



North American Pollutant Releases and Transfer Register (PRTR) Project

Orlando Cabrera-Rivera

JPAC Meeting
Montreal, Quebec
June 22, 2011



cec.org



What is a PRTR?

Pollutant releases to air, water, and land and transfers of toxic substances to disposal, treatment, energy recovery and recycling facilities

- compiled into an annual register



CEC's North American PRTR Project: Objectives

- Increase our understanding of the sources and handling of pollutants of common concern across North America
- Promote public access to information
- Improve the comparability of PRTRs in North America
- Promote the use of PRTR data for priority-setting and decision-making in order to protect shared ecosystems, reduce pollution, and improve the management of toxic substances

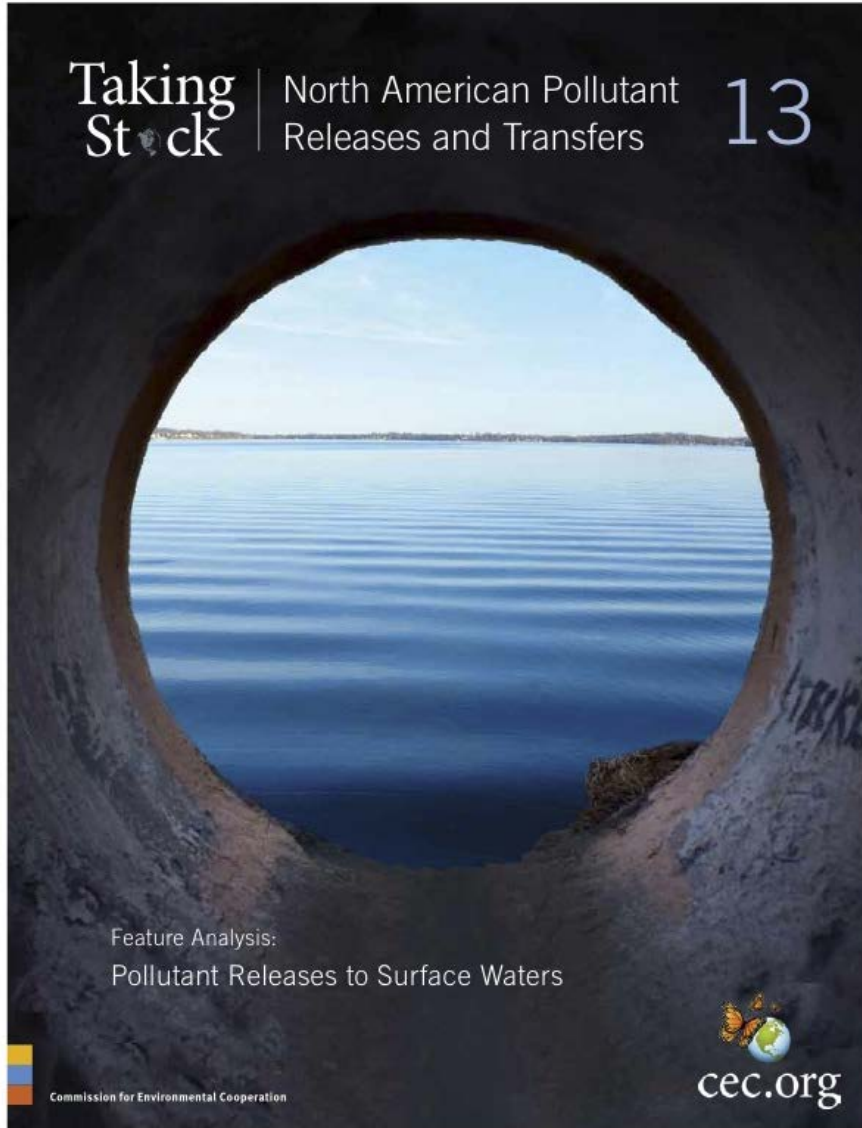
North American PRTR Project: Activities

Integrated North American PRTR dataset

- Annual *Taking Stock* report, with analyses and comparisons of PRTR data from the three countries
- Enhanced data access via *Taking Stock Online* featuring analytical tools



Taking Stock Report and Website



English Español Français

News | Events | Publications | Contact

About the CEC Projects Citizen Submissions on Enforcement Matters Public Participation and Transparency

Taking Stock Online

Home >> Projects >> Pollutants and Health >> Tracking Pollutant Releases and Transfers

Taking Stock
North American Pollutant Releases and Transfers

Try the enhanced features of Taking Stock Online, the integrated, North American PRTR Database

The TS Online tools allow you to explore information on pollution from industrial facilities across North America. Create customized queries and download your results in a variety of formats, including kml files for viewing in Google Earth and Google Maps.

