross production of crude oil and natural gas by province gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphus inventories in the field inventories in the field amounts sent to various provinces for final disposition amounts for export 4b. Geographic Ceverage Producing Provinces, Territories and Canada.
 3a. Name and Address of Responsible Organization Oil and Gas Unit, Energy Section Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pastur Ottawa, Ontario, K1A 0T6. 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522 3c. Access Mechanisms Through the responsible organization. 4a. Variables Included (summarized if extensive) gross production of crude oil and natural gas by province gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphue inventories in the field inventories held by transporters (distributors in the case of natural gas) amounts for export 4b. Geographic Ceverage Producing Provinces, Territories and Canada.
 3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Smallridge (613) 951-3567 FAX: (613) 951-3522 3c. Access Mechanisms Through the responsible organization. 4a. Variables Included (summarized if extensive) gross production of crude oil and natural gas by province gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphui inventories in the field inventories in the field inventories held by transporters (distributors in the case of natural gas) amounts for export 4b. Geographic Ceverage Producing Provinces, Territories and Canada.
3c. Access Mechanisms Through the responsible organization. 4a. Variables Included (summarized if extensive) - gross production of crude oil and natural gas by province - gross production for plant and field use, reinjection and that which is burned off - natural gas shrinkage - volumes of products produced - condensate, propane, butane, ethane and sulphul - inventories in the field - inventories held by transporters (distributors in the case of natural gas) - amounts sent to various provinces for final disposition - amounts for export
 4a. Variables Included (summarized if extensive) gross production of crude oil and natural gas by province gross production for plant and field use, reinjection and that which is burned off natural gas shrinkage volumes of products produced - condensate, propane, butane, ethane and sulphus inventories in the field inventories held by transporters (distributors in the case of natural gas) amounts sent to various provinces for final disposition amounts for export 4b. Geographic Ceverage Producing Provinces, Territories and Canada.
volumes of products produced - condensate, propane, butane, ethane and sulphu inventories in the field inventories held by transporters (distributors in the case of natural gas) amounts sent to various provinces for final disposition amounts for export db. Geographic Ceverage Producing Provinces, Territories and Canada.
amounts sent to various provinces for final disposition amounts for export 4b. Geographic Ceverage Producing Provinces, Territories and Canada,
4c. Data Acquisition Method(s) Derived survey. Collection period 50 to 55 working day after the end of the month in question
4d. Geographic Unit(s) of Measurement Company location; Provinces; Territories; Canad
4e. Period of Record Since 1908.
47. Update Frequency Monthly 49 Database Hardware/Software Configuration Not applicable.
4h. Output Format(s) (tables, maps, etc.) Reports, CANSIM.
5 Restrictions and Conditions Release time 65 working days after the reference month Confidentiality of individual responses.
6. Price information Charge.
7. Corresponding Printed Sources Statistics Canada Publication 26-006.
8 Languages Reports are available in French and English
9 User Aids Available Not applicable. 10 Keywords Extraction: Hydrocarbons: Natural das: Non-renewable resources: Oil
 Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2198 Survey revised as received from sources (surveyed companies or administrative files up to 24 months prior to current reference period.

_			Equiremental Information System
	Electricity Supply/Disposition Quarterly		(GIS Component)
1	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents This is a quarterly survey collecting data about the supply and disposition of electricity in Canada from approximately 215 utilities and industrial establishments which generate and/or distribute electric energy.	2a.	Summery Description of Contents: A wide vanety of geographically referenced information is held in the system. Many of these data are from Statistics Canada sources and can be reworked to bring out dimensions that make the data more useful for environmental analysis. These include detailed data from the Census of
26.	Purpose of the Database Database supports research, planning and policy development.	24	Population, Census of Agriculture and Industry Surveys
3a.	Name and Address of Responsible Organization Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.	20.	and assessment of the national state of the environment and regional environmental concerns.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522	3a.	Name and Address of Responsible Organization National Accounts and Environment Division, Statistics Canada, 21st Floor R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
3c.	Access Mechanisms Through the responsible organization	36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) vr Phil Fong (613) 951-5638 Mr. Bruce Mitchell (613) 951-3742
4a .	Variables included (summarized if extensive) - energy generated		FAX: (613) 951-3618
	- gross receipts of energy from the U.S.A.	3c.	Access Mechanisms Through the responsible organization
	- gross deliveries of energy to other provinces, to other systems within province	4a.	Variables Included (summarized if extensive)
	transmission, distribution and other losses		- crop type trends
	- value of electric energy used in residential, agriculture, mining, pulp and paper, iron		- use of pesticides, fertilizers, irrigation
	and steel, smelting and refining, cement, petroleum refineries, chemicals, other		cultivation practices socio-economic acticulture data
	and defence, street lighting and commercial/institutional.		 population, by a wide number of characteristics
			- dwellings, by type
4 b.	Geographic Coverage Canada.		- labour force
4c.	Data Acquisition Method(s) Direct survey of 215 utilities and industrial establishments. 100% self-completion, mail out/mail back. Collection period 90 days.		industrial activity
4d.	Geographic Unit(s) of Measurement Establishments, Canada, Provinces; Territories.	4b.	Geographic Coverage Canada, and potentially some international coverage, especially U.S.A. data for adjacent river basins
40.	Period of Record Since 1981.	4c.	Data Acquisition Method(s) Derived from surveys
4f	Update Frequency Quarterly	4d.	Geographic Unit(s) of Measurement Canada; Provinces; Territories; Subprovincial
4g.	Database Hardware/Software Configuration Not applicable		regions, Census divisions, Census subdivisions, Census metropolitan areas, Census aggiomerations; Other, Drainage basins, Ecological units, Climate zones, Pollution impact areas, Many other environmentally significant units.
4h.	Output Format(s) (tables, maps, etc.) Reports	40	Period of Record Many series are available back to 1971.
5.	Restrictions and Conditions Release time 6 months after the reference quarter Confidentiality of individual responses.	4f.	Updite Frequency Constantly updated
	Deles Information Charge	40	Reteineen Herdware/Software Configuration Both PC and UNIX based ABC/INFO
7	Corresponding Drinted Sources Statistics Canada Publications 57-003: 57-202	*9	Geographic Information Systems
1.		4h.	Output Format(s) (tables, maps, etc.) Customised tabulations or data files; other
8.	Languages Heports are available in French and English.		custornised products including maps/graphics Publications
9.	User Alds Available Not applicable.	5.	Restrictions and Conditions Confidentiality of individual responses.
10	Keywords Electricity supply, Energy.	6.	Price nformation Charge.
11	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2194	7,	Corresponding Printed Sources Human Activity and the Environment, Statistics Canada Catalogue 11-509E (F). Estimating Agricultural Soil Erosion - Trant, D. Environmental Perspectives: Studies and Statistics, Statistics Canada (forthcoming).
		8	Languages Reports are bilingual; database is in english.
		9	User Aids Available Data dictionary available from responsible organization.
		10.	Keywords Agriculture; Ecozones; Environment statistics; Environmental Information System; GIS; Population; Industry; State of the Environment; Watersheds.
		11.	 Additional Information Alsc referenced in Statistical Data Documentation System (SDDS) as Survey # 1201 New environmental surveys are being conducted by Statistics Cariada on waste management, pollution abatement and control by industry and environmentally relevant actions of households. These data will be included in the Information System in the future.

Statistics Canada

		1	
	Estimates of Population by Marital Status, Age and Sex for Canada, the Provinces and the Territories		Field Crop Reporting Series
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents This survey provides estimates of population by marital status, single year of age, 5-year age groups and sex, for Canada, provinces and territories.	2a.	Summary Description of Contents This is a series of eight agriculture surveys used in the preparation of statistical reports released at pre-scheduled, strategic times during the crop year.
2b.	Purpose of the Database Database supports research, planning and policy requirements of government and industry	26.	Purpose of the Database Designed to provide accurate and timely forecasts and estimates of acreage, production and farm stocks of the major grains in Canada at the provincial level.
3a.	Name and Address of Responsible Organization Population Estimates Section, Demography Division, Statistics Canada, 6th Floor, Jean Talon Building, Turiney's Pasture, Ottawa, Ontario, K1A 0T6.	3a.	Name and Address of Responsible Organization Crop Reporting Unit, Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Lise Champagne (613) 951-2320 FAX: (613) 951-2307	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Oliver Code (613) 951-8719 FAX: (613) 951-3668
JC.	Access mechanisms Inrough the responsible organization.	30	Access Mechanisms Through the responsible organization
4a.	Variables Included (summarized if extensive)	1	
	 population by marital status, age and sex 	4a.	Variables Included (summarized if extensive)
	 deaths by marital status, age and sex 		 field crop areas
	immigrants by marital status, age and sex		 area and yield of crops on summerfallow and stubble
	• emigrams by mantal status, age and sex		- intentions to plant field crops
	Interprovincial in-out and net migrants by marital status, age and sex		- grain in storage on farms
	 annual number of newly married, divorced and widowed by age and sex for Canada. 		- probable yields
46	Constantio Country Country		- estimated yields
40.	Geographic Coverage Canada.		 crop areas and production
4.0	Date Association Mathematical Designations		- crop record
4¢.	Data Acquisition Method(s) Derived survey.	1	Commentie Comment
Ad	Geographic Unities of Measurement, Consider Provinces: Territories	40.	Geographic Coverage Canada.
	and group the entry of memorie terrorit symmetry, rovinces, remotios.	Ac	Data Acquisition Mathed(a) Direct survey of a sample size of 10,000. Collection method
40	Period of Record Since 1951.	-70.	via telephone interview, August 1 to July 31.
4f.	Update Frequency Annually.	4d.	Geographic Unit(s) of Measurement Farms; Provinces; Canada.
49	Database Hardware/Software Configuration Not applicable.	40.	Period of Record Since 1920.
4h.	Output Format(a) (tables, maps, etc.) Standard tabulation or data file - a) Hard copy/pnntout, b) Diskette, c) Tape. Reports, CANSIM.	4f.	Update Frequency Occasional.
5	Restrictions and Conditions Release time 140 days after the reference day	4g.	Database Hardware/Software Configuration Not applicable
	Confidentiality of individual responses.	4h.	Output Format(s) (tables, maps, etc.) Reports, CANSIM.
6	Price Information Charge.	5	Restrictions and Conditions Confidentiality of individual responses.
7.	Corresponding Printed Sources Statistics Canada Publication 91-528E	6	Price Information Charge.
8.	Languages Reports are available in French and English.	7.	Corresponding Printed Sources Statistics Canada Publication 22-002.
9	User Aids Available Not applicable.	8.	Languages Report is bilingual; database is in English.
10.	Keywords Population	9.	User Aids Available Not applicable
11	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3605.	10.	Keywords Agriculture; Crops.
		11.	Additional Information
			 Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3401. Release time varies throughout the year Information available 1 month after collection period.
	For-Hire (Commodity Origin-Destination) Trucking Survey		General Social Survey - Cycle 1 (GSS-85)
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1	Datafile Name(s) Not applicable	1,	Datafile Name(s) Not applicable
2a.	Summary Description of Contents The objectives of the survey are to provide reliable estimates concerning the origin and destination of intercity commodity	2a	Summary Description of Contents Data on disability, health and lifestyle.
	movements by for-hire motor carriers (intercity means movements of 15 miles/24.1 kilometres or more)	26.	Purpose of the Database This survey monitors changes in the health of Canadians and examines social support related to persons 55 years and older
2b.	Purpose of the Database Database supports research, planning and policy requirements of government and industry.	За.	Name and Address of Responsible Organization General Social Survey Project, Housing, Family and Social Statistics Division, Statistics Canada, 7D7, Jean Talon Building Tunney's Pasture, Ottawa, Ontario, K1A 016
3a.	Name and Address of Responsible Organization Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ed Praught (613) 951-9180
3b	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Ms. Kathie Daudson, (613) 951-9779 FAX: (613) 951-0579	3c.	Access Mechanisms Through the responsible organization.
		4a.	Variables Included (summarized if extensiva)
30.	Access Mechanisms Through the responsible organization.		short and long term disability Ifestyle
4a.	Variables Included (summarized if extensive)		health problems
	revenues		use of health care services
	- shipments		- support network
	- weight volume		- support given and received
	· commodities		
	- tonne-kilometres	4b.	Geographic Coverage Provinces
	origin and destination of movement		Read and the second reading the second statements. 2004 Astandards interviews
4b.	Geographic Coverage Canada.	40.	23% face to face personal interview. Collection period September and October 1985.
4c.	Data Acquisition Method(a) Direct survey of 1,300 sampled firms 65% observation/inspection, 30% self-completion in machine readable form, 5% face to face	4d.	Geographic Unit(s) of Measurement Canada; Provinces.
	personal interview	40	Puriod of Record 1985.
4d.	Geographic Unit(s) of Measurement Firms; Canada; Provinces, Territories; Subprovincial regions; Census metropolitan areas; Other US Census divisions and regions.	41	Update Frequency Quinquennial.
40.	Period of Record Since 1970	4g.	Database Hardware/Software Configuration Not applicable.
		4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file available on
4f.	Update Frequency Quarterly		dernand - a) Hard copy/printout, b) Diskette, c) Tape, d) Other, cartridge. Customised tabulation or data file and customised analytical studies. Number of variables 622.
49.	Database Hardware/Software Configuration Not applicable		Heptorits.
4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file including following copy/printout, diskette, or tape. Customised tabulation or data file including following constructions of the second se	5.	Restrictions and Conditions Release time 9 months after the reference period. Confidentiality of individual responses.
	Estimated revenue, Tons and ton miles, Tonnes and tonne-kilometres for any commodity cannot be the three directions and ton miles.	6.	Price Information Charge.
5	Carried at the time-digk standard commonly classification even reports.	7.	Con esponding Printed Sources Statistics Canada Publications 11-612; 89-508.
0.	Confidentiality of individual responses.	8.	Languages Reports are available in French and English.
6.	Price Information Charge.	9.	User Aids Available Statistics Canada Publication 11-612 (no. 1); GSS Features and Status Report
7,	Corresponding Printed Sources Statistics Canada Publication 53-222.	10	Kevw ords Disability: Health: Lifestyle: Social Survey.
8.	Languagee Reports are available in French and English.		
9.	User Aids Available "Survey Methodology 1983" (vol. 9, no. 1).	11.	Additional importantion Also referenced in Statistical Data Documentation System (SDDS) as Survey #3836. Excusery CSS s as applied survey with execute subject areas (a g health) recurring
10.	Keywords Motor vehicles, Transportation, Trucking.		quinquennially
11.	Additional Information		
	1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2741.		
	2. 1981 and 1986 - Change in methodology, computer system, but concepts and		
	objectives remain the same		
	 Until 1988, this survey was conducted annually and collected data pertaining to the calendar year. 		

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Statistics Canada

	General Social Survey - Cycle 4 (GSS-89)		Hospital Morbidity
1.	Datafile Name(s) Not applicable.	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents This survey monitors patterns and trends in work and education.	2a.	Summary Description of Contents Contains a variety of information on diseases and surgical procedures of persons in hospitals.
2b. 3a.	Purpose of the Database Database supports research, planning and policy requirements of government and industry. Name and Address of Responsible Organization General Social Survey Project.	2b.	Purpose of the Database The basic source of inpatient hospital morbidity information is the admission/separation form completed by general and allied hospitals. All provinces co-operate in forwarding computer tapes to Statistics Canada containing medico-demographic information of the patient such as ace
3h	Housing, Family and Social Statistics Division, Statistics Canada, 7th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.	1	sex, diagnosis, surgical operations, length of stay, etc. The information forwarded by the provinces is subjected to editing and standardizing processes before national morbidity statistics are produced and disseminated. The information published is the
	Ms. Ghislaine Villeneuve (613) 951-4995		only national source of the hospital expenence of the Canadian population in terms of diseases and surgical procedures.
3c. 4a.	Access Mechanisms Through the responsible organization Variables Included (summarized if extensive)	За.	Name and Address of Responsible Organization Information Production Unit, Canadian Centre for Health Information, Statistics Canada, 18th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Dintario, K1A 016.
	education science and technology organizations satisfaction	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Rose-Marie Laflamme (613) 951-1639 FAX: (613) 951-0792
46	Geographic Coverage Provinces	49	Variables included (automatized if extension)
4c.	Data Acquisition Method(s) Direct survey of 9,300 sampled individuals. 100% telephone interview. Collection period January and February 1989.	70	hospital separations surgical procedures age
4d.	Geographic Unit(s) of Measurement Canada; Previnces.		- sex - diagnosis
4e.	Period of Record 1989		- length of stay - patients region of residence
4f.	Update Frequency Quinquennial	also"	 province number of cases
4g.	Database Hardware/Software Configuration Not applicable.	4b.	Geographic Coverage Provinces.
4h.	Output Format(s) (tables, maps, etc.) Reports, special tabulations.	4c.	Data Acquisition Method(s) Administrative survey. 100% extraction frem administrative files. Collection period from April 1 to March 31.
5.	Restrictions and Conditions Release time 9 months after the reference period. Confidentiality of individual responses	4d.	Geographic Unit(s) of Measurement Provinces.
6.	Price Information Charge.	40.	Period of Record Since 1960
7.	Corresponding Printed Sources Statistics Canada Publication 11-612.	41.	Update Frequency Annually.
8.	Languages Reports are available in French and English.	4g.	Database Hardware/Software Configuration Not applicable.
9.	User Aids Available Statistics Canada Publication 11-612 (no. 1); GSS Features and Status Report	4h:	Output Format(s) (tables, maps, etc.) Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape. Non-catalogued publications, CANSIM.
10.	Keywords Education; Workplace.	5	Restrictions and Conditions Release time 1 1/2 years after the reference fiscal year. Confidentiality of individual responses.
11	Additional Information 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3892.	6.	Price Information Charge.
	Frequency: GSS is an annual survey with specific subject areas (e.g. health) recurring quinquennially.	7.	Corresponding Printed Sources Non-catalogued publications include: Hospital Morbidity, Surgical Procedures; E-Codes (Hospitalizations as a result of accidents)
		8	Languages Reports are available in French and English.
		9.	User Aids Available Not applicable.
		10.	Keywords Diseases; Health; Hospitals; Morbidity.
		11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3203.

