

# Taking Stock

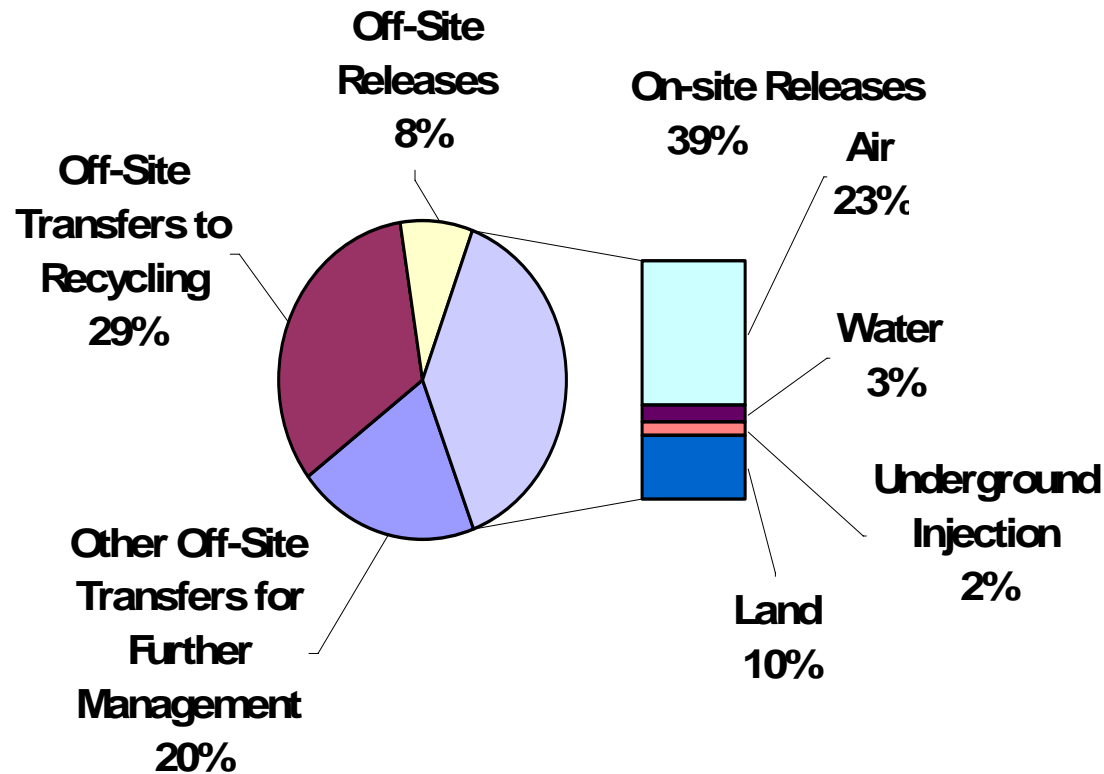
- Annual report
- Provides a North American picture of chemical releases and transfers
- Matches chemicals and industry sectors
- Analyses common elements of US, Canada and Mexico data
  - TRI, NPRI and in the future RETC data for toxic substances
  - Three country data for air criteria contaminants when available