- [Search the database](#)
- [The Google Earth PRTR facility Map Layer](#)

Overview of Taking Stock 2006 data

North American Releases and Transfers, 2006

Releases to air Releases to water Releases to land Underground injection Off-site for disposal Transfers

The data used in Taking Stock are reported to Canada's National Pollutant Release Inventory (NPRI), Mexico's Registro de Emisiones y Transferencia de Contaminantes (RETC), and the United States' Toxic Release Inventory (TRI).

Search

Google Custom Search

submit

Frequently Asked Questions about Taking Stock

1. What is a Pollutant Release and Transfer Register (PRTR)?

PRTRs provide annual data on the amounts of pollutants released from a facility to the air, water and land and injected underground, as well as transferred off-site for recycling, treatment or disposal.

[Read more](#)

← BACK NEXT →



2006 Pollutant Releases and Transfers Reporting Facilities



Search the database

About Taking Stock

Using and Understanding Taking Stock

Ongoing Activities of the CEC's North American PRTR Project

Taking Stock Report

News Release

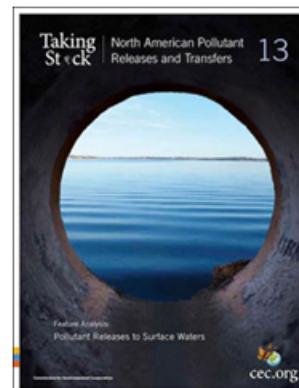
Contact us



Try the enhanced features of *Taking Stock Online*, the integrated, North American PRTR Database

The *Taking Stock Online* tools allow you to explore information on pollution from industrial facilities across North America. Create customized queries and download your results in a variety of formats, including kml files for viewing in Google Earth and Google Maps.

- [Search the database](#)
- [The Google Earth PRTR facility Map Layer](#)
- [Read the report](#)



Overview of *Taking Stock* 2006 data



[North American Releases and Transfers, 2006](#)



[Releases to air](#)



[Releases to water](#)



[Releases to land](#)



[Underground injection](#)



[Off-site for disposal](#)



[Off-site Transfers](#)

The data used in *Taking Stock* are reported to [Canada's National Pollutant Release Inventory \(NPRI\)](#), Mexico's [Registro de Emisiones y Transferencia de Contaminantes \(RETC\)](#), and the United States' [Toxics Release Inventory \(TRI\)](#).

Google Custom Search

submit

Frequently Asked Questions about Taking Stock

3. What is the value of PRTR data (and the NAPRTR Project)?

By tracking information on releases and transfers of individual pollutants, PRTR data are an important tool that can help industry, governments, communities and non-governmental organizations identify pollution prevention and reduction opportunities.

[Read more](#)

[← BACK](#)

[NEXT →](#)

Highlights of *Taking Stock 2006*

28,504 facilities reported a total of 539 pollutants (or groups of pollutants), for a total of 5.7 billion kg.