	Household Escilities and Equipment Survey		
	(HFE)		Household Environment Survey
1.	Datafile Name(s) Not applicable	1.	Detafile Name(s) Not applicable
2a.	Summary Description of Contents This household survey provides annual estimates of household facilities and equipment based on a sample which represents all private households in Canada, By linking this data base with the survey of Consumer Finances, the HIFE data base is created to provide annual estimates of household incomes, facilities and equipment.	2a. 2b.	Summary Description of Contents Statistics on household use of selected environmentally significant products, household practices of perceived environmental significance. Purpose of the Database The database is intended to serve requests for special
-	Premare at the Determent Database provides a unristy of information on dame in		tabulations of survey results.
20.	These data are used in research, planning and policy development.	За.	Name and Address of Responsible Organization National Accounts and Environment Division, Statistics Canada, 21st Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
3a	Name and Address of Responsible Organization Income and Housing Surveys Section, Household Surveys Division, Statistics Canada, 5th Floor, Jean Talon Building, Ottawa, Ontario, K1A 0T6.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Bruce Mitchell. (613) 951-3742. FAX: (613) 951-3618 Mr. M. Meere, Household Surveys Division, Statistics Canada (613) 951-4637
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms Penny Barclay (613) 951-4634 FAX: (613) 951-0562	3c	Access Mechanisms Through the responsible organization
3c. 4a	 Access Mechanisms Through the responsible organization Variables Included (summarized if extensive) selected dwelling characteristics (type of dwelling, tenure, age of dwelling, etc.) facilities and equipment variables (heating equipment, fuel, hot water fuel, cooking fuel) number of refrigerators, telephones, colour televisions, radios, cars, microwave ovens, video recorders, cable televisions (some items such as recreation equipment and supplementary heating equipment are available only every 2-3 years) 	4a.	Variables included (summarized if extensive) use of disposable diapers, programmable thermostats, low flow shower heads, pesticides in the garden, recycled paper products disposal practices for household hazardous waste water filters bottled water use composting access to, use of, recycling travel to work
4b.	Geographic Coverage Provinces	4b.	Geographic Coverage Canada excluding the Territories
4c	Data Acquisition Method(s) Direct survey of 38,000 sampled households from the household population of 9,200,000. 95% telephone interview, 5% face to face personal interview. Collection period in May.	4c	Duta Acquisition Method(s) Telephone survey of 10,000 households in the pilot phase. The full survey covers a 40,000 household sample representing the Canadian population of households.
4d.	Geographic Unit(s) of Measurement Provinces, Subprovincial regions - selected; Census metropolitan areas - selected	4d.	Geographic Unit(s) of Measurement Canada; Provinces; Urban-Rural; Sub-provincial from special tabulations
40.	Period of Record Since 1947	40	Period of Record Pilot survey conducted in September 1990.
4 f.	Update Frequency Annually.	-4E.	Uptlate Frequency Full survey was conducted in May 1991.
4g.	Database Hardware/Software Configuration Not applicable	4g.	Database Hardware/Software Configuration Not applicable.
4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape: Customised tabulation or data file. Customised products include divisional master file. Number of variables 480 Main variables	4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file - a) Hard copy/printout, b) Diskette, c) Tape. Customised tabulation or data file.
	Demographic Labour force, Income, Household facilities and equipment, Housing characteristics Levels of dissemination (individual, CF, EF, and household). Two	5	Restrictions and Conditions Microdata is confidential.
	publications are produced	6.	Price Information Charge for special tabulations
5.	Restrictions and Conditions Release time October of the current year. Confidentiality of individual responses.	7.	Corresponding Printed Sources Background document containing pilot survey results released in February 1991. Statistics Canada Publication 11-526, Households and the Environment, contains the results of the May 1991 survey. Contact the Responsible
6.	Price Information Charge.		Organization (3a) for more information.
7.	Corresponding Printed Sources Statistics Canada Publications 13-218 and 64-202.	8.	Lenguages French and English.
8.	Languages Reports are available in French and English.	9.	User Alds Available Not applicable.
9.	User Aids Available Not applicable.	10.	Keywurds: Diapers; Energy use; Household equipment; Household facilities; Pesticides; Recycling: Water use
10.	Keywords Boats; Fuel; Furnaces; Heat pumps, Heating; Household equipment; Household facilities, Refrigerators; Snowmobiles.	11.	Additional Information None.
11.	 Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3505. Final estimates published in the fall of the survey year. Estimates revised following release of the current Census data, i.e. data for 1981-1987 have been revised based on updated counts from the 1986 Censes and a new weighting procedure. Some of the surveyet items can be added in response to demand from users. Mobile homes included in estimates as of 1984. Many of the questions have a strong environmental dimension. 		

Statistics Canada

	Industriai Consumers of Energy		Local Government Financial Management Statistics - Capital Expenditures
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a 2b.	Summary Description of Contents This is a quarterly survey collecting energy consumption and inventory data from large consumers of energy in Canada.	2a.	Summary Description of Contents The survey presents capital expenditures information on a forecast, revised forecast, preliminary and actual basis in accordance with the concepts and definitions of the Financial Management System of Government Statistics with asset-type defail
3a.	Name and Address of Responsible Organization Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.	2b.	Purpose of the Database Database supports research, planning and policy requirements of government and industry.
36.	Contact Person(s), Address (If different from 3e), Telephone and FAX Number(s) Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522	За.	Name and Address of Responsible Organization Public Finance Section, Public Institutions Division, Statistics Canada, 20th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
3c.	Access Mechanisms Through the responsible organization.	3b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Terry Moore (613) 951-8306 Mr. Robert Loggie (613) 951-1809 FAX (613) 951-0661
	 consumption of coal (by type), coal coke, petroleum coke, heavy fuel oil, natural gas (fuel and input), wood, spent pulping liquor, steam 	3c.	Access Mechanisms Through the responsible organization.
	inventory of fuel adjustments, losses, sales, etc. energy content	4a	Variables Included (summarized if extensive) local government capital expenditures.
4b.	Geographic Coverage Canada.	4b.	Geographic Coverage Canada.
4c.	Data Acquisition Method(s) Direct survey of 320 establishments that are large energy users. 100% self-completion, mail out/mail back. Collection period 20 days.	40.	population of 3,831, 100% self-completion, mail out/mail back. Collection period from April to June; from November to January.
4d.	Geographic Unit(s) of Measurement Canada; Provinces; Territories.	4d.	Geographic Unit(s) of Measurement Municipalities; Canada; Provinces; Territories.
4e	Period of Record Since 1977.	4e	Period of Record Since 1955.
4f.	Update Frequency Quarterly.	4f.	Update Frequency Semi-annual
49	Database Hardware/Software Configuration Not applicable.	49.	Database Hardware/Software Configuration Not applicable
4h.	Output Format(s) (tables, maps, etc.) Reports	4h.	Output Format(s) (tables, maps, etc.) Standard tabulation or data file - a) Hard copy/printout, b) Diskette. Reports, CANSIM.
5.	Restrictions and Conditions Release time 4 months after the reference quarter. Confidentiality of individual responses.	5.	Restrictions and Conditions Confidentiality of individual responses.
6.	Price Information Charge	6.	Price Information Charge.
7.	Corresponding Printed Sources Statistics Canada Publication 57-003	7.	Corresponding Printed Sources Statistics Canada Publications 61-205; 61-206
8.	Languages Reports are available in French and English.	8.	Languages Reports are available in French and English
9.	User Alds Available Not applicable.	9.	User Aids Avaitable Not applicable.
10.	Keywords Coal; Electricity; Energy; Hydrocarbons; Industry.	10.	Keywords Expenditures; Financial management; Local government; Municipalities.
11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2166.	11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1733.

	Local Government Gross Revenue and Expenditures (Actual Data)		Motor Carrier - Freight and Household Goods Movers Survey
ŧ.	Datafile Name(s) Not applicable.	t_	Datafile Name(s) Not applicable
2a	Summary Description of Contents This survey presents actual data on local government current revenue and expenditures and on capital expenditures in accordance with the concepts and definitions of the System of Government Financial Management Statistics.	2a.	Summary Description of Contents This is an annual survey composed of two sub-surveys. The Motor Carriers - Freight and Household Goods Movers Survey covers for-hire trucking establishments primarily engaged in the provision of local and long-distance trucking. This survey collects establishment-oriented industry statistics such as back instrument and activut data on the Coandian for hire trucking.
2b.	Purpose of the Database Database supports research, planning and policy requirements of government and industry		industry and transportation-oriented statistics on this mode of transport, such as the distance travelled, equipment operated and the number of carriers by type of operation. The survey also provides sufficient data upon which to delineate the
3a.	Name and Address of Responsible Organization Public Finance Section, Public Institutions Division, Statistics Canada, 20th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontano, K1A 0T6.		universe of the For-hire Trucking Survey (Truck Commodity Origin and Destination Survey), such as the intercity transportation revenue earned, the area of operation and the type of commodities carried.
3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Mr. Terry Moore (613) 951-8306 FAX: (613) 951-0661	2b.	Purpose of the Database Research, planning and policy requirements for transport statistics.
3c.	Access Mechanisms Through the responsible organization.	За.	Name and Address of Responsible Organization Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building, Others, October 414,070
4a.	 revenue by source and expenditure by function on the basis of the Financial 		Untawa, Untario, KTA 016.
	Management System - capital expenditures	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579
4b.	Geographic Coverage Canada	30.	Access Mechanisms Through the responsible organization
4c.	Data Acquisition Method(s) Administrative survey. 100% extraction from administrative tiles.	4a.	Variables Included (summarized if extensive) - form of ownership; type of carrier; area of operation, operating revenue and tonnage, consists evenue and consists based in a consists area of the second seco
4d.	Geographic Unit(s) of Measurement Canada; Provinces; Territories.		balance sheet; employment; fuel consumption; equipment and estimated distance travelled; classification of employment; and employees and commencation
40.	Period of Record Since 1945		by type of employment; revenue equipment operated at close of year
41	Update Frequency Annually.	4b.	Geographic Coverage Canada
49.	Database Hardware/Software Configuration Not applicable	4c.	Dita Acquisition Method(s) Direct survey of 5,000 establishment sample 50% set-completion, mail out/mail back: 45% telephone interview, 5% face to face personal
4h	Output Format(s) (tables, mape, etc.) Standard tabulation or data file - a) Hard copy/printout, b) Diskette Reports, CANSIM.		interview. Collection period from March to October
5	Restrictions and Conditions Release time 30 months after the reference year Confidentiality of individual responses	4d	Geographic Unit(s) of Measurement Establishments; Canada, Provinces; Territones. Period of Record Since 1974.
6.	Price Information Charge.	41	Update Frequency Annual
7	Corresponding Printed Sources Statistics Canada Publication 68-204	40	Datubase Hardware/Software Configuration Not applicable
	Languages Departs are qualible in French and English	Ab.	Particute Commenter / Indulate manuel atta 3 Standard tobulation or data file by close (L. H. III)
о. q	Languages reports are available in French and English	*#E1.	Method(s) of dissemination include hard copy/printout, and tape. Customised tabulation or dist file also customised analytical studies. Benots
10.	Keywords Expenditures, Local government; Municipalities; Revenue, Waste management;	5.	Restrictions and Conditions Release time December following the reference fiscal year.
	Wastes		Confidentiality of individual responses.
11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1731	6.	Price Information Charge
		7.	Convisionating Printed Sources Statistics Canada Publications 50-002; 53-222.
		8.	Languages Reports are available in French and English.
		9.	User Aide Avaitable Not applicable.
		10.	Keyworde Motor vehicles; Transportation; Trucking.
		11.	Additional Information 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2742. 2. 1§78 - Conversion to metric. 3. Survey undergoing analysis for revision. 4. The reporting unit is the "establishment" as defined in the Standard Industrial

4. The reporting unit is the "establishment" as defined in the Standard Industrial Classification Manual (Catalogue 12-501). However, in some instances, two or more establishments are reported and processed as a unit, because separate accounts are not kept by the respondents.

	National Cancer Incidence Reporting System		National Farm Survey (NFS)
1.	Datafile Name(s) Not applicable	1	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Cancer incidence by type of cancer. The file includes geographic, demographic and personal identifying information.	2a	Summary Description of Contents This survey produces annual data on the agricultural sector. It is based on a sample of farming operations.
2b.	Purpose of the Database The system provides information on the incidence of cancer by population characteristics and geographic region, allows the monitoring dicharges in trends of new purpose of cancer incidence over time, and	2b.	Purpose of the Database The survey serves the need for inter-censal information on agriculture
	provides a data base for medical follow-up studies.	За.	Name and Address of Responsible Organization Agriculture Division, Statistics Canada, 12th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
la	Name and Address of Responsible Organization Information Production Unit, Canadian Centre for Health Information, Statistics Canada, 18th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, Ontario, K1A 016.	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Phillip Stevens (613) 951-2435 FAX: (613) 951-3868
36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Nelson Nault (613) 951-1746 FAX (613) 951-0792	3c.	Access Mechanisma Through the responsible organization.
lc.	Access Mechanisms Through the responsible organization.	4a.	Variables Included (summarized if extensive) operating arrangements Induse particularly areas seeded
la.	Variables Included (summarized if extensive) - age and sex		- cattle and calves
	- province of residence - SGC (code)		 sheep and wool other livestock or poultry
	 site of tumour, morphology of tumour birthdate and birthplace place of residence 		farm business expenses agricultural receipts capital values
	death date source of registration	4b.	Geographic Coverage Provinces
	- method of diagnosis	4c.	Data Acquisition Method(s) Direct survey of 50,000 farms (provinces only, no
46	Geographic Coverage Canada		territones). Data collection methods include 70.9% telephone interview; 19.8% face to face personal interview; 6.4% self-completion, mail out/mail back; 2.9% self-completion, mail
lc.	Data Acquisition Method(s) Administrative survey 100% extraction from administrative files. Collection period continuous at provincial level, data are reported annually to		out/pick up. Collection period from May 23 to July 7.
	Statistics Canada as they are available.	4d	Geographic Unit(s) of Measurement Provinces; Selected subprovincial regions.
d.	Geographic Unit(s) of Measurement Canada; Provinces; Territories; Census divisions.	40	Period of Record Since 1972.
e.	Period of Record Since 1969.	4f.	Update Frequency Annual.
41	Hodate Frances Annually	40	Database Hardware/Software Configuration. Not applicable

4h

5

6

data file

- Database Hardware/Software Configuration Not applicable. 4a.
- 4h Output Format(s) (tables, maps, etc.) Standard tabulation or data file hard copy/printout. Customised tabulation or data file also available. Number of variables 15. Main variables. Socio-demographic status, Cancer site, Histology of the cancer (since 1979) only), Date and method of diagnosis, Residence of patient (may also include deaths due to cancer and hospital separations where responsible diagnosis was cancer). Reports, CANSIM.
- 5 Restrictions and Conditions Release time 3 to 4 years after the reference calendar year. Confidentiality of individual responses.
- 6 Price Information Charge
- Corresponding Printed Sources Statistics Canada Publication 82-207. Non-catalogued 7 publications include: Estimating Current Year Cancer Incidence and Mortality in Canada An Evaluation of Data Sources and Methodology - Dolson, D.D., Gaudette, L.A.
- 8 Languages Reports are available in French and English
- 9 User Aids Available Not applicable.
- Keywords Cancer; Diseases; Health; Morbidity. 10.
- 11 Additional Information
 - Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3207.
 - Dither Unpublished Data Products: Name: Cancer Incidence. Table A New Primary 2 Sites of Cancer by ICO-9 Code, ICO-0 Morphology Code, Province of Residence and Sex (Table B - substitutes age group for province of residence), Method(s) of dissemination: Hard copy/printout, Name: Summary Data File: counts of new primary sites of cancer by 3 digit ICO code by province, sex, year of diagnosis and five year age group are available, together with corresponding population data from 1970-1984, Method(s) of dissemination: Tape
 - Canadian Cancer statistics is produced annually in collaboration with the Canadian Cancer Society

Price Information Charge

Restrictions and Conditions Confidentiality of individual responses.

7 Corresponding Printed Sources Statistics Canada Publications 21-603; 22-002; 23-008; 23-203

Output Format(s) (tables, maps, etc.) Standard tabulation or data file. Method of

dissemination: a) Hard copy/printout, b) Diskette, c) Tape. Also customised tabulation or

- Languages Report is bilingual; database is in English. 8
- 9 User Aids Available Not applicable.
- 10. Keywords Agriculture; Land use; Livestock

Additional Information 11.

- Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3439. 1988 - From 1983 to 1987 inclusive, the NFS survey design was based on the data 2 from the 1981 Census of Agriculture. For the 1988 survey, the survey was redesigned using the 1986 Census of Agriculture results. In addition, when this redesigning was done, the June survey of areas seeded, which until then had been carried out independently of the NFS, was combined with the latter. The redesign was also accompanied by important changes in data-collection methods
- New list and area samples are to be selected on the basis of the 1991 census results. 3. Crop areas: Tabulations from first contact provided the 3rd week in June, Tabulations from second contact provided the 2nd week in August, Final tabulations provided the 2nd week in September; Livestock inventories: Tabulations from 2nd contact provided the 2nd week in August, Final tabulations provided the 2nd week in September; Expenses: Tabulation from second contact provided the 2nd week in August, Second tabulation from second contact provided the 2nd week in September, Final tabulations provided the 2nd week in October.