# Taking Stock 2002

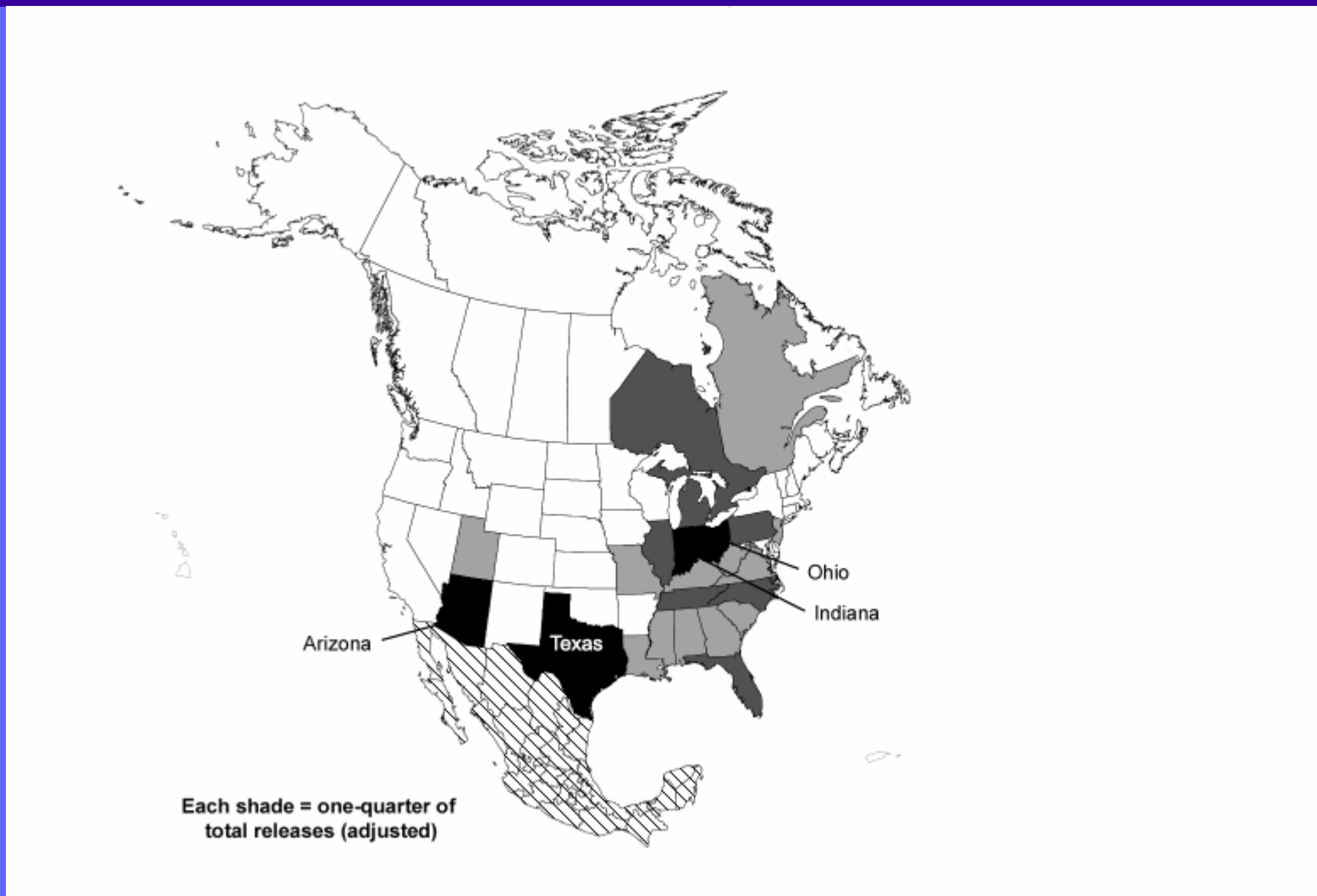
- Over 200 chemicals
- Eight year trend possible 1995-2002
- Analyzed by
  - geography,
  - industry and
  - chemicals, including chemical groups
    - carcinogens
    - chemicals linked to cancer, birth defects and other reproductive harm (California Proposition 65)
- Third year of data on persistent bioaccumulative toxics (PBTs) with first year of lead and its compounds under lowered reporting threshold
- Criteria air contaminants, first year since added to NPRI, three country analysis