PRTR Program	Number of Facilities Reporting	Substances Reported	Total, excluding CAC and GHG (kg)
Canada NPRI	3,192 (total of 8,860, incl. CAC*)	194	2,165,320,683
US TRI	23,449	491	3,518,657,632
Mexico RETC	1,863 (total of 2,736, incl. GHG*)	69	27,969,765
North American Total	28,504 (total of 35,045, incl. CAC and GHG reporting)	539 (44 pollutants common to the three countries)	5,711,948,081

Key Findings: Releases to Water

- Over 228 million kg reported by NA facilities
- Public wastewater treatment plants reported 44% of the total, but most of these data are from Canada
- The public wastewater treatment sector is exempt from US TRI reporting; and few facilities in this sector reported to Mexico's RETC
- Nitrate compounds and ammonia (90% of Canadian and US releases to water) are exempt from Mexico's RETC. These pollutants play a key role in aquatic "dead zones" found across North America
- Facilities releasing pollutants (e.g., heavy metals) can be found in 2 important cross-border river systems: the Rio Grande and Columbia River watersheds

Taking Stock Online Query Results (Example: Metals To Water)



Taking Stock: North American Pollutant Releases and Transfers

Query Results [[Create new query](#) | [Modify existing query](#)]

Report Type: Facility
Year: 2006
Country: All Countries
State/Province/Territory (St/Pr/Ter): All States, Provinces, Territories
Common Dataset: False
Pollutant Type: Metals
Pollutants: List of all pollutants queried (18)
Units of Measurement: Kilograms (kg)
NAICS: 3
Industry: All Industries



- The tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data. Click on the name of a state or province to view a summary report. Other clicks will lead you to explanations of terms and features.
- Click media type buttons below to show or hide corresponding table columns.

Total Releases and Transfers
 Total releases (on-site and off-site)
 NAICS
 All

On-site Releases Total
 Air emissions
 Surface water discharges
 Underground injection
 Land releases

Off-site Releases Total
 To disposal (except metals)
 To disposal of metals

Recycling Transfers Total
 To recycling (except metals)
 To recycling of metals

Other Transfers Total
 To treatment (except metals)
 To sewage/POTWs (except metals)
 To energy recovery (except metals)