	Passenger Bus and Urban Transit Statistics	100	Production and Shipments of Plastic Bottles
	(Annual)		(Biow-Mouided)
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a.	Summary Description of Contents Contains a variety of information on the operating characteristics of the passenger bus and urban transit industry.	2a.	Summary Description of Contents This survey collects quarterly information on production and shipments from approximately 46 Canadian manufacturers of blow-moulded plastic bottles (both captive and those that ship bottles)
2b.	Purpose of the Database The objectives of the Passenger Bus and Urban Transit Survey, by priority, are as follows to provide establishment-oriented industry statistics such as basic input and output data of the Canadian passenger bus and	2b.	Purpose of the Database Database supports research, planning and policy development.
	urban transit industries; to provide transportation-oriented statistics, including distance run, passengers and equipment operated, and, to classify new establishments entering the industry.	За	Name and Address of Responsible Organization Survey of Manufactures Section (Non durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building
3a.	Name and Address of Responsible Organization Surface and Marine Transportation Section Transportation Division Statistics Canada 12th Floor Jean Talon Building	35	Contact Person(a) Address (if different from 3a) Telephone and FAX Number(a)
	Tunney's Pasture, Ottawa, Ontario, K1A 0T6		Mr Raj Sehdev (613) 951-3513 FAX (613) 951-3522
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579	3c	Access Mechanisms. Through the responsible organization
30.	Access Mechanisms Through the responsible organization	4a	Variables Included (summarized if extensive) type of bottles
4a.	Variables Included (summarized if extensive)		 production shipments
	operating revenue and traffic operating expenses		total by size
	- income account, balance sheet		- materials used
	equipment and estimated distance travelled		 type of resin
	- employment	4b.	Cieographic Coverage Canada.
	- general information		
	- passengers	4c.	Data Acquisition Method(s) Direct survey of 46 manufacturers. 100% self-completion
	- energy - vehicle		In all out/mail back. Collection period from the 10th to the 26th day of the month following the nuarter
	- capital expense		Community Index) of Management Fairblick-seet. One of
4b.	Geographic Coverage Canada.	40.	Grographic Unit(a) of Measurement Establishments; Ganada.
		40.	Period of Record Since 1978
4c	Data Acquisition Method(s) Direct survey of 1,000 establishments. 98% self-completion, mail out/mail back, 2% extraction from administrative files. Collection period from March to October	4f	Update Frequency Quarterly.
4d.	Geographic Unit(s) of Measurement Establishments; Canada; Provinces, Territories.	49.	Database Hardware/Software Configuration Not applicable.
40	Period of Record Since 1974	4h.	Output Format(s) (tables, maps, etc.) Reports.
41	Update Frequency Annual.	5.	Restrictions and Conditions Release time 6 weeks after the reference quarter Confidentiality of individual responses.
4g.	Database Hardware/Software Configuration Not applicable.	6.	Price Information Charge.
4h.	Output Format(s) (tables, maps, etc.) Customised tabulation or data file. Customised analytical studies. Reports	7.	Conceponding Printed Sources Statistics Canada Publication 47-006.
5	Restrictions and Conditions Release time December following the reference fiscal year	8.	Lan; uages Reports are available in French and English.
	Confidentiality of individual responses.	9.	User Aids Available Not applicable.
6.	Price Information Charge.	10.	Keywords Bottles; Packaging; Plastic; Plastic bottles.
7.	Corresponding Printed Sources Statistics Canada Publication 53-215.	11.	Additional Information 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2197
8.	Languages Reports are available in French and English.		2. Fevisions made to preceding quarter(s) within the calendar year.
9,	User Aids Available Not applicable.		
10.	Keywords Transportation; Urban transit; Vehicles.		
11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2743		

Statistics Canada

	Production, Shipments and Stocks On Hand		Production, Shipments and Stocks On Hand
	of Sawmills East of the Hockles		of Sawmills in British Columbia
1.	Detafile Name(s) Not applicable	1, 0	Datafile Name(s) Not applicable
2a.	Summary Description of Contents The survey collects on a monthly basis (quantity figures only), information on the production, shipments and stocks on hand of lumber and ties of sawmills east of the Rockies from approximately 317 manufacturers of lumber and ties. These manufacturers represent at least 80% of	2a. 9 (1	cummary Description of Contents This survey collects, on a monthly basis, quantity figures only), information on the production, shipments and stocks on hand f lumber and ties of sawmills in British Columbia.
0 L	the total lumber production in each province covered by the study.	26. F	Purpose of the Database Serves data requirements of both industry and overnment.
20.	government.	3a. M	lame and Address of Responsible Organization Survey of Manufactures Section Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building,
3a.	(Durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6	3b. C	unney's Pasture, Ottawa, Ontano, K1A 016. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Jacques Lepage (613) 951-3516 FAX: (613) 951-3522	3c. A	fr. Jock Dobie (604) 666-2671 FAX: (613) 951-3522 cccess Mechanisms Through the responsible organization
3c.	Access Mechanisms Through the responsible organization.	4a. V	ariables included (summarized if extensive)
4a.	Variables Included (summarized if extensive)		production stocks
	- production	-	receipts from lumber and ties
	- stocks	-	disposals of lumber and ties
	- total somwoods	•	production, shipments, waste disposal and stocks of pulp chips
	- receipts of lumber	4b. C	Geographic Coverage British Columbia.
	- disposal of lumber		
	 transfers out waste and other losses 	4c. 0	lata Acquisition Method(s) Direct survey of 169 establishments that represent 95% of otal known production. 100% self-completion, mail out/mail back. Collection period
4b.	Geographic Coverage Nova Scotia; New Brunswick; Québec, Ontario; Manitoba; Saskatchewan; Alberta	4d. (nonthip Seographic Unit(s) of Measurement Establishments; British Columbia; Other: B.C.
4c.	Data Acquisition Method(s) Direct survey of 317 establishments 100% self-completion, mail out/mail back. Collection period monthly (end of each month).	4e. F	Coast, B.C. Interior.
4d.	Geographic Unit(s) of Measurement Establishments; Provinces.	4f. L	Ipdate Frequency Monthly.
4 0 .	Period of Record Since 1946.	4g. C	Database Hardware/Software Configuration Not applicable.
4 f.	Update Frequency Monthly	4h. C	Dutput Format(s) (tables, maps, etc.) Reports, CANSIM.
4g.	Database Hardware/Software Configuration Not applicable	5. F	Restrictions and Conditions Release time 38 working days after the reference month. Confidentiality of individual responses.
4h.	Output Format(s) (tables, maps, etc.) Publications; CANSIM.	6. F	Price Information Charge.
5	Restrictions and Conditions Release time 38 working days after the reference month.	7. (Corresponding Printed Sources Statistics Canada Publication 35-003
6.	Price Information Charge.	8. 1	un grunges Reports are available in French and English.
7.	Corresponding Printed Sources Statistics Canada Publication 35-002	9 1	Jaer Aida Available Not applicable
8.	Languages Reports are available in French and English.	10. 1	Keywords Forestry Industry Sawmills.
9	User Aids Available Not applicable	11. /	Additional Information
10.	Keywords Forestry; Industry; Sawmills	1	Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2135. All current guestionnaires, surveys and publications are reviewed on an annual basis.
11.	Additional Information 1. Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2134, 2. Benchmarked to Annual Survey of Manufactures, updated once a year.		

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	Projections of Population, Households and Families for Canada and the Provinces		Provincial Government Revenue and Expenditure (Estimates and Actual Data)
1.	Datafile Name(s) Not applicable.	1	Datafile Name(s) Not applicable.
2a	Summary Description of Contents Projections of population, households and families for Canada, the provinces and territories are developed and published after each new census. The projections span a period of 25 years for provinces and 50 years for national figures and are given by age and sex.	2a.	Summary Description of Contents This survey documents the revenues and expenditures of the provincial and territorial governments and their respective boards, agencies and commissions on the basis of the Financial Management System. Estimates are compiled from data made available by provincial authorities at budget time. Actual data are later compiled when public accounts are published
2b.	Purpose of the Database Database supports research, planning and policy requirements of government and industry.		by provincial governments.
3a.	Name and Address of Responsible Organization Population Projections Section, Demography Division, Statistics Canada, 6th Floor, Jean Talon Building, Tunney's Pasture,	20	Purpose of the Usrabase Database supports research, planning and policy requirements of government and industry.
3b.	Ottawa, Ontario, K1A 0T6 Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	3a	Name and Address of Responsible Organization Public Finance Section, Publi Institutions Division, Statistics Canada, 20th Floor, R.H. Coats Building, Tunney's Pasture Ottawa, Ontario, K1A 016.
	Ms. Jeanine Perreault (613) 951-2346 Dr. M.V. George (613) 951-9580 FAX (613) 951-2307	3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Terry Moore. (613) 951-8306 FAX (613) 951-0661
3c.	Access Mechanisms Through the responsible organization.	30	Access Mechanisms Through the responsible organization.
4 a.	Variables included (summarized if extensive) population by age and sex projected annual numbers of births, migrants and deaths	4a.	Variables Included (summarized if extensive) revenue by source and expenditure by function on the basis of the Financial Management System.
	types of households/familes age and sex of household/family maintainer	4b.	Ceographic Coverage Canada.
4b.	Geographic Coverage Canada.	4c.	Data Acquisition Method(s) Administrative survey. 100% extraction from administrative files. Collection period from April to June
4c.	Data Acquisition Mothod(s) Simulation.	4.4	Chemenhie Helde) of Blacetmement, Canada: Developer, Tautorine
4d.	Geographic Unit(s) of Measurement Canada, Provinces, Other: On request	40	Carada, Provinces, reminines.
40.	Period of Record Since 1969.	40	PERIOD OF HECOTO SINCE 1950
41	Update Frequency Quinquennial.	1	De unhans Handware Cartinuetion Not analyship
		49	Database Hardware/Sontware Connguration 1401 applicable
4g.	Detabase Hardware/Software Configuration Not applicable.	4h.	Ourput Format(s) (tables, maps, etc.) Customised tabulation or data file. Report CAIVSIM
4911.	demand - a) Hard copy/printout, b) Diskette, c) Tape, d) Other, cartridge. Customised tabulations, forecasts etc. Reports, CANSIM	5	Restrictions and Conditions Release time estimates are available June 30th of th reference fiscal year; Actual data are available in March, 24 months after the reference fiscal year. Confidentiality of individual responses
5.	Restrictions and Conditions Release time about 3 years after the date of the Census of Population	6	Price Information Charge
6.	Price Information Charge	7.	Corresponding Printed Sources Statistics Canada Publication 68-207.
7.	Corresponding Printed Sources Statistics Canada Publications 91-520, 91-522.	8.	Languages Reports are available in French and English.
8.	Languages Reports are bilingual.	9.	User Aids Available Not applicable
9.	User Aids Available Not applicable.	10.	Keywords Expenditures; Government; Revenue.
10.	Keyworde Demography; Households; Population	11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 1720
11.	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 3602.	1	