# Total reported amounts- 2002

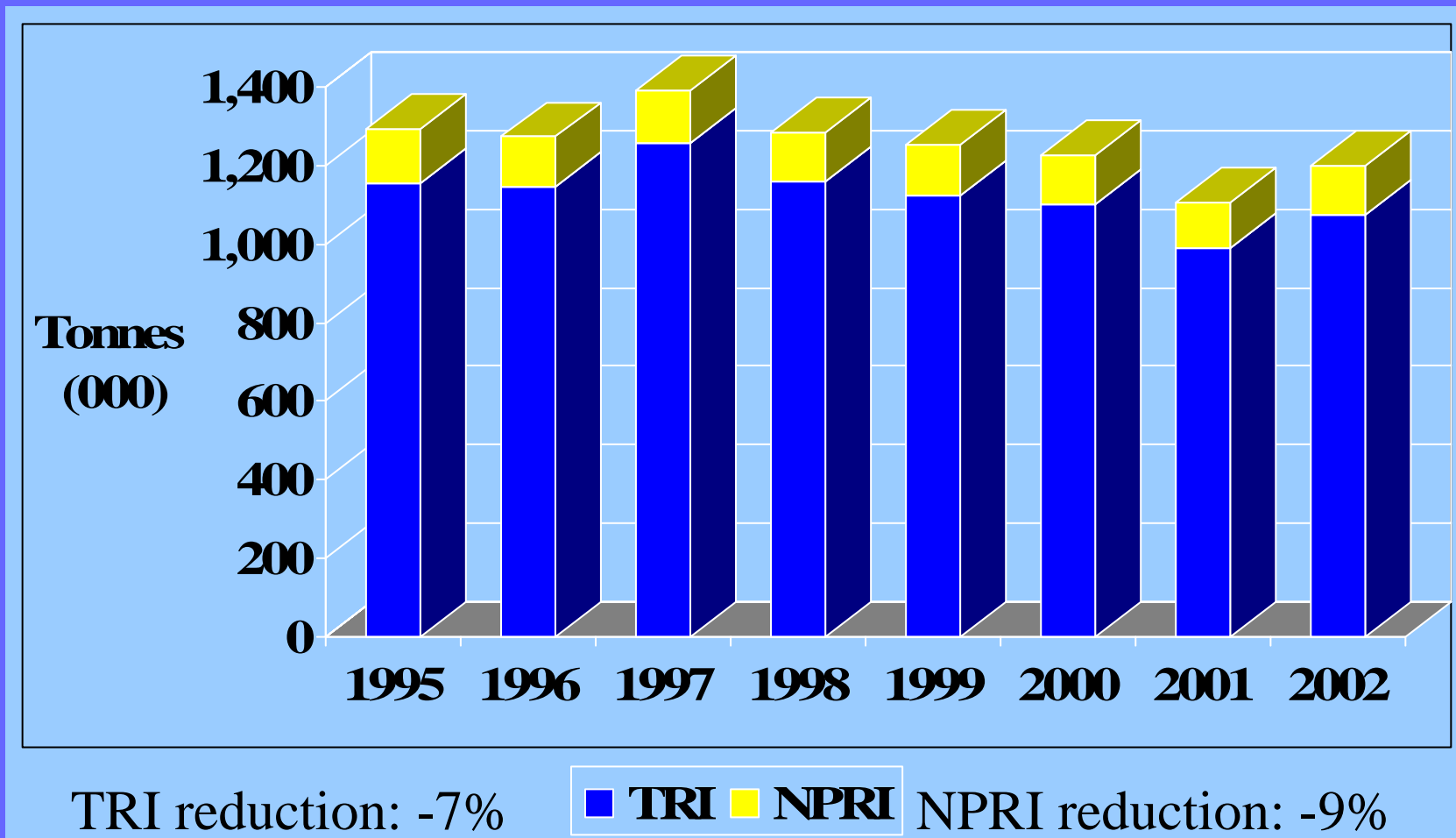
## 3.25 million tonnes



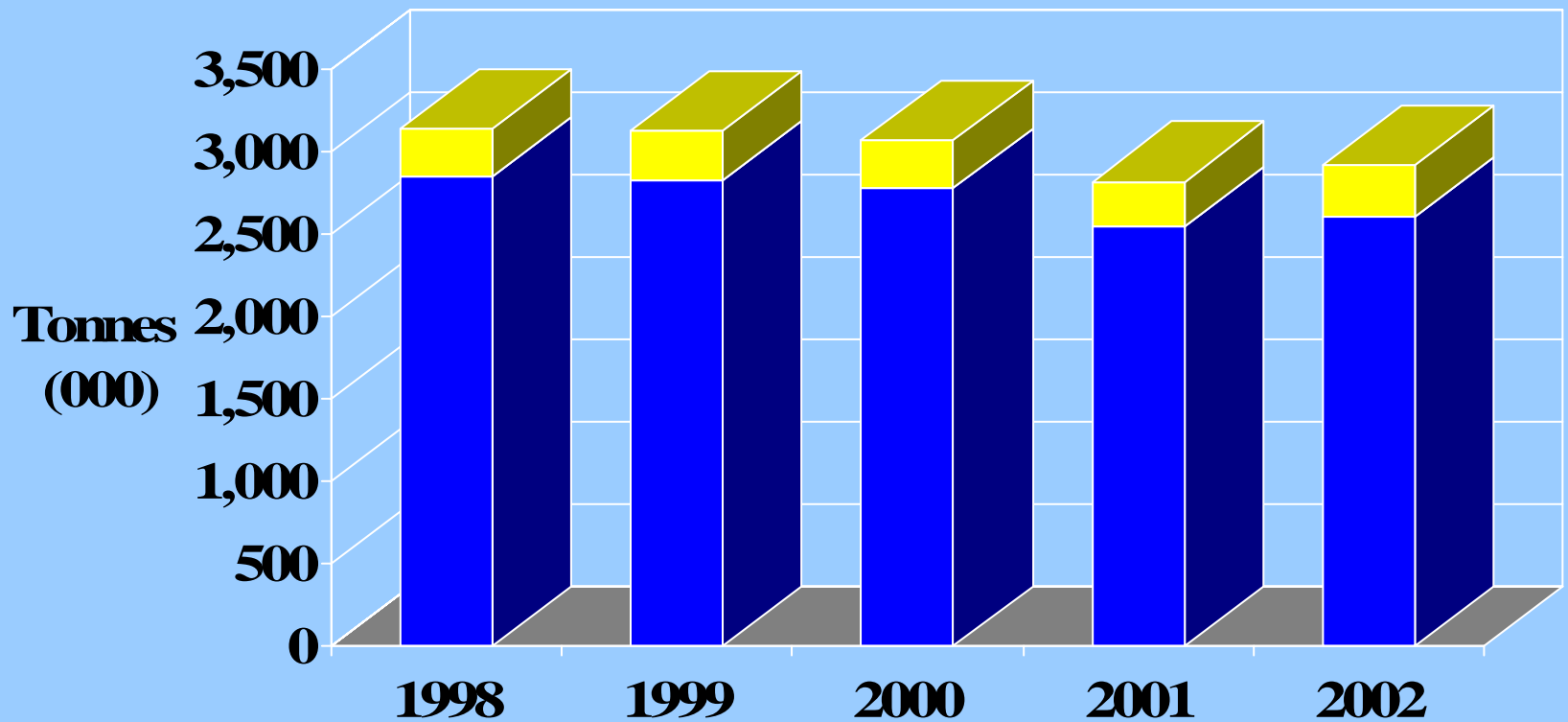
# Largest Source of Total Releases On- and Off-site, 2002