- Click on column headers to sort data accordingly

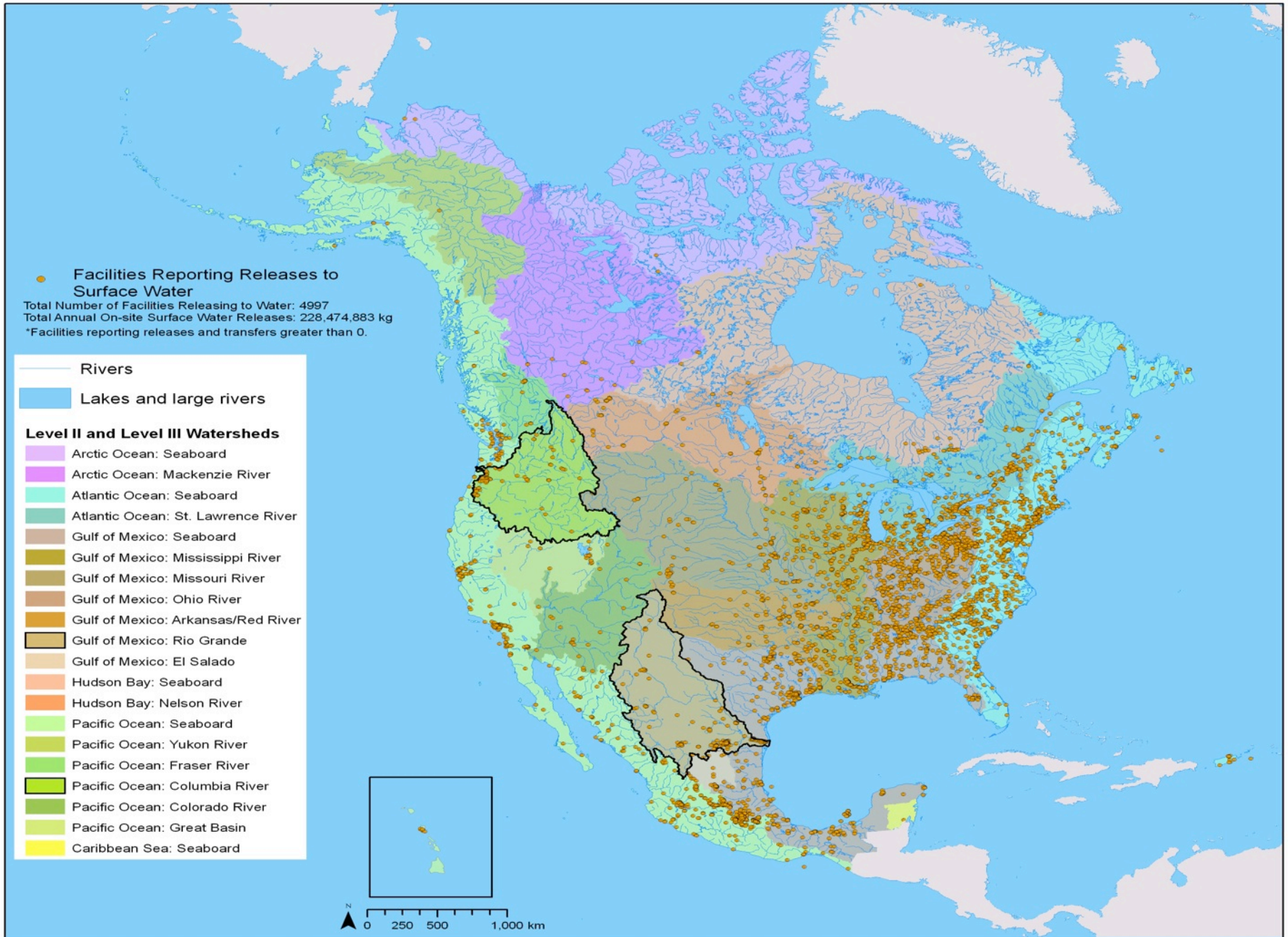
Facility Report

#	Facility Name	PRTR ID	City	St/Pr/Ter	Country	Naics Code	Industry	On-site surface water discharges
								2006 (kg)
1	DOMTAR INDUSTRIES INC. ASHDOWN MILL	71822NKSPPHIGHW	ASHDOWN	Arkansas	United States	322	Paper Manufacturing	135,555.10
2	Ville de Montréal - Station d'épuration des eaux u	0000003571	Montréal	Québec	Canada	221	Utilities	129,901.00
3	TRONOX PIGMENTS (SAVANNAH) INC.	31404KMRNCEASTP	SAVANNAH	Georgia	United States	325	Chemical Manufacturing	118,781.22
4	Comision Federal De Electricidad C. T. Juan De Di	CFEAD2500111	TOPOLOBAMPO	Sinaloa	Mexico	221	Utilities	108,722.10
5	INTERNATIONAL PAPER COURTLAND MILL	35618CHMPNPOBOX	COURTLAND	Alabama	United States	322	Paper Manufacturing	95,270.79