Road Motor Vehicle Survey (Fuel) Road Motor Vehicles (Registration) Datalie Name(s), Not applicable 1 Datalie Name(s), Not applicable 1 Summary Description of Contents. This survey collects a mothly summary of leal aske devered from survey collects. This survey collects and minimative records. 1 Datalies Name(s), Not applicable 2 Purpose of the Database. Database supports research, planning and polor requirements of government and industry. 2 Summary Description of Contents. This survey presents statistics on read motor webber regulations. Statistic Granutation Survey presents statistics on read industry. Name and Address of Perspondial Database. Database supports research, planning and polor requirements of government and industry. 2 Perspond (f) Enabhase. Database supports research, planning and polor requirements of government and industry. Name and Address of Perspondial Database. Database supports research, planning and polor requirements of government and industry. 3 Name and Address of Respondial Database. Database supports research, planning and polor requirements of government and industry. Construct Development and industry. Address of Respondial Database. Database supports research, planning and polor requirements. 2 Construct Development and Address of Respondial Database. Database and Address of Respondial Database. 3 Access Mechanisma: Through the responsible organization. Variables Included (ummarized If act		and the second se
Database Neereds 1 Database Neereds 1 Database Neereds Summary Description of Contents This survey collects a monthly survey frequencies database supports research, planning and polog 2 Summary Description of Contents This survey constraints of the model survey frequencies database supports research, planning and polog Represent of Description of Contents This survey constraints of the model survey frequencies database supports research, planning and polog 2 Purpose of the Database supports research, planning and polog Responsible Organization Surface and Marine Transportation Surface and Park Nettore II 2 Responsible Organization Surface and Marine Transportation Surface and Park Nettore III Contact Person(s), Address (of Hereportable Organization Surface and Park Nettore IIII 2 Contact Person(s), Address (of Hereportable Organization Surface and Park Nettore IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Road Motor Vehicle Survey (Fuel)	Road Motor Vehicles (Registration)
Summary Description of Contents This survey collects a monthly survey of local sales derived from providal and lamitotical local sets tax atministratore records.28.Summary Description of Contents This survey presents statistics on administratore records.Purpose of the Detabase Database supports research, planning and poly requirements of governments of governments of governments of governments of governments.29.Purpose of the Detabase Database supports research, planning and poly requirements of governments.29.Purpose of the Detabase Database supports research, planning and poly requirements of governments.20.Name and Address of Responsible Organization. Subsistic Canada, 12th Floor, Jean Takin Database Subsistic Canada, 12th Floor, Jean Takin Database 	Datafile Name(s) Not applicable.	1. Datafile Name(s) Not applicable
Purpose of the Database Database supports research, planning and poly requirements of government and industry 2: Purpose of the Database Supports research, planning and poly requirements of government and industry Name and Address of Responsible Organization Surface and Maine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, 12th Floor, Jean Talon Building Transport Talon Subtace Statistics Canada, Provinces, Tarnsportation Talon Subtace Statistics Canada Publication Statistics Canad	Summary Description of Contents This survey collects a monthly summary of fuel sales derived from provincial and territorial fuel sales tax administrative records.	2a. Summary Description of Contents This survey presents statistics on road motor vehicle registrations, drivers' licences and dealers' permits, as obtained from the provincial and territorial governments.
Name and Address of Responsible Organization Surface and Mainer Transportation Tunney's Pasture, Ottawa, Ontano, K1A 016 Name and Address of Responsible Organization Surface and Mainer Transportation Contect Person(s), Address (if different from 3a), Telephone and FAX Number(s) Name and Address of Responsible Organization Surface and Mainer Transportation Variables Included (summarized if extensive) Surface and Autometer Surface and Autometer - stables of gasoline and availon turbo-fuel Surface and Autometer Surface and Autometer - stables of gasoline and availon turbo-fuel - which ereponsible organization Surface and Autometer - stables of gasoline and availon turbo-fuel - which ereponsible organization - which ereponsible organization - stables of gasoline and availon turbo-fuel - which ereponsible organization - which ereponsible organization - stables included (summarized if extensive) - which ereponsible organization - which ereponsible organization - stables from different from 3ab, response and FAX Number(s - which ereponsible organization - which ereponsible organization - stables included (summarized if extensive) - which ereponsible organization - which ereponsible organization - stadestavistion for turbe form - which erepo	Purpose of the Database Database supports research, planning and policy requirements of government and industry	2b Purpose of the Database Database supports research, planning and policy
 Tunney Prasulue, Uniawa, Uniaba, Ki A Ote Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Yamm Shehh (613) 951-2518 FAX. (613) 951-0579 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Kay Mann Shehh (613) 951-2518 Contact Person(a), Address (if different from 3a), Telephone and FAX Number(s) Addelse Included (nummatical if extensive) Variables Included (nummatical if extensive)<	Name and Address of Responsible Organization Surface and Marine Transportation Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Building,	3a. Name and Address of Responsible Organization Surface and Marine Transportation
Ms Yasmin Sheikh (613) 951-2518 FAX (613) 951-0579 3b Contect Person(a), Address (if different from 3e), Telephone and FAX Number(a Ms, Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579 Access Mechanisms Through the responsible organization 4c Variables included (summarized if extensive) 5c Access Mechanisms Through the responsible organization - sales of gasoline and aviation turbo-fuel - whole registration by type - whole registration by type - whole registration by type - inguefie petroleum gases - divers informatical if extensive) - whole registration by type - inguefie petroleum gases - divers informatical if extensive) - whole registration by type - induced registration Method(s) Information is derived from provincial and territorial fuelsales 4c Ceographic Coverage Canada. - dealers permits - transfers from other provinces. - divers information is collected from the provinces. - eriod of Record Since 1939 Update Frequency Monthly. - - Database Herdware/Software Configuration Not applicable - - - Output Format(s) (tables, maps, etc.) Siandard tabulation or data file - hard - - - Condidentiatity of individual responses - - -	Iunney's Pasture, Ottawa, Ontano, K1A 016. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	. Section, Transportation Division, Statistics Canada, 12th Floor, Jean Talon Build Tunney's Pasture, Ottawa, Ontario, K1A 0T6
Variables Included (summarized if extensive) 3c Access Mechanisms Through the responsible organization. Variables Included (summarized if extensive) - valies organization turbo-fuel - valies organization by type - liqueled patroleum gases - dealers organization by type - valies organization. - description and other fuels - dealers organization. - valies organization. - dealers organization turbo-fuel - under store organization. - valies organization. - dealers organization of the responsible organization. - valies organization. - valies organization. - dealers organization turbo-fuel - valies store organization. - valies organization. - dealers organization. - dealers organization. - valies organization. - dealers organization. - dealers organization. - valies organization. - dealers organization. - dealers organization. - valies organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organization. - dealers organind dealersorganization. - dealers organiz	Ms Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579	3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s Ms. Yasmin Sheikh (613) 951-2518 FAX: (613) 951-0579
Variables included (summarized if extensive) 4. sales of gasoline and variable in turbo-fuel - vehicles rightation by type - idguided patroleum gases - vehicles rightation by type - disable and other fuels - vehicles rightation by type - design and variable in fuels - vehicles rightation by type - design and variable in fuels - vehicles rightation by type - design and variable in fuels - vehicles rightation by type - design and variable in fuels - transfers from other provinces - design and variable in fuels - transfers from other provinces - design and variable in fuels - transfers from other provinces - design and variable in fuels - design and variable in from other provinces - design and variable in freences - design and variable in freence in Statistical Data Documentation Statis Statistical Data Documentation Statistical Da	Access Mechanisms Inrough the responsible organization.	3c Access Mechanisms Through the responsible organization.
 Inglete period of and other liefs diesd of and other liefs diefs of and other lie	Variables Included (summarized if extensive) - sales of gasoline and aviation turbo-fuel linuclind patroleum pages	4a. Variables Included (summarized if extensive)
Geographic Ceverage Canadatransfers from other provincesData Acquisition Method(s) Information is derived from provincial and territorial fuelsals tax administrative records.4b. Geographic Coverage Canada.Geographic Unit(s) of Measurement Canada, Provinces, Territories.4c.Data Acquisition Method(s) Derived survey. Information is collected from the provin and territorial government departments responsible for motor vehicle registrat Collection period from January to August.Period of Record Since 1939.4d.Geographic Unit(s) of Measurement Canada, Provinces, Territories.Update Frequency Monthly.4d.Geographic Unit(s) of Measurement Canada, Provinces, Territories.Database Herdware/Software Configuration Not appicable.4e.Period of Record Since 1933.Output Format(s) (tables, maps, etc.) Standard tabulation or data file and costomised tabulation or data file and customised analytical studies Reports.4e.Database Herdware/Software Configuration Not appicable.Restrictions and Conditions Release time 8 months after the reference month Confidentiatity of individual response.6e.Price Information Charge.Price Information Charge.6.Price Information Charge.7.Corresponding Printed Sources Statistics Canada Publication 53-218.Languages Reports are available in French and English9.User Aids Available Not applicable.9.Vier Aids Available Not applicable9.User Aids Available Not applicable.9.Keywords Fuel; Gasoline, Motor vehicles; Transportation.10.Keywords Motor vehicles; Transportation.Additional Information Also referenced in Statistical Data Documen	- diesel oil and other fuels	- driver's licenses - dealers' permits
Data Acquisition Method(s) Information is derived from provincial and territorial fuel sales tax administrative records: 4b. Geographic Coverage Canada. Geographic Unit(s) of Measurement Canada, Provinces, Territories. 4b. Data Acquisition Method(s) Derived survey. Information is collected from the province and territorial government departments responsible for motor vehicle registrat Collection period from January to August. Period of Record Since 1939. 4d. Geographic Unit(s) of Measurement. Canada, Provinces, Territories. Update Frequency Monthly. 4e. Period of Record Since 1903. 4f. Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copylorintor. Customised tabulation or data file and customised analytical studes. 4g. Database Herdware/Software Configuration. Not applicable. Reports 4d. Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copylorintor. 4g. Database Herdware/Software Configuration. Not applicable. Reports 4d. Output Format(s) (tables, maps, etc.) Reports, CANSIM 5e. Price Information Charge. 5e. Price Information Charge. 5e. Price Information Charge. 5e. Price Information Charge. 5e. Price Information Charge. 5e. Price Information Charge. 5e. Price Information Charge. 5e. Price Information Charge.	Geographic Coverage Canada.	transfers from other provinces
Ceographic Unit(s) of Measurement Canada, Provinces, Territories. For Data Acquisition Method(s), Derved survey. Information is collected from the province and territorial government degattments, responsible for motor vehicle registrat Collection period from January to August. Period of Record Since 1939 Update Frequency Monthly. 4d. Database Hardware/Software Configuration Not applicable. Update Frequency Annually. 4d. Output Format(s) (tables, maps, etc.) Standard tabulation or data file and customised analytical studies. Period of Record Since 1903 Reports 4d. Update Frequency Annually. 4d. Voptate Frequency Individual responses. Formation individual response. Formation Not applicable. Price Information Charge. Fore Information Charge. Fore Information Charge. Corresponding Printed Sources Statistics Canada Publication 53-218. Fore Information Charge. Fore Information Charge. User Aids Available Not applicable 9. User Aids Available Not applicable 9. Keywords Fuel, Gasoline, Motor vehicles; Transportation. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2745. 9. User Aids Available Not applicable.	Data Acquisition Method(a) Information is derived from provincial and territorial fuel sales tax administrative records.	4b. Geographic Coverage Canada.
Period of Record Since 1939 4 Geographic Unit(s) of Measurement Canada; Provinces; Territories. Update Frequency Monthly. 4 Period of Record Since 1903 Database Hardware/Software Configuration Not applicable. 41. Update Frequency Annually. Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copy/printoul. Customised tabulatintore file - hard copy/printoul. Customised ta	Geographic Unit(s) of Measurement Canada; Provinces, Territories	4c. Data Acquisition Method(s) Derived survey. Information is collected from the provin and territorial government departments responsible for motor vehicle registrat Collection period from January to August.
Update Frequency Monthly. 4e Period of Record Since 1903 Database Hardware/Software Configuration Not applicable. 4e Period of Record Since 1903 Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copylignitod. Customised tabulation or data file and customised analytical studies. Reports 4e Database Hardware/Software Configuration Not applicable. Restrictions and Conditions Release time 8 months after the reference month Confidentiality of individual responses. 4h Output Format(s) (tables, maps, etc.) Reports, CANSIM Price Information Charge. 5. Restrictions and Conditions Release time 9 to 10 months after the reference fiscal yst Confidentiality of individual responses. 6. Price Information Charge. 6. Corresponding Printed Sources Statistics Canada Publication 53-218. 8. Languages Reports are available in French and English. 8. Languages Reports are available in French and English. 9. User Aids Available Not applicable. 10. Keywords Moto	Period of Record Since 1939	4d. Geographic Unit(s) of Measurement Canada; Provinces; Territories.
Database Hardware/Software Configuration Not applicable. 41. Update Frequency Annualy. Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copy/printout. Customised tabulation or data file and customised analytical studies. 49. Database Hardware/Software Configuration Not applicable. Restrictions and Conditions Release time 8 months after the reference month Confidentiality of individual responses. 44. Output Format(s) (tables, maps, etc.) Reports, CANSIM. Price Information Charge. 5. Restrictions and Conditions Release time 9 to 10 months after the reference fiscal ys Confidentiality of individual responses. Price Information Charge. 6. Price Information Charge. Corresponding Printed Sources Statistics Canada Publication 53-218. 7. Corresponding Printed Sources Statistics Canada Publication 53-219. Languages Reports are available in French and English. 8. Languages Reports are available in French and English. Viser Aids Available Not applicable 9. User Aids Available Not applicable. 9. Keywords Fuel, Gasoline, Motor vehicles; Transportation. 10. Keywords Motor vehicles; Transportation. 10. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746. 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2747. <td>Update Frequency Monthly.</td> <td>4e. Period of Record Since 1903</td>	Update Frequency Monthly.	4e. Period of Record Since 1903
Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copy/printout. Customised tabulation or data file and customised analytical studies. Reports 4g Database Hardware/Software Configuration Not applicable. Restrictions and Conditions Release time 8 months after the reference month. 5. Contresponding Printed Sources Statistics Canada Publication 53-218. 5. Languages Reports are available in French and English. 6. User Aids Available Not applicable 9. Keywords Fuel, Gasoline; Motor vehicles; Transportation. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 9. User Aids Available	Database Hardware/Software Configuration Not applicable.	4f. Update Frequency Annually.
AbsolutionsAbsolution	Output Format(s) (tables, maps, etc.) Standard tabulation or data file - hard copy/printout. Customised tabulation or data file and customised analytical studies. Reports	4g Database Hardware/Software Configuration Not applicable.
Confidentiality of individual responses. 5. Restrictions and Conditions Release time 9 to 10 months after the reference fiscally in Confidentiality of individual responses. Price Information Charge. 6. Price Information Charge. Corresponding Printed Sources Statistics Canada Publication 53-218. 7. Corresponding Printed Sources Statistics Canada Publication 53-219. Languages Reports are available in French and English. 8. Languages Reports are available in French and English. User Aids Available Not applicable 9. User Aids Available Not applicable. Keywords Fuel, Gasoline; Motor vehicles; Transportation. 10. Keywords Motor vehicles; Transportation. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746. 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS)	Restrictions and Conditions Release time 8 months after the reference month	4h Output Format(s) (tables, maps, etc.) Reports, CANSIM
Price Information Charge. 6. Price Information Charge. Corresponding Printed Sources Statistics Canada Publication 53-218. 7. Corresponding Printed Sources Statistics Canada Publication 53-219. Languages Reports are available in French and English. 8. Languages Reports are available in French and English. User Aids Available Not applicable 9. User Aids Available Not applicable. Keywords Fuel, Gasoline; Motor vehicles; Transportation. 10. Keywords Motor vehicles; Transportation Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746. 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS)	Confidentiality of individual responses.	 Restrictions and Conditions Release time 9 to 10 months after the reference fiscal y Confidentiality of individual responses.
Corresponding Printed Sources Statistics Canada Publication 53-218. Languages Reports are available in French and English. User Aids Available Not applicable Keywords Fuel, Gasoline; Motor vehicles; Transportation. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 11. Additional Information Additional Information Also referenced in Statistical Data Documentation System (SDDS)	Price Information Charge.	6. Price Information Charge.
Languages Heports are available in French and English. 8 Languages Reports are available in French and English. User Aids Available Not applicable 9 User Aids Available Value Keywords Fuel, Gasoline; Motor vehicles; Transportation. 9 User Aids Available Not applicable. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 10. Keywords Motor vehicles; Transportation	Corresponding Printed Sources Statistics Ganada Publication 53-218.	7. Corresponding Printed Sources Statistics Canada Publication 53-219
User Aids Available Not applicable 9. User Aids Available Not applicable. Keywords Fuel, Gasoline; Motor vehicles; Transportation. 9. User Aids Available Not applicable. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 10. Keywords Motor vehicles; Transportation. 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2747. 11.	Languages Heports are available in French and English.	8. Languages Reports are available in French and English
Keywords Fuel, Gasoline; Motor vehicles; Transportation. 10. Keywords Motor vehicles; Transportation Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 10. Keywords Motor vehicles; Transportation 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS)	User Aids Available Not applicable	9. User Aids Avaitable Not applicable.
Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746 11. Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2747.	Keywords Fuel, Gasoline; Motor vehicles; Transportation.	10. Keywords Motor vehicles; Transportation
	Additional Information Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2746	11. Additional Information Also referenced in Statistical Data Documentation Sys (SDDS) as Survey # 2747.

	Shipments of Plastic Film and Bags Manufactured from Resin		Thermal Generating Station Fuel Consumption
1,	Datafile Name(s) Not applicable.	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents This survey collects quarterly information on production and shipments from 58 Canadian manufacturers of plastic film and bags.	2a.	Summary Description of Contents This is an annual survey collecting fuel consumption data from approximately 475 thermal generating plants
2b	Purpose of the Database Supports requirements for information on this sector of the packaging industry	2b.	Purpose of the Database Database supports research, planning and policy requirements for statistics on energy consumption.
3a.	Name and Address of Responsible Organization Survey of Manufactures Section (Non- durable Goods), Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 016	За.	Name and Address of Responsible Organization Electricity and Coal Unit, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Raj Sehdev (613) 951-3513 FAX (613) 951-3522	36	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dave Madsen (613) 951-3565 FAX: (613) 951-3522
3c.	Access Mechanisms Through the responsible organization	30	Access Mechanisms Through the responsible organization.
4.4	Variables included (summarized if extensive)	42	Variables included (summarized if extensive)
	· production	40	 type of station or component
	- shipments		- fuel
	destination		- average heat content
	- types of products		avoide content
	Alter of higher of the second	100	total cost
4b.	Geographic Coverage Canada.		- generation
4c	Data Acquisition Method(s) Direct survey of 58 establishments. 100% self-completion,	4b.	Geographic Coverage Canada.
	mail out/mail back. Collection period from the 10th to the 26th of the month following the		
	relerence quarter	4c.	Data Acquisition Method(s) Direct survey of 475 generating plants. 100% set-completion, mail out/mail back. Collection period January 1 to March 1.
4d	Geographic Unit(s) of Measurement Establishments; Canada.		
4.	Desired of Descend (Circu 1070)	4d.	Geographic Unit(s) of Measurement Establishments; Canada, Provinces; Territories
40.	Period of Hecord Since 1978.		Dependent Dependent (DCC)
40		40	Net og of Hecold Silve 1822
41.	oposise Frequency Quarteny.		
		41	Update Frequency Annually.
49	Detabase Hardware/Software Configuration Not applicable		
		4g.	Database Hardware/Software Configuration Not applicable.
4h	Output Format(s) (tables, maps, etc.) Reports		
		4h	Out; ut Format(s) (tables, maps, etc.) Reports
5.	Restrictions and Conditions Release time 6 weeks after the reference quarter.		
	Confidentiality of individual responses.	5	Restrictions and Conditions Release time 1 year after the reference calendar year
		1.1	Confidentiality of individual responses.
6.	Price Information Charge		
		6	Price Information Charge
7	Corresponding Printed Sources Statistics Canada Publication 47-007	0	The member of a go.
	conception of the order of the	7	Companying Drinted Corpora Statistics Canada Dublication 52,000
0	I anymetere Reports are available in Franch and Earthab	1 '	Corresponding Franced Sources Statistics Canada Publication 57-202.
0	Cango and a valiable in French and English		
-		8	LongLages Reports are available in French and English
9	User Aids Available Not applicable		
		9	User /ids Available Not applicable
10.	Keywords Packaging; Plastic; Plastic bags; Plastic film.		
		10.	Keywords Energy; Fuel; Hydrocarbons; Thermal generating stations.
11.	Additional Information		
	1 Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2199	11	Additional Information Also referenced in Statistical Data Documentation System
	2. Revisions made to preceding guarter(s) within the calendar year		(SDDS) as Survey # 2196
		1	

Statistics Canada

Wholesale Trade Survey (Monthly)

- 1 Datafile Name(s) Not applicable
- 2a. Summary Description of Contents This survey presents estimates of monthly sales and inventories of wholesale merchant establishments classified by industry groups shown in the 1970 Standard Industrial Classification Manual, for Canada, and in aggregate for each province and territory.
- 2b Purpose of the Database Database supports research, planning and policy development.
- 3a Name and Address of Responsible Organization Wholesale Trade Section, Industry Division, Statistics Canada, 11th Floor, Jean Talon Building, Tunney's Pasture, Ottawa, Ontario, K1A 0T6.
- 3b Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gilles Berniquez (613) 951-3540 FAX: (613) 951-3522
- 3c. Access Mechanisms Through the responsible organization.
- 4a. Variables included (summarized if extensive)
 - geographical area
 - sales, receipts and inventories
- 4b. Geographic Coverage Canada.
- 4c. Data Acquisition Method(s) Direct survey of 2,700 establishment sample. 70% self-completion, mail out/mail back; 30% telephone interview. Collection period from 1st of following month to 7th of 3rd month.
- 4d. Geographic Unit(s) of Measurement Establishments; Canada; Provinces; Territories.
- 4e. Period of Record Since 1948
- 4f. Update Frequency Monthly.
- 4g. Database Herdware/Software Configuration Not applicable
- 4h. Output Format(s) (tables, maps, etc.) Reports, CANSIM
- Restrictions and Conditions Release time occurs 40 days after the reference month. Confidentiality of individual responses.
- 6. Price Information Charge.
- 7. Corresponding Printed Sources Statistics Canada Publication 63-008.
- 8. Languages Reports are available in French and English.
- 9. User Aids Available Not applicable.
- 10. Keywords Industry; Trade; Wholesaling.
- 11 Additional Information
 - Also referenced in Statistical Data Documentation System (SDDS) as Survey # 2401.
 Monthly estimates are revised to account for late response. Consequently, each month this publication contains preliminary estimates for the current month and revised estimates for the preceding month.
 - 3 1981 Methodology changed in regards to stratification, imputation, sampling and estimation and data now published under different breakdown (percentage changes Canada, Regions by major trade groups)
 - 4. 1989-01 This survey is now under revision (WATS redesign project). This revision involves a standardization of concepts and methods with other business surveys, use of standard source for frame data (CFDB) and the selection of a larger sample.
 - 5. Total net monthly sales and receipts shown are gross sales less returns and allowances excluding any sales taxes, and the value of inventories include goods owned or on consignment to other firms held at cost at the end of the month. Goods of other firms held by respondents on consignment are not included. Estimates for whotesale merchants of petroleum products (SIC 608) and grain (SIC 602 (part of)) are not included here. Also, estimates for agents and brokers the other segment of Wholesale Trade are excluded.
 - 6. The values of sales and stocks are unadjusted for price changes, number of business days in the respective month, or for seasonal variations in business activity. The ratios of stocks to sales are obtained by dividing the aggregate value of stock estimates at month end for each industry group by the aggregate value of sales during the month.

