



Accessing, Interpreting and Using Canada's National Pollutant Release Inventory Data

Environment
and Climate Change Canada



Outline

- Tools for accessing National Pollutant Release Inventory (NPRI) data;
 - Presenting the NPRI's draft Understandability Strategy and project portfolio; and
 - Bilateral and international activities.
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Tools for Accessing NPRI Data

MS Excel or CSV files – Bulk Data

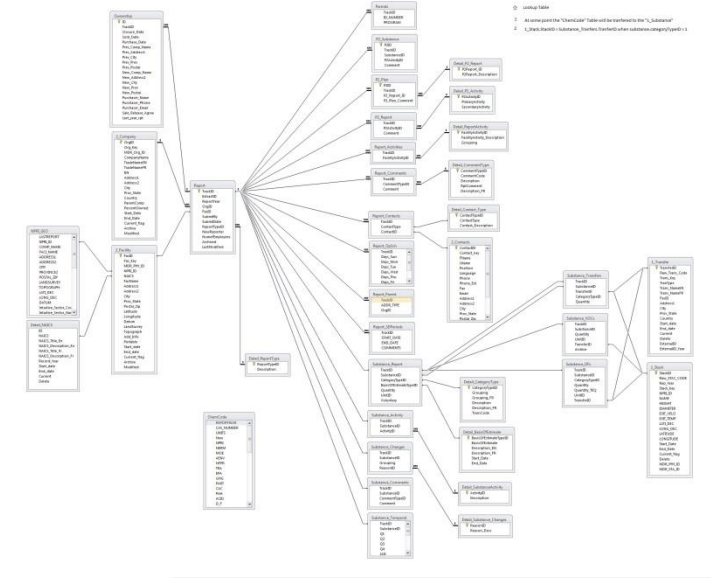
Analyze grouped data by sets for releases, disposals and transfers for all reporting years.

NPRI Database (new model)

Useful for custom analysis for “technical” users.

- Tutorials are available for the following tools:
 - Online query tool and pre-defined queries;
 - Map layers with Google Earth; and
 - CSV or MS Excel tabular files.

Reporting Yr	Facility No	Facility Name	Company No	NAICS	Division	CAJL Number	Substance No	Substance Name	Release No	Release Name	Category	Quantity	Unit	Material
2014	1	ALBERTA PACIFIC ALBERTA-PACIFIC	32210	46	NA-10		Phenacetin	Phenacetin	Chrome hexavalent	Chrome hexavalent	Leachate	60.52	kg	MS
2014	1	ALBERTA PACIFIC ALBERTA-PACIFIC	32210	46	NA-10		Methylammonium	Methylammonium	Chrome hexavalent	Chrome hexavalent	Leachate	1.00	kg	MS
2014	1	ALBERTA PACIFIC ALBERTA-PACIFIC	32210	46	NA-10		Formaldehyde	Formaldehyde	Chrome hexavalent	Chrome hexavalent	Leachate	1.00	kg	MS
2014	1	ALBERTA PACIFIC ALBERTA-PACIFIC	32210	46	NA-10		Diethylammonium	Diethylammonium	Chrome hexavalent	Chrome hexavalent	Leachate	1.00	kg	MS
2014	1	ALBERTA PACIFIC ALBERTA-PACIFIC	32210	46	NA-10		Triethylammonium	Triethylammonium	Chrome hexavalent	Chrome hexavalent	Leachate	1.00	kg	MS
2014	1	ALBERTA PACIFIC ALBERTA-PACIFIC	32210	46	NA-10		Phenacetin	Phenacetin	Chrome hexavalent	Chrome hexavalent	Leachate	1.00	kg	MS
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NPRI's draft Understandability Strategy

- A response to the 2013 National Pollutant Release Inventory (NPRI) Data Users Workshop:
 - More engagement, support and outreach; and
 - Need for more linkages with other datasets.
- Continuous improvement of NPRI:
 - Improve use and interpretation of data for all types of users; and
 - Build on planned activities to maintain and improve data quality.
- Support governmental and departmental initiatives:
 - Departmental efforts to make science more accessible; and
 - Various governmental activities.
 - Open Government
 - Open science and Open data
 - Migration to Canada.ca

Purpose

- Increase awareness of NPRI by Canadians;
- Assessing the needs of data users, including the general public, to better target our audience;
- Knowledge on-demand:
 - Serves stakeholder needs and ability to interpret NPRI data in terms of knowledge on potential environmental and human health impacts
 - Improve use of NPRI data by all types of users

NPRI Users

- NPRI data is published on the NPRI webpage, as well as on the Government of Canada's Open Data Portal and is used by a variety of users:
 - Governments and International Organizations:
 - ECCC's programs;
 - Other federal departments and provincial/territorial governments; and
 - International organizations and other countries' governments.
 - Industry associations and individual companies
 - Public:
 - Canadians;
 - Non-government organizations;
 - Community groups;
 - Educators and students; and
 - Media.
 - Universities
 - Financial Institutions
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Project Portfolio: Communication and Outreach

- Advance visibility and awareness of NPRI
- Proposed key activities:
 - NPRI University Challenge;
 - Updated NPRI reporting format and web content with innovative visual products (e.g., annual data highlights, sector factsheets, poster);
 - Partnership with museums;
 - NPRI data users survey; and
 - Booth at the Eureka Festival in Montréal, Québec.

Project Portfolio: Demonstrate Linkages with Other Environmental Datasets

- Provide knowledge-on-demand and a better understanding of NPRI uses
- Encourage data users to conduct their own analyses
- Proposed key activities:
 - NPRI University Challenge;
 - Linking NPRI data to environmental data sets (e.g., air and water quality monitoring, wildlife distribution, agricultural soils);
 - Complete a literature of peer-reviewed and published journal articles containing NPRI information; and
 - Connecting NPRI data to indicators (e.g., regulatory effectiveness, ecosystem health, climate change).

Project Portfolio: Demonstrate Linkages with Non-environmental Datasets

- Determine how NPRI data can be linked with non-environmental datasets (e.g., economic, health and social programs), and what information could be provided to help users interpret and use the data
- Proposed key activities:
 - NPRI University Challenge;
 - Examine linkages between NPRI data and various non-environmental datasets such as the Canadian Health Measure Survey and the Canadian Community Health Survey; and
 - Integrate NPRI release data with chemical properties data.
 - Illustrate relative risk of NPRI substance releases by developing a toxic equivalence tool that will weight NPRI release quantities by human health and environmental information.

Bilateral efforts: PRTR Innovation

- Increased activity with the Organisation for Economic Co-operation and Development's Working Group on Pollutant and Release Transfer Registers (PRTRs)
- Working Group's objectives:
 - Enhance the harmonization of PRTRs;
 - Seek methodologies for comparing and analyzing PRTR data when harmonization is not possible; and
 - Exchange information on ways to use PRTR data (e.g., measuring environmental performance, progress towards targets/goals, evaluating the impact of environmental policies).

International efforts: Transfer of Knowledge

- Initiated and coordinated by the United Nations Institute for Training and Research:
 - Organized workshops, training sessions and other meetings; and
 - Support the PRTR design and implementation.
- Canada's support primarily through attendance and presentation at workshops:
 - NPRI annual cycle;
 - Developing a list of chemicals; and
 - Design and implementation.



Contact the NPRI

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