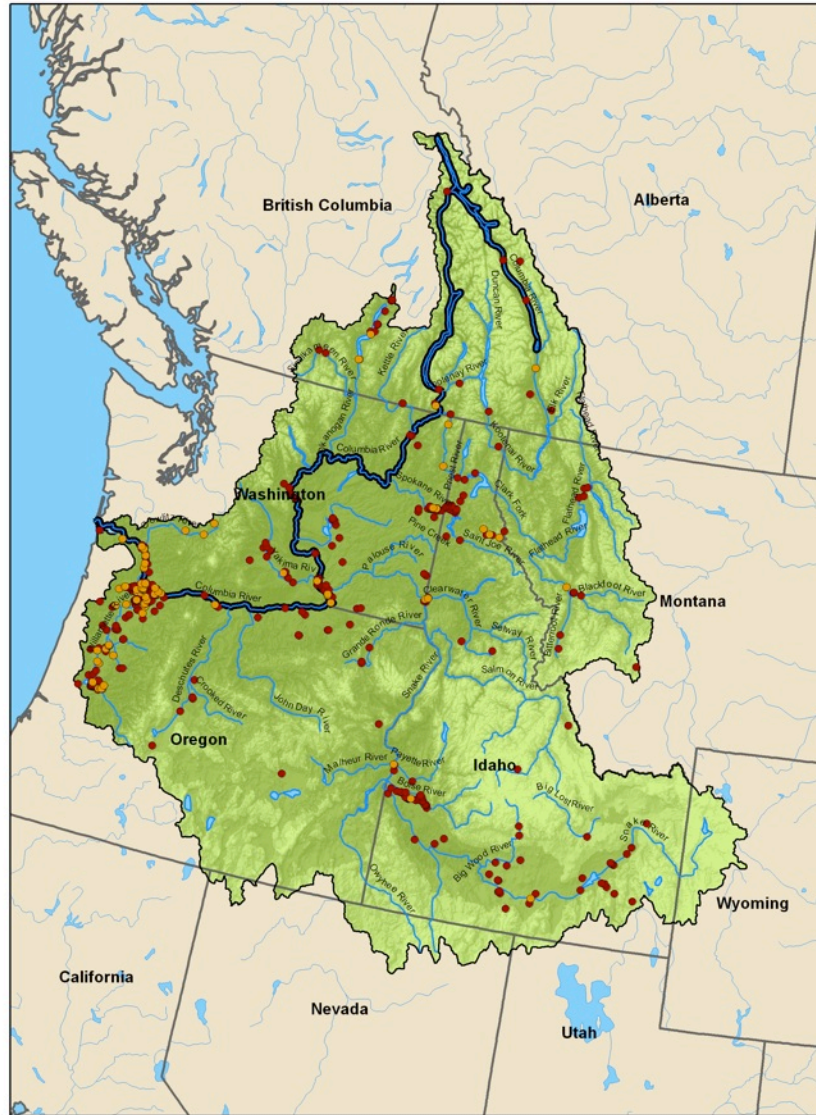
Industrial Facilities Reporting Metal Releases to Surface Water in 2006



North American Watersheds and Facilities Reporting Pollutant Releases to Water, 2006



Facilities Reporting Pollutant Releases and Transfers in the Columbia River Watershed, 2006



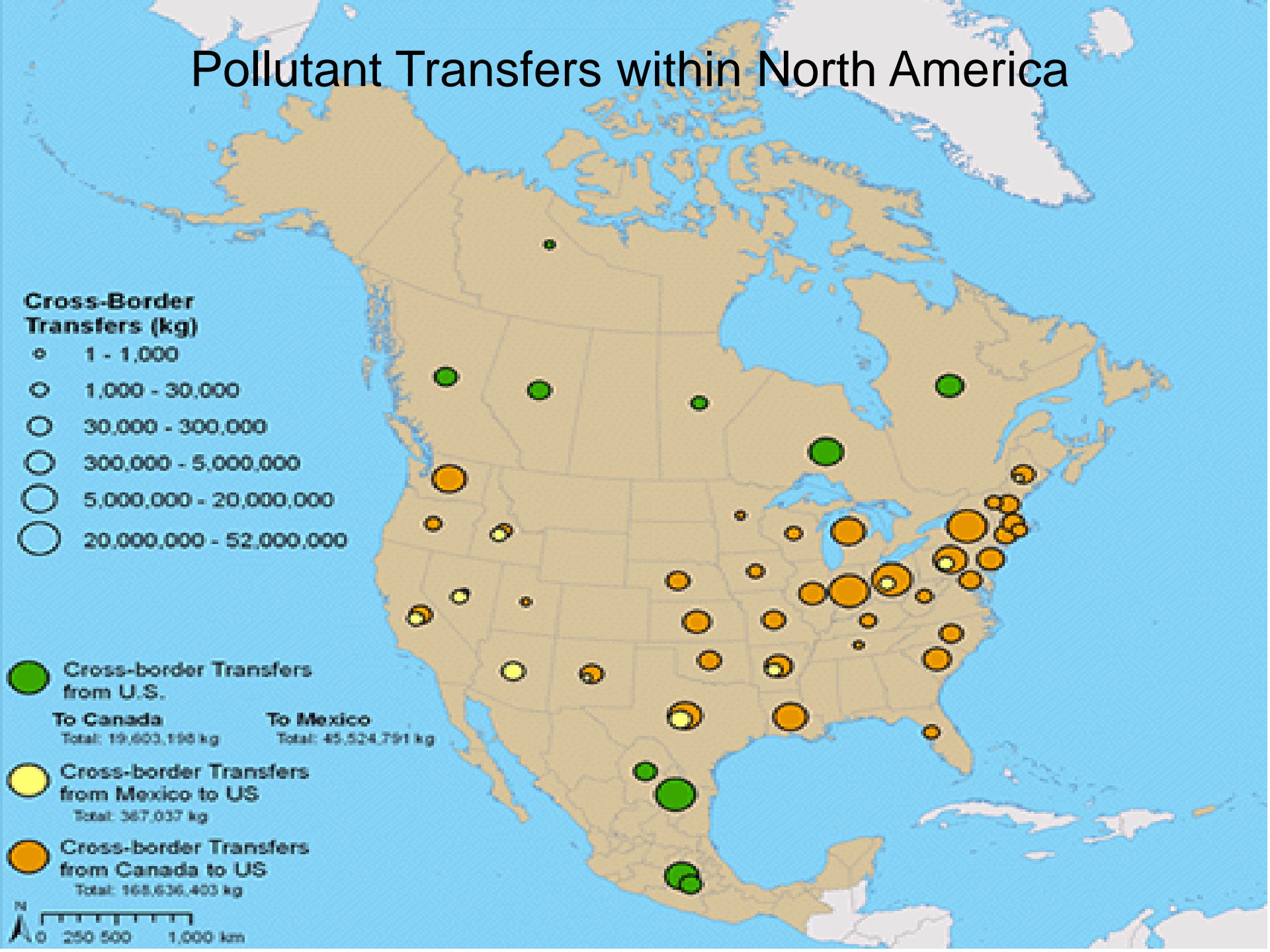
- Reporting Facilities
Total Number of Facilities: 479
Total Annual Release and Transfers: 121,682,701 kg
*Facilities reporting releases and transfers greater than 0.
- Facilities Reporting Releases to Surface Water
Total Number of Facilities Releasing to Water: 83
Total Annual On-site Surface Water Releases: 3,367,476 kg
*Facilities reporting releases and transfers greater than 0.