TRANSPORT CANADA

Transport Canada Databases	Contact Name(s) and Phone Number(s)	Page
BIRD STRIKE DATA	Mr. Robert O'Brien (613) 990-1402	224
CANADIAN COAST GUARD POLLUTION INCIDENT REPORTING SYSTEM	Mr. Tom Morris (613) 991-3170 Mr. Tom Fleck (613) 991-3166	224
DANGEROUS GOODS ACCIDENT INFORMATION SYSTEM (DGAIS)	Mr. Jonathan Rose (613) 990-1142 Mr. Donald Learning (613) 998-5265	225
ENVIRONMENTAL ASSESSMENT AND REVIEW PROCESS	Mr. Robert O'Brien (613) 990-1402	225
ENVIRONMENTAL SCREENING SYSTEM	Mr. Alec Simpson (613) 990-0512 Ms. Harriet Nichols (613) 990-0515	226
OPERATIONAL INCIDENT REPORTING SYSTEM (OIRS)	Mr. Dale Lahey (613) 990-3718	226
POTENTIAL POLLUTANTS MONITORING SYSTEM	Mr. Garry Tulipan (613) 991-6479 Mr. Jean-Pierre Roy (613) 998-1881 Mr. Brune Jacques (613) 991-6481	227
VEHICLE FUEL ECONOMY AND EMISSIONS SYSTEMS	Mr. Gary Murray (613) 998-2570	227

Transport Canada

	Bird Strike Data	Canadian Coast Guard Pollution Incident Reporting System
1.	Datafile Name(s) BIRD SAS 77 through (yearly) to BIRD SAS 88.	1. Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Inventory of all bird strikes to Canadian aircraft from 1977 to 1988 (yearly databases).	 Summary Description of Contents Inventory of pollution incidents from ships investigated by Canadian Coast Guard (CCG) Pollution Prevention officers.
26.	Purpose of the Database To produce annual reports which support the Airport Wildlife Management Program.	2b. Purpose of the Database To produce annual reports concerning incidents, support prosecution of offenders and to analyze causes of incidents.
За.	Name and Address of Responsible Organization Environmental Services, Airports Group, Transport Canada, Tower "C", 19th Floor, Ottawa, Ontario, K1A 0N8.	3a. Name and Address of Responsible Organization Pollution Prevention, Ship Safety Branch, Canadian Coast Guard, 11th floor, Canada Bldg., Minto Place, 344 Slater St.,
3b.	Centact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Robert O'Brien (613) 990-1402 FAX. (613) 957-4260	Ottawa, Ontano, KTA UN7. 3b. Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s)
Зс	Access Mechanisms Through the responsible organization.	mi. Tom Fleck (013) 991-3 100
4a.	Variables Included (summarized if extensive)	Access we charactering inrough the responsible organization.
	- operator, date and time	4a. Variables included (summarized if extensive)
	andran manufacturerrype	- name of ship involved in the incident
	- engine make and model	 ship's country of registry
	 aerodrome/sky condition, runway used/precipitation, location/bird species 	- date of incident
	 height of strike, speed of aircraft, number of birds seen, size of bird 	- classification of pollutant (i.e. oil, garbage, sewage, pollutant substance, air pollution)
	- phase of flight	 type of pollutant (type of oil, etc.), quantity of pollutant
	 aircraft parts struck/damaged, effects on aircraft, damage, injuries 	 location (general area), reporting office of CCG
	 pilot warned, damage costs, comments 	- ship type (tanker, fishing vessel, etc.)
		- main cause (tank overflow, collision, grounding, etc.)
4b.	Geographic Coverage All airports that have Canadian aircraft flying into them (both	- was the incident spotted during aerial surveillance
	civilian and military).	- was evidence forwarded to a foreign administration for possible prosecution in a
		foreign court
4c	Data Acquisition Method(s) Pilot Bird Strike Reports: DND Bird Strike Reports: Transport	- were charges laid
	Canada Bird Strike Reports Airline Bird Strike Reports	 was the accused found quilty
		- date of senteocing
4d	Geographic Unit(a) of Measurement Individual bird strike data Incident details	- amount of fine
		- remarks
40.	Period of Record 1977 to 1988.	
4f.	Update Frequency Yearly	4b Geographic Coverage All Canadian internal waters, territorial seas, fishing zones and Arctic shipping safety control zones. On occasion reports of incidents beyond these waters are received.
49	Database Hardware/Software Configuration Statistical Analysis Software (SAS).	
4h.	Output Format(s) (tables, maps, etc.) Annual summaries graphs and various reports.	 Data Acquisition Method(a) CCG Pollution Prevention officers in field offices report to headquarters. Department of Defence surveillance reports are forwarded through regional CCG offices.
5.	Restrictions and Conditions Some information may be restricted.	
6	Price Information None	40. Geographic Unit(s) of Measurement individual spills recorded by general area
		4e Period of Record 1979 - present.
1.	Corresponding Printed Sources Annual Bird Strike Reports published.	4f Update Frequency Monthly.
8.	Languages English and French.	
g.	User Aids Available None	4g. Database Hardware/Software Configuration AT type microcomputer using DBASE III software.
10.	Keywords Aircraft; Airports; Aviation; Bird strikes; Transportation.	4h. Output Format(s) (tables, maps, etc.) Annual summaries and various reports.
11.	Additional Information This database is also used to supplement the following:	5. Restrictions and Conditions Some information may be restricted.
	 Airport Wildle Management Buildins. National Workshop - Airport Bird and Manual Control. 	6. Price Information None.
		7. Corresponding Printed Sources No periodic publications.
		8. Languages The database is in English.
		9. User Aida Available None
		10 Kayworde Environmental prospertitions Marine: Pallition: Shine: Saille
		to regreed a characteristic prosecutors, manne, Poliution, Ships; Spills.
		 Additional Information Copies of incident reports are forwarded to Environment Canada for inclusion in the National Analysis of Trends in Emergencies Systems (NATES). For the 10-year period from 1979 to 1988 just over 1,100 incidents were reported. Incidents include only those where the suspected source is a ship and where jurisdiction falls under the Canada Shipping Act or the Arctic Waters Pollution Prevention Act.

	Dangerous Goods Accident Information System (DGAIS)		Environmental Assessment and Review Process
1.	Datafile Name(s) Not applicable.	1.	Datafile Name(s) EARP
2a	Summary Description of Contents Dangerous goods accidents reported under Section IX of the Transportation Dangerous Goods Regulations.	2a.	Summary Description of Contents Environmental screening decisions for all Airports Group Projects
26	Purpose of the Database To catalogue accidents, products involved, and accident particulars in support of risk assessment and regulatory amendments.	26	Purpose of the Database To provide environmental assessment information to FEARO on a quarterly basis.
3a.	Name and Address of Responsible Organization Transport Dangerous Goods Directorate, 14th Floor, Canada Building, Minto Place, 344 Slater Street, Ottawa, Ontario, K14,0N5	За.	Name and Address of Responsible Organization Environmental Services, Airports Group, Transport Canada, Tower "C", 19th Floor, Ottawa, Ontario, K1A 0N8.
3b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Mr. Jonathan Rose (613) 990-1142 Mr. Donald Learning (613) 998-5265	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Robert O'Brien (613) 990-1402 FAX: (613) 957-4260
	FAX: (613) 993-5925	Зc.	Access Mechanisms Through the responsible organization
3с.	Access Mechanisma Through the responsible organization.	4a	Variables Included (summarized if extensive) record number, project number, entry date
4a.	Variables Included (summarized if extensive) - accident description including date, location, time of day, amount of product released, mode, and initiating event		 region/screening date, province/project completed, location/messages airport fiscal year
	commodity description including shipping name, UN number, amount shipped, packaging	177	 project description, screening decision, screening number
	- brief narrative describing accident in plain text	45.	Geographic Coverage All Canadian airports federally owned and operated by Transport Canada
4b.	Geographic Coverage Canada.	40	Data Acquisition Method(a) Regional and Airport summaries sent to TC-HQ on a
4c	Data Acquisition Method(s) Reports filed by the employer of the person having charge, management or control of the dangerous goods at the time of the accident.		quarterly basis by Environmental Officers.
4d.	Geographic Unit(s) of Measurement Standard geographic codes.	4d.	Geographic Unit(s) of Measurement Individual screening summaries.
40	Period of Record 1985 - present	4e.	Period of Record 1989 to present.
41	Hodate Frequency Daily as new reports are received	4f.	Upciate Frequency Every quarter.
4	Potence Hardware Potence Configuration Outs and a set 1014 and 121	4g.	Database Hardware/Software Configuration DBASE III+.
+y	microcomputer using DBASE III+ software.	4h.	Output Format(s) (tables, maps, etc.) Quarterly summaries sent to FEARO.
4h.	Output Format(s) (tables, maps, etc.) Tables, charts, or on diskette.	5.	Restrictions and Conditions Some information may be restricted.
5.	Restrictions and Conditions Company name and address information is protected as confidential. No restrictions as to accident particulars	6.	Price Information None.
6	Price information No charge	7.	Corresponding Printed Sources None.
7	Corresponding Printed Sources None	8.	Languages English and French.
		9	User Aids Available None.
0	Languages ine catablase is in English.	10.	Keywords Airports; Aviation; Environmental assessment.
9	User Alde Available A listing of the meaning of oodings and a file structure is provided with data when provided on diskette	11.	Additional information Information used to supplement EARP training and awareness
10	Kerwords Accidents Dangerous goods: Spills: Transportation		program s

11. Additional Information None

Transport Canada

	Environmental Screening System		Operational incident Reporting System (OIRS)
1.	Datafile Name(s) SCREENER	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents SCREENER is a consultative system of environmental information for Canadian airports.	2a.	Summary Description of Contents A database of irregular operations and incidents occurring at Transport Canada related airports in Canada.
2b.	Purpose of the Database The system provides access to the most current expertise on environmental impacts at airports.	26.	Purpose of the Database OIRS is a computerized system which provides the Airports Directorate with the ability to report on, analyze and investigate all irregular operations and incidents at all Transport Canada owned/operated/subsidized
3a.	Name and Address of Responsible Organization Environmental Services, Airports Group, Transport Canada, Tower "C", 19th Floor, Ottawa, Ontario, K1A 0N8.		airports.
ЗЬ.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Alex Simpson (613) 990-1402 Ms. Hamet Nichols (613) 990-0515	3a.	Name and Address of Responsible Organization Airports Group, Transport Canada Tower "C", 20th Floor, Ottawa, Ontario, K1A 0N8.
	FAX: (613) 957-4260	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Dale Lahey (613) 990-3718 FAX. (613) 996-7037
3c.	Access Mechanisms Through the responsible organization.	Зс.	Access Mechanisms Through the Transport Canada Network.
4a.	Variables Included (summarized if extensive)		
	- terrestrial animals, terrestrial habitat	4a.	Variables Included (summarized if extensive)
	- aquatic animals, aquatic habitat		 incident number, site
	- vegetation, soils		- local date and time
	 surface waters, ground waters 		 reportable type, location, details
	- land forms, land use		 type of spill, material, amount
	- atmosphere		- area affected
	- resource harvest, recreation		- on scene commander
	- community facilities		spill source, cause, clean-up
	 employment and economy, people 		A suble Assess A start start the
		46.	Geographic Coverage Canadian airports, regional offices.
4b.	Geographic Coverage Individual airport environment settings recorded.	4c	Data Acquisition Method(s) Data recorded by site/region/headquarters personnel.
4c.	Data Acquisition Method(s) Field information is input into the database by qualified personnel at each site.	4d.	Geographic Unit(s) of Measurement Incident specific.
4d	Geographic Unit(s) of Measurement Site specific.	4e.	Period of Record 1986 to present.
4e.	Period of Record Updated on a continuous basis.	4f.	Update Frequency As incidents occur.
41	Update Frequency As available	4 g.	Database Hardware/Software Configuration Transport Canada Network
49	Database Hardware/Software Configuration AT type microcomputer.	4h.	Output Format(s) (tables, maps, etc.) Generic forms.
4h.	Output Format(s) (tables, maps, etc.) Various screening decisions.	5	Restrictions and Conditions Access given to Transport Canada employees.
5	Restrictions and Conditions Some information may be restricted.	6.	Price Information None.
6.	Price Information None	7.	Corresponding Printed Sources None.
7.	Corresponding Printed Sources No periodic publications.	8.	Languages The database is available in English and French.
8.	Languages The database is available in English.	9.	User Aids Available OIRS User's Manual (Draft).
9.	User Aids Available SCREENER - User's Guide to Version 2, ENVED - User's Guide to Version 3.1. The Knowledge Rese	10.	Keywords Airports; Aviation; Environmental impact; Spills.
		11.	Additional Information None.
10.	Keywords Airports; Aviation; Environmental assessment.	-	
11.	Additional Information Screening decisions for each airport project are rated from 1 to 9. The screening decisions are collected and entered into the EARP data and transferred for publication at Environment Canada.		

	Potential Pollutants Monitoring System	Sec. 2	venicle Fuel Economy and Emissions Systems
	Detafile Name(s) Not applicable.	1.	Datafile Name(s) One file for each motor vehicle model year starting with 1986
a.	Summary Description of Contents Volumes of potential pollutants shipped on Canadian waters, by port and by pre-defined route segments. Available on a monthly and annual basis. Risk indices, by port and pre-defined route segment,	2a.	Summary Description of Contents A database of exhaust emission test results performed by the vehicle manufacturers in support of the fuel economy program
	monthly and annual basis.	2b.	Purpose of the Database To monitor that fuel economy values have been calculated correctly.
b.	Purpose of the Database Management information system, to be used for both quantitative information and policy input	3a.	Name and Address of Responsible Organization Energy and Emissions Engineering Vehicle Safety and Energy Onerstions, Road Safety and Motor Vehicle Regulation
a.	Name and Address of Responsible Organization Statistics and Forecasts Economics, Marine and Surface, Economic Analysis, Transport Canada, Ottawa, Ontario, K1A 0N5.		Fransport Canada, 344 Slater Street, Ottawa, Ontario, K1A 0N5
Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Garry Tulican. (613) 991-6479 Mr. Jean-Pierre Roy. (613) 998-1882	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Gary Murray (613) 998-2570 FAX: (613) 998-4831
	Mr. Brune Jacques (613) 991-6481 FAX: (613) 957-3280	3c.	Access Mechanisms Through the responsible organization.
c.	Access Mechanisms Through the responsible organization.	4a.	V.sriables Included (summarized if extensive) - vehicle attributes including:
a.	Variables Included (summarized if extensive)		engine size and type
	- monthly and annual tonnages of 19 potential pollutant commodities plus total traffic		transmission type
	volumes for 23 ports and 34 pre-defined route segments		vehicle weight
	- shin type and size		• vehicle sales
	rick indiana for 23 mote and 34 are defined route enemate		test encodiantions
	- Tisk modes for 25 pons and 54 pre-denned route segments		 test specifications
	Occurrently Country All Country and I want to be Call and the Call		· Test resums
b.	Geographic Coverage All Canadian coastal waters, the St. Lawrence Seaway and the Great Lakes.	4b.	Geugraphic Coverage Canada only
c.	Data Acquisition Method(s) Commercial marine shipping tapes, Statistics Canada.	4c.	Datu Acquisition Method(s) Reports from industry.
d.	Geographic Unit(s) of Measurement Commodity volumes in tonnes. Also risk indices, zero risk = 0, increases in units of 1; calibration allows for comparison between ports and	4d.	Geo graphic Unit(s) of Measurement None.
	route segments through time.	40	Pericd of Record Motor vehicle model years since 1986.
Θ.	Period of Record 1987 to 1989.	4f.	Update Frequency Several reports each year
l	Update Frequency Annually.	4g.	Detail:ase Hardware/Software Configuration SAS-PC database on a COMF/AQ 386.
9.	Database Hardware/Software Configuration SAS-PC database.	4h.	Output Format(s) (tables, maps, etc.) All outputs are formatted.
h.	Output Format(s) (tables, maps, etc.) Annual and monthly tables.	5.	Restrictions and Conditions Database is confidential.
	Restrictions and Conditions None	6.	Price Information No reports are available.
	Price Information None.	7.	Corresponding Printed Sources None.
	Corresponding Printed Sources No periodic publications, information upon request.	8.	Langue; jes The database is in English.
	Languages At present the database is in English only.	9.	User Aicle Available Data Dictionary, Design Manual for users.
	User Aids Available None	10.	Keywords Emissions; Fuel; Motor vehicles
0.	Keywords Marine; Pollutants; Risk; Ships; Transportation.	11.	Additional Information
1.	Additional Information Additional developmental work to better meet requirements of users to be completed in the coming year.		The catabase was recently moved from the corporate mainframe to a microcompute network. The fivel economy program is voluntary to the motor vehicle manufacturers, therefore
			the database is not complete.



Section 5.2

Bibliographic Environmental Database Holdings, by Federal Government Department

Note: These databases provide references to publications, articles, maps and other databases.



BIBLIOGRAPHIC DATABASES

Bibliographic Databases	Contact Name(s) and Phone Number(s)	Page
AQUAREF	Mr. Ron Gauthier (819) 953-1531	232
AQUATIC TOXICITY: PROTOCOLS AND LITERATURE	Mr. Kenneth Doe (902) 426-3284	232
BIBLIOGRAPHY OF ST. LAWRENCE RIVER RESOURCES AND RESOURCE USE	Mrs. Lucie Olivier (514) 496-2272	233
BIBLIOGRAPHY ON ACID PRECIPITATION	Mr. Jean-Yves Charette (418) 649-6565	233
CANADIAN SOURCES OF ENVIRONMENTAL INFORMATION	Paulette Smith (819) 997-0217	234
CCME INVENTORY OF ENVIRONMENTAL PROTECTION RESEARCH AND DEVELOPMENT PROJECTS	Ms. Anne-Marie Lefebvre (819) 953-7246	234
D-REF (DATA REFERENCE)	Mr. Ron Gauthier (819) 953-1531	235
ENVIROSOURCE	Ms. Edith Dubois (819) 997-1254	235
INDEX OF MINERAL PROCESSING RESEARCH PROJECTS (RESPROC)	Dr. J.E. Kanasy (613) 995-4059	236
INDEX OF MINING TECHNOLOGY RESEARCH PROJECTS (RESMIN)	Dr. J.E. Kanasy (613) 995-4059	236
INTERNATIONAL ENERGY AGENCY - COAL (IEA COAL)	Dr. J.E. Kanasy (613) 995-4059	237
INTERNATIONAL ENERGY AGENCY COAL RESEARCH PROJECTS	Dr. J.E. Kanasy (613) 995-4059	237
INTERNATIONAL ENERGY AGENCY ENERGY TECHNOLOGY DATA	Dr. J.E. Kanasy (613) 995-4059	238
MINERAL PROCESSING ABSTRACTS (MINPROC)	Dr. J.E. Kanasy (613) 995-4059	238
MINING TECHNOLOGY ABSTRACTS (MINTEC)	Dr. J.E. Kanasy (613) 995-4059	239
OCEAN MINING CITATION RETRIEVAL SYSTEM	Ms. Helen Joseph (613) 992-3058	239
PARC (NATIONAL PARKS AND NATIONAL HISTORIC SITES IN QUEBEC)	Mrs. Hélène D'Amours (418) 648-7380	240
PESTICIDE RESIDUES ON PLANTS	Mr. Alain Baril (819) 997-6131	240
REMOTE SENSING ON-LINE RETRIEVAL SYSTEM (RESORS)	Mr. Louis Marcotte (613) 943-8833	241
SATELLITE IMAGERY CATALOGUE	Ms. Jean Game (613) 952-2717	241
SUSTAINABLE AGRICULTURE TASK FORCE DATABASE	Mrs. Judy Nicholson (613) 995-7228	242
WILDLIFE TOXICOLOGY BIBLIOGRAPHIC DATABASE	Mr. David Ward (819) 953-9508	242

-			
	AQUAREF		Aquatic Toxicity: Protocols and Literature
1_	Datafile Name(s) Not applicable	1. 0	Datafile Name(s) Not applicable
2a.	Summary Description of Contents A bibliographic database referencing English and French reports, studies, conference proceedings, papers and journals on Canadian water resources and other related environmental topics. There is some international coverage depending on program scope	2a. \$ fi 2b. F	Summary Description of Contents. Test protocols and aquatic toxicity test methods for ish, invertebrates, microorganisms and literature on substance toxicity. Purpose of the Database. To provide information on aquatic toxicity data for use in
2b.	Purpose of the Database To provide access to references pertaining to water resources literature produced by the Inland Waters Directorate, Environment Canada, and other anencies involved in water research	Ba. N	collution control programs in the Atlantic region. Name and Address of Responsible Organization Aquatic Toxicology Section, aboratory Dynam Conservation and Protection, Atlantic Region, Environment Conside
3a.	Name and Address of Responsible Organization WATDOC, Inland Waters Directorate,	1	Sth Floor, 45 Alderney Drive, Dartmouth, Nova Scotia, B2Y 2N6.
	Conservation and Protection, Environment Canada, 9th Floor, 351 St. Joseph Blvd , Hull, Québec, K1A 0H3.	3b. C	Contect Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Kenneth Doe (902) 426-3284 FAX: (902) 426-3574
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ron Gauthier (819) 953-1531 FAX: (819) 997-8701	3c. /	Access Mechanisms Through the responsible organization.
3c.	Access Mechanisms Searchable online through CAN/OLE, a retrieval system offered by the Canada Institute for Scientific and Technical Information (CISTI), available via the	4a. \	/ariables included (summarized if extensive) information sources referenced by: chemical; effects (e.g. behavioral, bioaccumulation); species (e.g. trout, algae, Daphnia);
	Datapac communications network.	4b. (Geographic Coverage International
4a.	Variables Included (summarized if extensive)	4c. [Data Acquisition Method(s) Journal and magazine searches and interagency contact.
	- sedimentation and erosion	4d. (Seographic Unit(s) of Measurement Not applicable.
	- hydrometeorology	4e F	Period of Record Historical - present.
	agricultural hydrology forest hydrology	4f. (Update Frequency Ongoing.
	satellite hydrology ice, snow and glaciers	4g [Database Hardware/Software Configuration Paper file.
	- pollution - habitats	4b (Dutnut Formatic) (tables mans atc.) Articles
	- environmental impact assessment	E E	Participan and Conditions Name
4b	Geographic Coverage National, more than 69,000 references.	5. F	
4c.	Data Acquisition Method(s) Reports, studies, conference proceedings and papers are	6 1	rice information No charge.
	indexed. Over 60 Canadian and foreign journals are regularly monitored.	7 (Corresponding Printed Sources None
4d	Geographic Unit(s) of Measurement Not applicable.	8. L	Languages Articles in language of author
40	Period of Record 1970 - present	9. (Jeer Aids Available None.
41	Update Frequency Bi-monthly.	10.	Keywords: Aquatic ecosystems; Fish; Invertebrates; New Brunswick; Nova Scotia; Plants; Prince Edward Island: Toxic effects; Toxicology; Toxics; Water pollution.
49	Database Hardware/Software Configuration Mainframe computer, micro IBM XT; CAN/OLE II (CISTI), DATAPAC, INMAGIC software.	11.	Additional Information In addition to this literature database, the Division also has a
4h	Output Format(s) (tables, maps, etc.) Search results can be viewed online or printed offline at CISTI.		raniery of toxicity test data generated by the regional factoratory.
5	Restrictions and Conditions None.		
e	Price Information CAN/OLE: \$40 per online connect hour.		
7	Corresponding Printed Sources WATDOC produces bibliographies (e.g. Hydrological Events Bibliography), reports (e.g. Canada Water Act Reports) and Water Quality Branch publications from subsets of the AQUAREF database; the printed sources are produced on the basis of the needs of the contributing organizations.		
8	Languages Bibliographic references to documents published in English and/or French.		
9.	User Aids Available WATDOC newsletter (new database developments and user information). CAN/OLE user manual (see 11).		
10.	Keywords Drinking water; Environmental impact; Freshwater; Groundwater; Hydrology, Hydrometeorology; Sedimentation; Snow; Ice; Wastewater treatment; Water; Water quality; Water resources.		
11.	Additional Information 1. Any ASCII type terminal which can communicate in half-duplex at a speed of 10, 30 or 120 characters per second is compatible with CAN/OLE. Searches that generate blocks outputs of offenences on the second se		

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	Resources and Resource Use		Bibliography on Acid Precipitation
1.	Datafile Name(s) Not applicable	1	Datafile Name(s) None.
28.	Summary Description of Contents Bibliographic references on the resources of the St. Lawrence River and their use.	2a.	Summary Description of Contents Collection of 1700 documents covering acid precipitation on an international level.
2b.	Purpose of the Database Identify studies conducted on the St. Lawrence River and the Saguenay River.	2b.	Purpose of the Database Collection of documents organized by subject matter (32 categories) and by author).
3a.	Name and Address of Responsible Organization St. Lawrence Centre, Technological Development Directorate, Conservation and Protection, Environment Canada, Suite 400, 105 McGill Road, Montréal, Québec, H2Y 2E7.	3a.	Name and Address of Responsible Organization Inland Waters Directorate, Conservation and Protection, Québec Region, Environment Canada, 8th Floor, 1141 Route de l'Église, P.O. Box 10100, Ste-Foy, Québec, G1V 4H5.
3b.	Contact Person(s), Address (If different from 3a), Telephone and Fax Number(s) Mrs. Lucie Olivier (514) 496-2272 FAX: (514) 283-9451	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Jean-Yves Charette (418) 649-6565 FAX: (418) 648-4613
30.	Access Mechanisms Through the organization responsible.	Зс.	Access Mechanisms Through the organization responsible.
4a .	Verlables Included (summarized if extensive) Bibliographic references.	4a.	Variables Included (summarized if extensive) Author, title, source, subject matter (32 categories)
4b.	Geographic Coverage St. Lawrence River and Saguenay River.	Ab	Canaranhie Cavarana World.wide
40.	Data Acquisition Method(s) Bibliographic research and acquisitions.	40.	
4d.	Geographic Unit(s) of Measurement Not applicable.	40	Dana Acquistanti menunuja) Dinnograpilio.
48.	Period of Record 1975 to date.	40	Gisographic Unit(s) of Measurement None.
41.	Update Frequency Yearly.	40.	Period of Record 1970 - to date.
4g.	Database Hardware/Software Configuration Microcomputer PC compatible, DBASE IV	41.	Update Frequency Irregular.
	software	4g.	Database Hardware/Software Configuration Microcomputer IBM-PC compatible, KNJWLEDGEMAN WORDPERFECT
4h.	Output format(a) (tables, maps, etc.) Bibliographic references.	45	Output formation tables many de l. Taul
5.	Restrictions and Conditions None.		oblocitorinanda/ (anonos, impos ou./ Toxt.
6.	Price Information None.	5.	Hestrictions and Conditions Consultation of documents on site only.
7.	Corresponding Printed Sources None.	6.	Price Information Consultation on site without charge. Free listing on demand.
8.	Languages Documents may be in French or in English.	7.	Comseponding Printed Sources ACIDOC Base.
a	liear Aide Available Liears Guide	8.	Lang.ages Original language of the document. System searches in French or English.
		9.	User Aids Available Catalogue
10.	neywords Dredging, industry, Hecreational areas; Sediments; St. Lawrence Hiver, Water pollution; Water quality; Wetland ecosystems; Wetlands, Wildlife.	t0.	Keyw rds Acid precipitation; Air pollution; Environmentally sensitive areas; Precipitation
11.	Additional Information Direct access to the base is being developed.	t1.	Additional Information None.

Canadian Sources of Environmental Information		11	CCME Inventory of Environmental Protection Research and Development Projects		
1.	Datafile Name(s) Not applicable	1	Datafile Name(s) Not applicable		
2a.	Summary Description of Contents Database of names, addresses and descriptions of Canadian experts on environmental issues; searchable at four levels.	2a.	Summary Description of Contents Information on over 1,200 ongoing and completed environmental research and development projects conducted by federal and provincial governments, universities and some industries.		
26.	Purpose of the Database To provide an up-to-date directory of specialists active in various fields of the environmental sciences, to provide the Canadian contribution to INFOTERRA, the United Nations Environment Program and to promote the exchange of environmental information	2b.	Purpose of the Database To provide a reference for researchers to avoid project duplication, facilitate technical information transfer and provide a basis for the development of joint projects.		
3a.	Name and Address of Responsible Organization Information Holdings Management Branch, Finance and Administration Service, Environment Canada, 3rd Floor, 351 St Joseph Blvd., Hull, Québec, K1A 0H3.	3a.	Name and Address of Responsible Organization Technology Development Branch, Conservation and Protection, Environment Canada, 3439 River Road, Ottawa, Ontario, K1A 0H3.		
36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Paulette Smith (819) 997-0217 FAX: (819) 953-1099	3b.	Contact Person(s), Address (if different from 3s), Telephone and FAX Number(s) Ms. Anne-Marie Lefebvre (819) 953-7246 FAX: (819) 953-9029		
3c.	Access Mechanisms Through the responsible organization.	3c.	Access Mechanisms Through the contact person, also via contacts in Ontario and Québec ministries of environment.		
4a.	Variables Included (summarized if extensive) - name - address - phone and FAX number - expertise code - update and initial record date	4a	Variables Included (summarized if extensive) - project title - project objectives - funding sources, amount - responsible agency, individual(s)		
4b.	Geographic Coverage Canada.	4b.	Geographic Coverage National; over 1,200 research projects are identified and described in the database		
4c.	Data Acquisition Method(s) Periodically (every year or two) questionnaires are sent to known authorities and previous contributors who are also asked for names of other potential contributors.	4c.	Data Acquisition Method(s) Survey forms.		
4d.	Geographic Unit(s) of Measurement Not applicable.	4d.	Geographic Unit(s) of Measurement Not applicable.		
40.	Period of Record 1988 - present.	40	Period of Record 1987 - 1990.		
4 f.	Update Frequency Biennial; more frequent updates are being considered.	41.	Update Frequency Annually.		
4g.	Database Hardware/Software Configuration IBM compatible microcomputer with ORACLE	49.	Database Hardware/Software Configuration COMPAQ 286 microcomputer, MICRO-QUESTEL software.		
4h.	Output Format(s) (lables, maps, etc.) Text.	4h.	Output Format(a) (tables, maps, etc.) Information available on diskettes or paper copy.		
5.	Restrictions and Conditions None.	5.	Restrictions and Conditions None.		
6.	Price Information Publication cost is \$50	6.	Price Information Cost recovery policy to be implemented.		
7.	Corresponding Printed Sources Publication: Canadian Sources of Environmental Information	7.	Corresponding Printed Sources National Inventory of Environmental Research and Development Projects, 1990.		
8	Languages Records are in the language of the expert	8.	Languages Projects entered in language of submission; report is bilingual.		
9.	User Aids Available On-screen menus.	9.	User Aids Available None.		
10.	Keywords Environmental experts; Research.	10.	Neywords Hesearch.		
11.	Additional Information On line access through the Departmental Office Technology System (DOTS) is being considered.	11.	Additional Information The database is slated for redevelopment. Databases in original report that are left out of this inventory because their information is duplicated in another national database.		

		-	
	D-REF (Data Reference)		ENVIROSOURCE
1_	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable
2a	Summary Description of Contents References to data holdings (readily accessible) pertaining to the occurrence and condition of freshwater; land-based sectors water use and potential impact on water, and related data of use to water resource engineers, scientists, and managers	2a	Summary Description of Contents Descriptions of Environment Canada information holdings (information collections and databases) in all media and formats, procedures to access holdings, names and addresses of departmental contacts, accountability, subject indexes, etc.
26.	Purpose of the Database To reference significant sources of water and related data.	2b.	Purpose of the Database To identify and facilitate the retrieval of information on a
3a.	Name and Address of Responsible Organization Water Planning and Management Branch, Inland Waters Directorate, Conservation and Protection, Environment Canada, 9th Floor, 351 St. Joseph Blvd, Hull, Québec, K1A 0H3.		awareness, environmental indicators development, and environmental impact assessment. To facilitate cost-effective and coordinated management of Environment Canada's information holdings.
Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Ron Gauthier (819) 953-1531 FAX. (819) 997-8701	3a.	Name and Address of Responsible Organization Information Holdings Management Branch, Finance and Administration Service, Environment Canada, 3rd Floor, 351 St. Joseph Blvd., Hull, Québec, K1A 0H3.
3c.	Access Mechaniams D-REF will eventually be mounted on CAN/OLE, a retrieval system offered by the Canada Institute for Scientific and Technical Information (CISTI), available via the DATAPAC communications network.	3b.	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Ms. Edith Dubois (819) 997-1254 FAX. (819) 953-1099
4a.	Variables Included (summarized if extensive) For each database	3c.	Access Mechanisms Through the responsible organization.
	 data category (physiographic, biological, groundwater, water quality, water use, stream flow, water level, etc.) 	4a.	Veriables Included (summarized if extensive) - database/collection title
	language, keywords		- media
	publications derived from, or useful in, analyzing data		· type/size
	purpose or objectives		description
	 parameters measured, period of record, sampling frequency, update frequency 		- subjects
	- geographical area where data are collected, latitude, longitude		- period covered
	- hardware/software, output information		- language
	reference source code		status
4b	Geographic Coverage All provinces and territories.		 access departmental contact (name, address, phone number)
4c.	Data Acquisition Method(s) Database questionnaires and personal interviews within the	4b.	Geographic Coverage Canada
	department, as well as with other governmental, academic and private organizations dealing with water resources	4c.	Data Acquisition Method(s) Questionnaires to departmental staff, followed by telephone
4d.	Geographic Unit(s) of Measurement Varies among the data collections.		call: for vertication
40	Period of Record 1850's - present	4d.	Geographic Unit(s) of Measurement Not applicable.
41	Update Frequency Irregular	4e.	Period of Record 1991 - present.
40	Database Herdware/Software Configuration Micro IBM XT (NMAGIC software	4 f.	Update Frequency Database- ongoing, published version- biennially
4h	Output Format(s) (tables, maps, etc.) Text	4 g.	Database Hardware/Software Configuration PC's and DEC work stations with ORACLE on the Departmental Office Technology System (DOTS)
5	Restrictions and Conditions None	4h	Outmut Format(a) (tables mans atc.) Tavt lists
6	Price information. Not yet determined	5	Restrictions and Conditions Database is available to Environment Canada employees
7	Corresponding Printed Sources Proposed inventory/bibliography		online on DOTS. There is no restriction on access to published versions while copies last.
R	Languages Reference descriptions are entered in the language in which the input form	6.	Price information Not applicable.
	was completed	7.	Corresponding Printed Sources Envirosource Reference Directory to Information Holdings (First Edition September, 1991).
9	User Atds Available D-REF Guidelines and Input Specifications WATDOC Newsletter (new database developments, user information)	8.	Languages Database is in English and French.
10.	Keywords Hydrology, Hydrometeorology; Freshwater; Water; Water pollution; Water quality, Water resources.	9.	User Akts Available None at present.
11.	Additional Information Publications in 7 and 9 are available from the responsible	10	Keywords Information; Inventory.
	organization	11	Additional Information None.

	Index of Mineral Processing Research Projects (RESPROC)		Index of Mining Technology Research Projects (RESMIN)
1.	Datafile Name(s) RESPROC	1	Datafile Name(s) RESMIN
2a.	Summary Description of Contents Directory of research projects under way in Canada dealing with mineral processing.	2a.	Summary Description of Contents Directory of research projects underway in Canada dealing with mining technology.
26	Purpose of the Database To meet information needs of researchers in both private and public sectors concerned with mineral processing.	2b	Purpose of the Database To meet information needs of researchers in both private and public sectors concerned with mining.
3a.	Name and Address of Responsible Organization Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy Mines and Resources Canada, 555 Booth Street, Ottawa, Ontario , K1A 0G1.	3a.	Name and Address of Responsible Organization Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 555 Booth Street, Ottawa, Ontario, K1A 0G1.
3Ь.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J.E. Kanasy, Director, (613) 995-4059 FAX. (613) 952-2587	36.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J.E. Kanasy, Director, (613) 995-4059 FAX: (613) 952-2587
3c.	Access Mechaniems Through the contact person or on-line through QL Search Systems Inc., Ottawa	3c.	Access Mechanisms Through the contact person or through QL Search Systems, Inc., Ottawa.
4a.	 Variables Included (summarized if extensive) topics include. mill administration, crushing, grinding, sizing, flotation, magnetic separation, gravity and heavy media separation, other separation, leaching, material handling; process control, tailing and waste management each project title; contact (name, address) 	4a.	Variables Included (summarized if extensive) - topics include: drilling and blasting, ground control; materials handling, equipment; mine leaching, backfilling; industrial engineering, mine design, health and safety; communications, surface environment; tailings - each project: title, organization, principal contact (name, address)
4b.	Geographic Coverage Canada.	4b.	Geographic Coverage Canada
4c.	Data Acquisition Method(s) Annual surveys of research institutions.	4c.	Data Acquisition Method(s) Annual survey of researchers and institutions.
4d.	Geographic Unit(s) of Measurement Individual projects	4d.	Geographic Unit(s) of Measurement Not applicable.
6e,	Period of Record 1989 - present.	4e.	Period of Record 1989 - present.
4f.	Update Frequency Annually	41	Update Frequency Annually
4g.	Database Hardware/Software Configuration On-line search capability is provided through QL Search Systems	4g.	Database Hardware/Software Configuration Available for on-line searching by end-users on the QL Search Systems computer.
4h.	Output Format(s) (tables, maps, etc.) Title of project, name, address of person to be	4h.	Output Format(s) (tables, maps, etc.) Text
6	Bestistians and Candidana Mass	5	Restrictions and Conditions None.
6.	Price Information \$30.00/search by CANMET/LDSD staff. Applicable rates from QL	6	Price Information \$30.00/search by CANMET/LDSD staff. Applicable rates from QL Search Systems
7.	Corresponding Printed Sources Index of Mineral Processing Projects (annual).	7	Corresponding Printed Sources Index of Mining Technology Research Projects (annual).
8.	Languages English and French for access protocol; information itself as supplied by original source	8.	Languages English and French for access protocol; for project information, as provided by original source.
9.	User Aids Available None.	9.	User Aids Available None
10.	Keywords Industry, Minerals; Minerals industry; Non-renewable resources.	10.	Keywords Industry; Minerals; Mining; Mining industry, Non-renewable resources.
11.	Additional Information Contact the individual whose name appears in 3b.	11.	Additional Information CANMET/LDSD can provide information only about the database as such; for information about the projects themselves it is necessary to contact the individual whose name appears in the entry.