- Columbia River Watershed
- Rivers
- Columbia River
- Lakes and large rivers

0 87.5 175 350 km

Projection: Lambert Azimuthal Equal Area
This poster was created on October 21, 2010 by the Commission for Environmental Cooperation

Pollutant Transfers within North America





Taking Stock: North American Pollutant Releases and Transfers

Cross-border Transfer Query Results [\[Create new query | Modify existing query \]](#) [Share](#)

Report Type: Cross-border Transfer
Year: 2006
Source: United States
Destination: All Countries except United States
Pollutant Type: All Pollutant Types
Pollutants: Mercury (and/or its compounds) **D C M P**
Units of Measurement: Kilograms (kg)
AICS: 4
Industry: All Industries

The tool also allows you to 'drill down' to view additional information. For example, click on the name of a facility and you will get an overview of that facility's data. Click on the name of a state or province to view a summary report. Other clicks will lead you to explanations of terms and features. Click on column headers to sort data accordingly

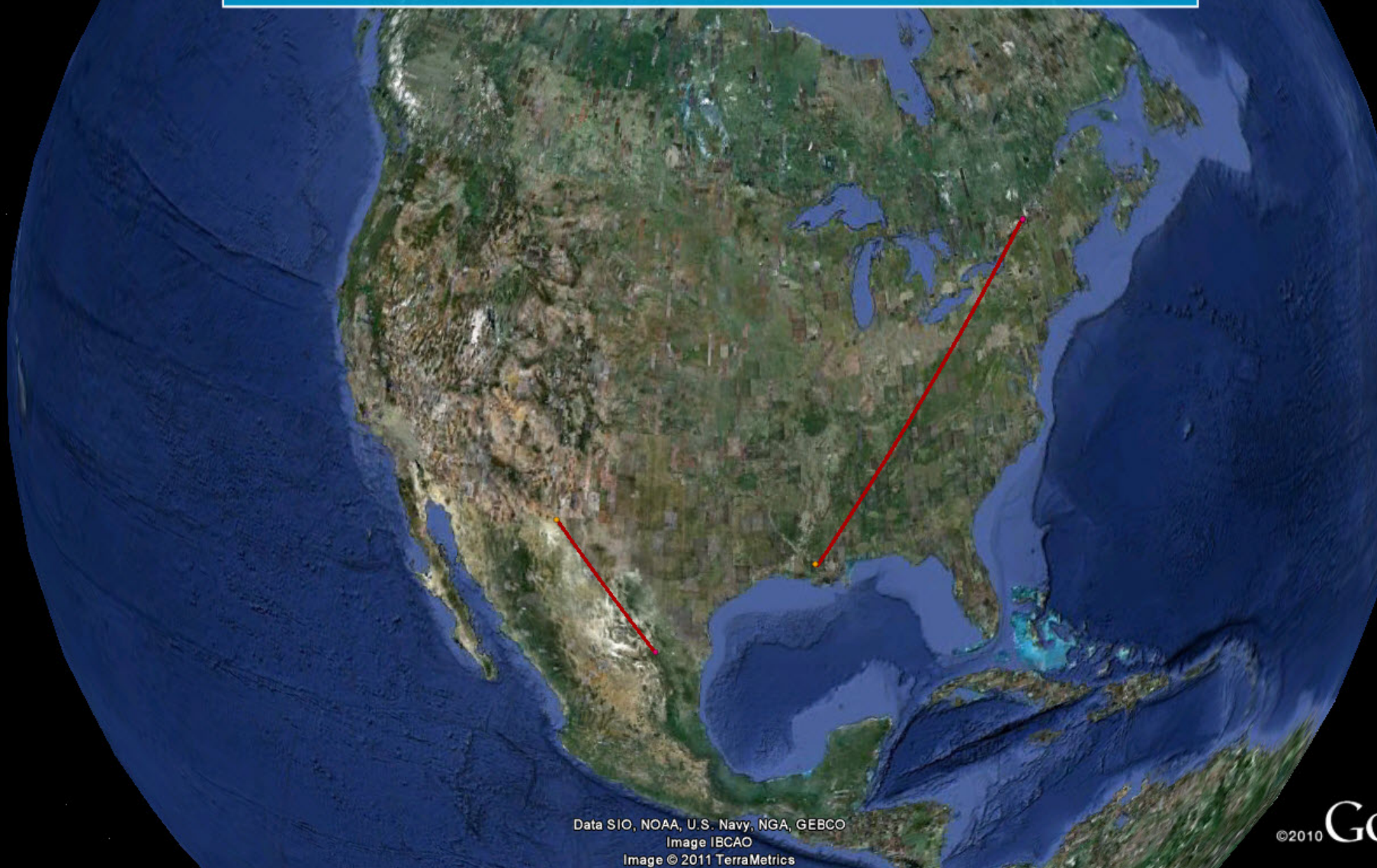
Cross-border Transfers from United States [Show transfer types](#)

#	Country	Total Cross-border Transfers	Off-site to disposal of metals	Transfers to recycling of metals
		2006 (kg)	2006 (kg)	2006 (kg)
1	Canada	7,736.49	7,730.09	6.40
2	Mexico	2,535.48	11.26	2,524.23
3	Switzerland	1.36	1.36	0
Total for this page		10,273.33	7,742.71	2,530.63

records returned
 < first < previous **1** next > last >>

Page Size: 10 [Export Report](#)

Examples of Mercury Transfers for Disposal and Recycling from the US to Mexico and Canada



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image IBCAO
Image © 2011 TerraMetrics

Examples of Mercury Transfers for Disposal and Recycling from the US to Mexico and Canada



Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image USDA Farm Service Agency
© 2011 Cnes/Spot Image
Image © 2011 TerraMetrics

© 2010 Google

39°34'10.06"N 92°52'26.69"W elev. 666 ft

Eye alt 2900.15 mi

CEC North American PRTR Project

For more information

Orlando Cabrera Rivera
Program Manager,
Air Quality/PRTR

Telephone: (514) 350-4300

Fax: (514) 350-4314

Email: ocabrera@cec.org

www.cec.org/takingstock



cec.org

Three countries. One environment.