	International Energy Agency - Coal		International Energy Agency
	(IEA COAL)		Coal Research Projects Database
1_	Datafile Name(a) COAL	1	Datafile Name(s) COALPRO
2a.	Summary Description of Contents A bibliographic database indexing world literature dealing with all aspects of coal science and technology.	2a	Summary Description of Contents An on-line directory of international coal research projects undertaken by member nations of the International Energy Agency.
2b.	Purpose of the Database To meet information needs of member countries for all aspects of coal production and use.	26.	Purpose of the Database. To meet information needs of member countries of the International Energy Agency.
3a.	Name and Address of Responsible Organization IEA Coal Research, Gemini House, 10-18 Putney Hill, London, England, SW15 6AA	За.	Name and Address of Responsible Organization International Energy Agency Coal Research, Gemini House, 10-18 Putney Hill, London, England, SW15 6AA
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Canadian Operating Agent, Dr. J.E. Kanasy, Director, Library and Documentation Services Designs, Canada Centra for Mineral and Energy Technology, Energy, Mines and Besurces	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Canadian Operation Arrent Dr. J.E. Kanasy, Director, Library and Documentation Services
	Canada, 562 Booth Street, Ottawa, Ontario K1A 0G1 (613) 995-4059 FAX: (613) 952-2587		Division, Canada Centre for Mineral and Energy Technology, Energy Mines and Resources Canada, 562 Booth Street, Ottawa, Ontario K1A 0G1 (613) 995-4059 FAX: (613) 952-2587
3c.	Access Mechaniams Through responsible organization, CAN/OLE Systems (National Research Council - Canadian Institute for Scientific and Technical Information, Ottawa, or QL Search Systems Inc., Ottawa.	3c.	Access Mechanisms Through the responsible organization or through CAN/OLE Systems (National Resources Council, Canadian Institute for Scientific and
4a.	Variables included (summarized if extensive)		echnological Information, Ottawa).
	topics include: economics and management reserves and exploration, mining coal preparation transport and handling	4a.	Variables included (summarized if extensive) - topics include economics of coal; coal reserves and exploration; coal mining (including health & safety); coal preparation, transportation and handling; coal processing and conversion; properties of coal; coal combustion; coal products; waste management and environment
	coal properties processing and conversion, combustion		 tor each project: title; description; principal researcher; funding, sponsor
	waste management, environment, products occupational health and safety	46.	Grographic Coverage International member nations of the International Energy Agency.
4b.	Geographic Coverage Worldwide.	4c.	Data Acquisition Method(s) Operating agents of member nations supply information by surveying researchers in government, industrial and university laboratories.
4c	Data Acquisition Method(s) National iterature is scanned by representatives of member countries, non-member country literature is scanned by operating agents.	4d.	Geographic Unit(s) of Measurement Country.
4d.	Geographic Unit(s) of Measurement Country	40	Period of Record 1987 - present.
40.	Period of Record 1976 - present.	4f	Update Frequency Annually.
41.	Update Frequency Monthly.	49	Database Hardware/Software Configuration Designed for on-line searching on CAN/OLE System
4g.	Database Hardware/Software Configuration On-line searchable on NRC/CISTI'S CAN/OLE System, also available on QL Search Systems.	4h.	Output Formet(s) (tables, maps, etc.) Text.
4h	Output Format(a) (tables, maps, etc.) Bibliographic citations with abstracts; full text documents available from CANMET/LDSD, or as stated.	5.	Restrictions and Conditions Open to residents of member countries only.
5.	Restrictions and Conditions Restricted to residents of member countries.	6	Price Information Rates as established by NRC/CISTI. \$30.00 per search conducted by CANMET/LDSD staff.
6	Price information Rates as determined by QL and CAN/OLE. \$30.00/search by CANMET/LDSD personnel.	7.	Corresponding Printed Sources Coal Research Projects (an annual directory).
7.	Corresponding Printed Sources Coal Abstracts (annual).	8.	Languages Database is in English.
8	Languages The database is in English	9.	User Aids Available CAN/OLE User Manual.
9.	User Alds Available Coal Thesaurus; CAN/OLE User Manual.	ŧ0.	Keywords Coal, Energy; Extraction; International, Minerals; Mining, Non-renewable resources, Technology.
10.	Keywords Coal; Coal technology; Energy; Extraction; Hydrocarbons; International; Non- renewable resources.	11.	Additional Information None.
11.	Additional Information None.		

	International Energy Agency Energy Technology Data Exchange		Mineral Processing Abstracts (MINPROC)
1	Datafile Name(s) ENERGY (EDB file 103).	1.	Datafile Name(s) MNP
2a	Summary Description of Contents Bibliographic database covering energy technology literature published worldwide.	2a.	Summary Description of Contents A bibliographic database of periodical literature concerned with mineral processing.
2b.	Purpose of the Database To meet the needs of researchers in the field of energy research and development.	2b.	Purpose of the Database. To serve the research needs of Canadian scientists and engineers working in mineral processing in both the public and private sectors
3a.	Name and Address of Responsible Organization ETDE Operating Agent, Office of Scientific & Technical Information, U.S. Department of Energy, P.O. Box 62, Oak Ridge, Tennessee, U.S.A., 37831	3a.	Name and Address of Responsible Organization Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and Resources Canada, 555 Booth Street, Ottawa, Ontano, K1A 0G1.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Canadian Representative, IEA, ETDE, Dr. J.E. Kanasy, Director, Library and Documentation Services Division, Energy, Mines and Resources Canada, 562 Booth	Зb.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Dr. J E. Kanasy, Director, (613) 995-4059 FAX: (613) 952-2587
	Street, Ottawa, Ontario K1A 0G1 (613) 995-4059 FAX: (613) 952-2587	3c.	Access Mechanisms File MNP available on QL Search Systems Ltd. (Ottawa) or through CANMET/LDSD.
3c.	Access Mechanisms Through the responsible organization or DIALOG Information Systems, Inc., Palo Alto, California 94304 U.S.A. (800-3-DIALOG)	4a.	Variables Included (summarized if extensive) - topics include: physical separation processes; hydrometallurgical extraction; purfication and recovery of metals; pyrometallurgical processes, waste disposal,
4a.	 Variables Included (summarized if extensive) topics include: fossil fuels; nuclear energy; fusion energy; renewable energy; energy storage and conversion; advanced energy systems, environment; energy policy abstrads and bibliographic citations 	4b.	environment, safety; plants and equipment; reviews, forecasts, symposia Geographic Coverage Canadian and foreign material of interest to the Canadian mineral industry
46.	Geographic Coverage Worldwide.	4c.	Data Acquisition Method(s) Material selected from 150 plus international journals, books,
4c.	Data Acquisition Method(s) Each national representative surveys the national literature and submits a machine readable copy to the operating agent; literature from non-member countries is contributed by the operating agent and by certain of the member countries.	4d.	conterence proceedings, dissertations; patent-literature is also included. Geographic Unit(s) of Measurement Not applicable.
4d.	Geographic Unit(s) of Measurement Country.	40.	Period of Record 1968 - present.
4e.	Period of Record 1987 - present.	41.	Update Frequency Biweekly
41.	Update Frequency Twice a month.	49	Detabase Hardware/Software Configuration Commercially mounted on QL Search Systems Inc. for end-user on-Ine searching.
49.	Database Hardware/Software Configuration On-line searchable on the DIALOG Information Systems computers.	4h.	Output Format(s) (tables, maps, etc.) Bibliographic citations with abstracts.
4h.	Output Format(s) (tables, maps, etc.) Text, bibliographic citations with abstracts.	5.	Restrictions and Conditions None.
5	Restrictions and Conditions Available for on-line searching to residents of member	6.	Price Information QL rates as applicable, \$30.00/ search CANMET/LDSD staff.
	countries only.	7,	Corresponding Printed Sources MINPROC Bulletin (bi-weekly).
6.	Price Information \$33.00/search by CANMET/LDSD staff. Applicable rates from Dialog Information Systems.	8.	Languages English and French titles and keywords, abstracts primarily in English, occasionally in French and English.
7.	Corresponding Printed Sources None.	9.	User Aids Available Mineral processing thesaurus.
8.	Languages Database is in English.	10.	Keywords Industry, Mineral processing, Minerals, Minerals industry; Non-renewable
9.	User Aids Available User aids are made available by DIALOG Information Systems.		resources
10.	Keywords Energy; Hydrocarbons; International; Non-renewable energy; Nuclear energy; Renewable energy; Technology.	13.	Additional Information The full text of each document cited in the database is available from CANMET/LDSD.
11.	Additional Information None.		

	Mining Technology Abstracts (MINTEC)	Ocean Mining Citation Retrieval System
	Datafile Name(s) MNT	1 Datafile Name(s) Not applicable
a.	Summary Description of Contents Abibliographic database of periodical literature concerned with mining engineering.	2a Summary Description of Contents An international bibliographic database covering various aspects of ocean mining
D .	Purpose of the Database To serve research literature needs of Canadian scientists and engineers working in the mining industry, in government departments, and universities.	2b Purpose of the Database To provide information sources on topics related to ocean mining.
	Name and Address of Responsible Organization Library and Documentation Services Division, Canada Centre for Mineral and Energy Technology, Energy, Mines and	3a. Name and Address of Responsible Organization Ocean Mining Division, Mineral Pol Sector, Energy, Mines and Resources Canada, 11th floor, 460 O'Connor Street, Otlaw Ontario, K1A 0E4.
,	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)	3b. Contact Person(s), Address (If different from 3a), Telephone and FAX Number(a) Ms. Helen Joseph (613) 992-3058 FAX (613) 992-5893
	Dr. J.E. Kanasy, Director, (613) 995-4059 FAX. (613) 952-2587	3c. Access Mechanisme Through the responsible organization.
2.	Access mechanisms the MNT available on UL Search Systems Inc. (Ottawa) or through CANMET/LDSD.	4a. Variables Included (summarized if extensive)
	Mariablas Instruded (assessment of astronoises)	- author affiliation
	topics include: plant construction and maintenance: development and production	article source
	methods; ground control; rock breakage (drilling, blasting, etc.); materials handling; working environment and safety mine geology: planning and engineering; waste	keywords
	disposal, environment and reclamation; tunnels and tunnelling; miscellaneous (groundwater control)	4b. t3eographic Coverage International.
		4c. Eata Acquisition Method(s) Literature review.
	Geographic Coverage Canadian and foreign material from worldwide sources but with a Canadian bias.	4d. Geographic Unit(s) of Measurement Individual references (no location details provide
	Data Acquisition Method(s) Material is selected by scanning 160 journals, supplemented	4e. Puriod of Record Database initiated in 1975; articles cover 1950 - present.
	Geographic Initia of Measurement Not applicable	4f. Update Frequency Ongoing
	Period of Record 1968 - present	4g Database Hardware/Software Configuration CYBER mainframe computer with custom software. Conversion to INMAGIC software on a PC is in progress.
	Update Frequency Brweekly.	4n Output Formatis) (tables, maps, etc.) Literature criations
ŀ	Database Hardware/Software Configuration Database is commercially mounted for on-line access with QL Search Systems.	5 Restrictions and Conditions None.
	Output Formatical (tables more ate). Delingraphic situines with obstracts	6. Price information No charge
1.	Cuput Pormanus (unures, maps, etc.) Divilographic citations with avairacts.	7. Corresponding Printed Sources None.
	Restrictions and Conditions None	8. Languages Database is in English
	Price Information Rates established by QL. \$30.00/search by LOSO staff.	9. User Aids Available One-page handout describing database.
	Corresponding Printed Sources MINTEC Bulletin (biweekly).	10 Keyworde International Marine: Mining: Ocean mining
	Languages Access protocols are in English and French; abstracts are primarily in English, less (requently in French and English	11 Additional information
	User Aids Available Thesaurus of mining terms.	 Topics covered include geology, deep sea mining, mining technology, legal aspects, environmental studies.
0.	Keywords Mining industry, Mining technology	 The emphasis on ocean minerals makes this database different from others covering general topics in geology, oceanography
1.	Additional Information Copies of full text documents are available from CANMET/LDSO.	Second and a second state of the second state of the

	PARC		
	(National Parks and National Historic Sites in Quebec)		Pesticide Residues on Plants
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Not applicable.
2a.	Summary Description of Contents Information on National Parks and National Historic Sites in Quebec.	2a.	Summary Description of Contents A bibliographic database and data extracted from the Interature on pesticide residue concentrations on crop and non-crop plants in target spray zones immediately following and at various times after spray.
2b.	Purpose of the Database To organize and make more accessible information used in studies undertaken by the Quebec regional office of the Canadian Parks Service. The studies themselves are also part of the file.	2b.	Purpose of the Database To provide a research database in support of the Canadian Wildlife Service's advisory role in pesticide evaluation and registration.
За.	Name and Address of Responsible Organization Canadian Parks Service, Quebec Region, Environment Canada, 3 Buade Street, P.O. Box 6060, Quebec City, Quebec, G1R 4V7.	3a.	Name and Address of Responsible Organization National Wildlife Research Centre, Canadian Wildlife Service, Environment Canada, 100 Gamelin Blvd., Hull, Québec, K1A 0H3.
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX number(s) Mrs. Hélène D'Amours (418) 648-7380 FAX: (418) 648-4234	3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Alain Baril (819) 997-6131 FAX: (819) 953-6612
3c.	Access Mechanisms Through the organization responsible.	3c.	Access Mechanisms Through the responsible organization.
4a.	Variables included (summarized if extensive) Bibliographic references.	4a.	Variables Included (summarized if extensive)
4b.	Geographic Coverage Province of Quebec.		crop, pesticide
4c.	Data Acquisition Method(s)		application methods, rate, equipment used outry of study
	- acquisitions of documents	4h	Contraction of the second seco
4d.	Geographic Unit(s) of Measurement Not applicable	40	
4 0 .	Period of Record 1976 to date.	4-C.	Unita Acquisition Method(s) Literature search.
4f.	Update Frequency Monthly.	4d.	Geographic Unit(s) of Measurement Country in which study conducted.
4g.	Database Hardware/Software Configuration Microcomputer; EDIBASE software.	40	Period of Record 1970 - 1989.
4h.	Output format(s) (tables, maps, etc.) Bibliographic references.	4f.	Update Frequency Literature continually reviewed and retained, but timing of database update uncertain.
5.	Restrictions and Conditions None.	4g.	Database Hardware/Software Configuration IBM PC with DBXL.
6.	Price Information No charge.	4h	Output Format(s) (tables, maps, etc.) Tables, text.
7.	Corresponding Printed Sources None.	5.	Restrictions and Conditions None.
8.	Languages The system includes documents in French and in English. The system itself operates only in French.	6.	Price Information No charge
9.	User Aids Available None.	7.	Corresponding Printed Sources A final bibliography and summary tables indicating pesticide, crop, application details and residue levels have been printed from the database.
10.	Ksywords National parks; Quebec.	8	Languages The database is in English.
11	Additional Information None	9.	User Aids Available None
		10.	Keywords Agriculture; Biota; Contaminants; Pesticides, Plants; Residues; Toxics.
	and the second	11.	Additional Information None.

	Remote Sensing On-line Retrieval System	- 11	
	(RESORS)	10	Satellite Imagery Catalogue
1.	Datafile Name(s) Not applicable	1.	Datafile Name(s) Oata filed by satellite and location
2a.	Summary Description of Contents A global bibliographic database of documents and slides related to remote sensing and photogrammetry.	2a	Summary Description of Contents An archive listing of images of Canada from LANOSAT, SPOT and MOS 1 satellites.
2b.	Purpose of the Database To gather and document information on remote sensing observations, technology and applications.	26.	Purpose of the Database To provide assistance for access to satellite image data for Canada.
3a.	Name and Address of Responsible Organization Canada Centre for Remote Sensing, Energy, Mines and Resources Canada, 1547 Merivale Road Ottawa, Ontario, K1A 0Y7. The database is maintained by Horler Information Inc. at the same address.	За.	Name and Address of Responsible Organization Canada Centre for Remote Sensing, Energy Mines and Resources Canada, 2464 Sheffield Road, Ottawa, Ontario, K1A CY7
3b.	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. Louis Marcotte. (613) 943-8833 FAX: (613) 996-9843	36	Contact Person(s), Address (If different from 3a), Telephone and FAX Number(s) Ms. Jean Game, Energy, Mines and Resources, 4th Floor, 1547 Merivale Road, Ottawa Ontario, K1A 0Y7. (613) 952-2717 FAX: (613) 952-7353
3с.	Access Mechanisms Through the responsible agency, on-line access is available. Delegated searches on request.	3с.	Access Mechanisms Through the responsible organization; on-line access is available
4a.	Variables Included (summarized if extensive) bibliographic information satellites listing	4a.	Variables Included (summarized if extensive)
	- acronyms organizations		 location (latitude, longitude; satellite indexing system) date sloud cover
	grossary		- data quality
40.	Geographic Coverage Global; 75,000 documents.	4b	Geographic Coverage National
40.	Data Acquisition Method(s) Bibliographic documents, newsletters, requests from publication authors, subscriptions.	4c.	Duta Acquisition Method(s) Satellite records
4d	Geographic Unit(s) of Measurement Documents coded by state, province and country.	4d.	Ge ographic Unit(s) of Measurement Oata from individual images referenced by latitude, longitude and Landsat World Reference System.
40.	Period of Record 1950 - present	40	Period of Record 1972 - present
4f.	Update Frequency Monthly.	41	Upclate Frequency Periodically as data is received
49.	Database Hardware/Software Configuration VAX computer with custom software	4g	Detubese Herdware/Software Configuration VAX computer with custom software
4h	Output Format(s) (tables, maps, etc.) Three formats: reference citations; citations plus keywords; abbreviated citations from index searches	4h.	Output Format(s) (tables, maps, etc.) Tables, text.
5.	Restrictions and Conditions None.	5.	Restrictions and Conditions An account and password are required for access.
6.	Price Information Charges for on-line use and delegated searches on-line \$1.00/minute	6	Price Information On-line charges depend on request.
	for connect time and \$0.10 per reference. Oelegated: \$0.25/reference.	7.	Corresponding Printed Sources A hard copy of the catalogue has been printed.
7.	Corresponding Printed Sources A hard copy of each reference document is held at the Centre.	8	Languages Oatabase is bilingual
8	Languages The database and users aids are bilingual.	9.	User Aids Available Query user's manual.
9.	User Aids Available On-line glossary of terms; User's guide; Keyword dictionaries; List	10	Keywords Image-processing, Remote sensing.
	of satellites; List of acronyms; List of remote sensing organizations.	11.	Additional information
10.	Keywords Image-processing, Photogrammetry, Remote sensing.		 This database is very user friendly and time efficient Oats tapes, photographs and other products may be obtained from the Order Office Radarsat International Inc., Suite 660, 101-6th Ave. S.W. Calaary
	information sources useful for state of the environment reporting.		Alberta; telephone (403) 237-8860, FAX (403) 265-9109.

	Sustainable Agriculture Task Force Database	Wildlife Toxicology Bibliographic Database
1	Datafile Name(s) Not applicable	1. Datafile Name(s) Bio.fil, Pest.fil, Contam fil.
2a.	Summary Description of Contents A bibliographic database on sustainable agriculture in Canada used by the Sustainable Agriculture Task Force	2a. Summary Description of Contents Scientific papers about the effects of pesticides and other contaminants on wildlife.
26.	Purpose of the Database To reference and collect document on sustainable agriculture for the Task Force working group.	2b Purpose of the Database To provide efficient access to a large collection of wildlife toxicology literature.
3a.	Name and Address of Responsible Organization Research Branch, Agriculture Canada, Neatby Building, 960 Carling Avenue, Ottawa, Ontario, K1A 0C6.	3a. Name and Address of Responsible Organization Canadian Wildlife Service, Nationa Wildlife Research Centre, Environment Canada, 100 Gamelin Blvd, Hull, Québec, K1A AU2
3b. 3c	Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mrs. Judy Nicholson (613) 995-7228 FAX: (613) 996-2690 Access Mechanisms, Through the responsible organization	Bit Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s) Mr. David Ward (819) 953-9508 FAX: (819) 953-6612
4a.	Variables Included (summarized if extensive)	3c. Access Mechanisma Through the responsible organization.
	 author, title, document location key words (subject, geographic coverage, etc.) 	4a. Variables Included (summarized if extensive) - author, title, publication year - citation
4b.	Geographic Coverage National mainly, some international coverage.	- key words
4c.	Data Acquisition Method(s) Documents provided by task force.	 document location field study geographic location (continent, country, state, province) species group (Bridle)
4d.	Geographic Unit(s) of Measurement Not applicable.	Ab Geographic Coverse International with organized as North American parameters
40.	Period of Record Most documents 1984 - present.	A Date Accudettion Method/a). Literature review by OMC neteoned
4 f.	Update Frequency As documents are received	we bare reconstruct methods) Ellerature review by CVIS personner.
49.	Database Hardware/Software Configuration VAX computer with SYSTEM 1032 software.	40. Geographic Unit(s) of Measurement Field studies referenced by continent, country, state or province.
4h.	Output Format(s) (tables, maps, etc.) Text.	4e Period of Record 1930's - present.
5.	Restrictions and Conditions None	4f Update Frequency Continuously; kept very current.
6	Price Information No charge.	4g. Database Hardware/Software Configuration IBM PC with CARDBOX PLUS.
7.	Corresponding Printed Sources Lists of references by keyword can be prepared	4h. Output Format(s) (tables, maps, etc.) Text or ASCII file on diskette.
8.	Languages Reference are input in the language in which they were published.	5. Restrictions and Conditions None.
9.	User Aids Available A user aid is available on computer at the beginning of the database.	6. Price Information No charge 7. Corresponding Printed Sources None.
10.	Keywords Agriculture; Harvesting; Sustainable development	8. Languages Database is in English
11.	Additional Information	9. User Aids Available Database keywords conform to accompanying thesaurus.
	 This database is under development. It is currently set up as a working tool for the taskforce. 	10. Keywords Contaminants; Pesticides, Pollution; Toxics; Toxicology; Wildlife.
	 There is also a larger database on sustainable agriculture at MacDonald College, McGill University in Montreal (contact Dr. Stewart Hill), Agriculture Canada is working with McGill University staff to avoid database duplication. 	 Additional Information An index to incorporate selected words in reference titles is under development and alternative storage systems are being assessed

6. References

- Environment Canada and Statistics Canada (1986). State of the Environment Report for Canada. Catalogue EN 21-54/1986E, Environment Canada, Ottawa.
- Government of Canada (1991). The State of Canada's Environment. Catalogue EN21-54/1991E, Government of Canada, Ottawa.
- Keddy, C.J. and T. McRae (1989). Environmental Databases for SOE Reporting: Conservation and Protection Headquarters. Technical Report No. 9, SOE Reporting Branch, Environment Canada, Ottawa.
- McRae, T. (1990). Environmental Databases for State of the Environment Reporting: Atmospheric Environment Service, Canadian Parks Service, Corporate Policy Group, Environment Canada Regional Offices. Technical Report No. 16, State of the Environment Reporting Branch, Environment Canada, Ottawa.
- Statistics Canada (1986). Human Activity and the Environment: A Statistical Compendium. Catalogue 11-509E, Structural Analysis Division, Statistics Canada, Ottawa.
- Statistics Canada (1990a). Databases for Environmental Reporting: Federal Government Departments, excluding Environment Canada. Internal Working Paper, Environment and Natural Resources Section, Statistics Canada, Ottawa.
- Statistics Canada (1990b). Statistical Data Documentation System. Standards Division, Statistics Canada, Ottawa.
- Statistics Canada (1991). Human Activity and the Environment, 1991. Catalogue 11-509E, Environment and Wealth Accounts Division, Statistics Canada, Ottawa.

7. Additional Items

7.1 Environmental Database Information Form

The Environmental Database Information Form is presented on the next two pages. Potential contributors are asked to photocopy, complete and mail (or FAX) the form to the address provided. Contributions may also be provided by telephone.

Environmental Database Information Form

Database Name and Acronym	1. Data File Name(s)
2a. Summary Description of Contents	2b. Purpose of the Database

3a. Name and Address of Responsible Organization

3b. Contact Person(s), Address (if different from 3a), Telephone and FAX Number(s)

3c. Access Mechanisms

4a. Variables Included (summarized if extensive)	4b. Geographic Coverage
	4c. Data Acquisition Method(s)
	4d. Geographic Unit(s) of Measurement

4e. Period of Record	4f. Update Frequency
4g. Database Hardware/Software Configuration	4h. Output Format(s) (tables, maps, etc.)
5. Restrictions and Conditions	6. Price Information
7. Corresponding Printed Sources	8. Languages
9. User Aids Available	10. Keywords
11. Additional Information	
Please photocopy, complete and return to: Environment Statistics Section National Accounts and Environment Division Statistics Canada 21st Floor, R.H. Coats Building Ottawa, Ontario K1A 0T6	For questions, clarification or completing a form by phone call: Murray Cameron, Statistics Canada Tel: (613) 951-3740 FAX: (613) 951-3618 cr Eruce Mitchell, Statistics Canada Tel: (613) 951-3742 FAX: (613) 951-3618

7.2 List of Database Titles by Subject Matter Categories

In this report databases have been listed by the responsible federal department. To aid users, this section lists the same databases classified by broad subject matter categories. The subject matter headings are drawn from the Population Environment Process Framework (PEP). This framework was used as the organizing basis for Statistics Canada's (1991) environmental publication "Human Activity and the Environment, 1991". The framework includes categories (see Table 2) on Human Population, Social and Economic institutions and elements of the environment and the processes of interaction that take place among these entities. In many cases databases can be found under a variety of subject headings. For additional information on the PEP framework refer to "Human Activity and the Environment, 1991", Statistics Canada (1991).

Table 2: Subject Matter Categories

PEP Subject Category Population Population Human Health Environmental Regulation, Management and Assessment Socioeconomic Activities (production, consumption, construction) Manufacturing and Energy Production Transporting Household Consumption Generation of Wastes Management of Wastes Harvesting Extraction of Resources (including water) Restructuring of Land and Water Systems Natural Systems Water Quality Air Quality

Air Quality Soil Quality Status of Biota (including Wildlife and Fish) Ecosystem State Status of Other Resources (minerals, water quantity) Natural Processes (storms, erosion, etc.)
List by Subject

Population

Population

- Census of Population (page 206) Environmental Information System (GIS Component) (page 209) Estimates of Population by Marital Status, Age and Sex for Canada, the Provinces and the
- Territories (*page 210*) General Social Survey - Cycle 1 (GSS-85)
- (page 211) General Social Survey - Cycle 4 (GSS-89)
- (page 212) Projections of Population, Households and
- Families for Canada and the Provinces (page 219)
- Public Opinion on the Environment (page 95) Survey of Atlantic and Pacific Fishermen Database (page 136)

Human Health

- Additive Database System (ADS) (page 180) Canadian Mortality Data Base (page 204) Hospital Morbidity (page 212)
- International Register of Potentially Toxic Chemicals Database (IRPTC) (page 180)
- Multi-City Acid Aerosol Study (page 181) National Cancer Incidence Reporting System (page 216)
- Ontario Hospital Admissions and Ambient Air Quality (page 181)
- Pesticide Database System (PDS) (page 182)

Environmental Regulation, Management and Assessment

- Artifact Information System (AIS) (page 47) Automated Water Quality Monitoring Data (page 49)
- Canadian Coast Guard Pollution Incident Reporting System (page 224)
- CCME Inventory of Environmental Protection Research and Development Projects (page 234)
- Chemical Profiles Database Schedule II Transportation of Dangerous Goods (CHEMPROF) (page 56)
- CITES (Convention on International Trade in Endangered Species) Import/Export Permits (page 58)
- Conservation Areas Database (page 60)
- Domestic Substances List (DSL) (page 62) Environmental Assessment and Review Process (page 225)
- Environmental Information System (GIS Component) (page 209)
- Environmental Screening System (page 226) Envirosource (page 235)

Historic Sites and Monumen's Board of Canada/Systems Planning (HSMBC/SP) (page 69) Hydrometric Data File (page 59) Importance of Wildlife to Canadians (page 71) Information on Regulated Emissions of the Petroleum Refining Industry in Quebec (page 73) Lake Superior Shore Property Inventory and Damage Survey (page 75) Land Administration System (LAS) (page 186) Local Government Financial Management Statistics - Capital Expenditures (page 214) Local Government Gross Revenue and Expenditures (Actual Data) (page 215) Maritime Provinces Strategic Land Use Database (page 78) Mine Compliance Data (page 8") Municipal and Industrial Strategy for Abatement -Iron and Steel Industry Database (page 82) National Analysis of Trends in Emergencies System (NATES) (page 84) Nuclear Data System (NUDAT) (,page 89) Ocean Dumping Permit System (DDUMP) (page 90) PARC (National Parks and National Historic Sites in Quebec) (page 240) Park Use Related Data System (FURDS) (page 92) Pest Management Research Information System (PRIS) (page 14) Pesticide Registrant Survey (page 92) Prairie Rural Water Development Frogram Projects (page 15) Prototype Northern Mining Records System (page 191) Provincial Government Revenue and Expenditure (Estimates and Actual Data) (page 219) Public Opinion on the Environment (page 95) Restricted Information System for Chemicals Ontario Region PCB Inventory (page 99) Restricted Information System for Chemicals Quebec Region PCB Inventory (RISC QRPCB) (page 100) St. Lawrence River Industrial Discharge Management System (page 103) Western and Northern Region (C & P) Industrial Compliance (page 106)

Socioeconomic Activities (production, consumption, construction)

Manufacturing and Energy Production

- Annual Survey of Manufactures (I²art 1: Non-durable Goods /Part 2: Durable Goods) (page 204)
- Arctic Industrial Activities (page 119)
- Bioenergy Information and Technology Transfer System (BITTS) (page 30)
- Capital and Repair Expenditures, Actual (page 205)
- Corrugated Boxes and Wrappers (page 207) Crude Petroleum and Natural Gas Production (page 208)

Development Expenditures (page 32) Directory of Manufacturers: Environmental Products (page 198) Electricity Supply/Disposition Quarterly (page 209) Ferrous Foundry Database (page 63) Fish Plant Registration Database (page 132) GSC Petroleum Exploration and Resources Evaluation System (page 33) Historical Manufacturing Centres Project (page 68) Industrial Consumers of Energy (page 214) International Energy Agency Energy Technology Data Exchange (page 238) Inventory of Canadian Non-ferrous Foundries (page 74) Municipal and Industrial Strategy for Abatement -Iron and Steel Industry Database (page 82) Non-ferrous (Base Metal) Smelters Database (page 87) Production and Shipments of Plastic Bottles (Blow-moulded) (page 217) Production, Shipments and Stocks on Hand of Sawmills East of the Rockies (page 218) Production, Shipments and Stocks on Hand of Sawmills in British Columbia (page 218) Pulp and Paper Industry Data Management System (page 96)

Database on the Panel on Energy Research and

- Pulp and Paper Mill Profile System (page 96) Shipments of Plastic Film and Bags
- Manufactured from Resin (page 221) Thermal Generating Station Fuel Consumption (page 221)
- Western and Northern Region (C & P) Industrial Compliance (page 106)
- Wholesale Trade Survey (monthly) (page 222)

Transporting

Aircraft Movement Statistics (page 203) Bird Strike Data (page 224) Environmental Screening System (page 226) For-hire (Commodity Origin-Destination) Trucking Survey (page 211) Fuel Additives Database (page 65) Lead Additives in Gasoline (LAG) (page 76) Leaded Gasoline Data Management System (page 76) Motor Carrier - Freight and Household Goods Movers Survey (page 215) Operational Incident Reporting System (OIRS) (page 226) Passenger Bus and Urban Transit Statistics (Annual) (page 217) Potential Pollutants Monitoring System (page 227) Road Motor Vehicle Survey (Fuel) (page 220) Road Motor Vehicles (Registration) (page 220) Vehicle Emission Tests (page 105) Vehicle Fuel Economy and Emissions Systems (page 227)

Household Consumption

Additive Database System (ADS) (page 180) Canadian Inventory of Historic Buildings (CIHB) (page 56)

Household Facilities and Equipment Survey (HFE) (page 213)

Households and the Environment Survey (page 213)

Housing Market Information System (page 20)

Generation of Wastes

- Aircraft Noise Exposure Forecast (NEF) (page 20) B.C. Discharge Inventory Database (page 51) Bulletin pH (page 53) Compendium of Fertilizer-Use Pesticides (page 11) Crop Residue Survey (page 12) Ferrous Foundry Database (page 63) Impacts of Pesticides on Songbirds (page 71) Information on Regulated Emissions of the Petroleum Refining Industry in Quebec (page 73)
- Lead Additives in Gasoline (LAG) (page 76) Levels of Pesticide Contaminants in Fertilizers
- (page 13) Livestock Feeds Contaminants Database
- (page 14)
- Long Range Transport of Atmospheric Pollutants - Organics (page 114)

National Air Pollution Surveillance Network (NAPS) (page 83)

- National Analysis of Trends in Emergencies System (NATES) (page 84)
- National Registry of Toxic Chemical Residues (NRTCR) (page 86)
- Non-ferrous (Base Metal) Smelters Database (page 87)
- Northwest Territories Toxic Spills Management System (page 190)
- Pesticide Residues on Plants (page 240)
- Regulatory Information on Pesticide Products (page 16)

Ocean Dumping Database System Pacific and Yukon Region (page 90)

- Pollution Incident Report Records Collection (page 93)
- Pulp and Paper Industry Data Management System (page 96)
- Pulp and Paper Mill Profile System (page 96) St. Lawrence River Industrial Discharge

Management System (page 103) Sulphur Content in Liquid Fuels (page 103) Vehicle Emission Tests (page 105)

Management of Wastes

- Acid Rain Impact Assessment Database (page 170)
- Acid Rain National Early Warning System (ARNEWS) (page 170)
- Air Pollutants Compendium (COMP) (page 47)

Canadian Coast Guard Pollution Incident Reporting System (page 224)

Canadian Council of Ministers of the Environment PCB Inventory (*page 55*) Chemical Profiles Database - Schedule II

Transportation of dangerous goods (CHEMPROF) (page 56)

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