# 7% Reduction in Total Releases and Transfers 1995-2002



# 7% Reduction in Total Releases and Transfers 1998-2002

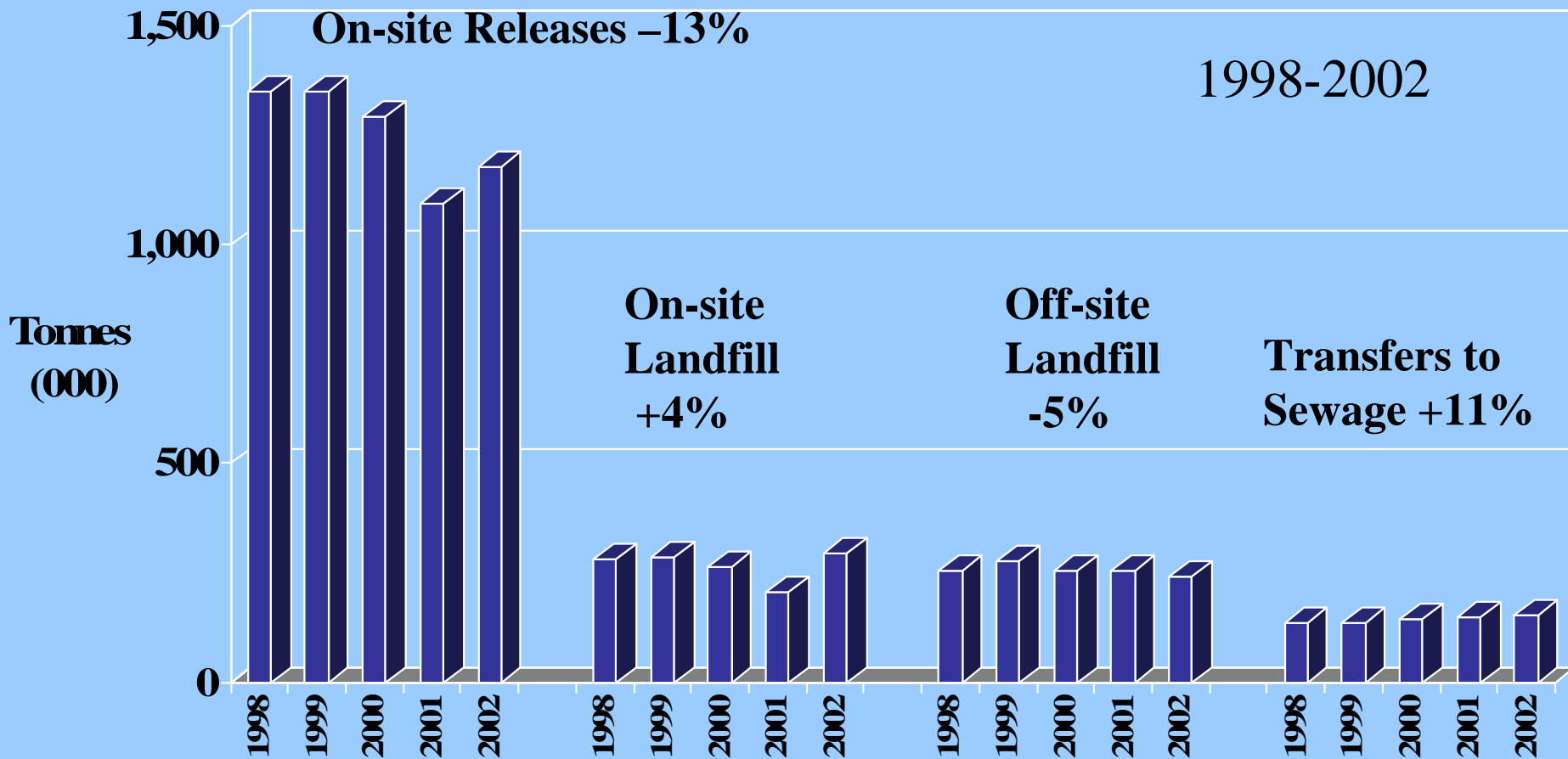


TRI reduction: -8%

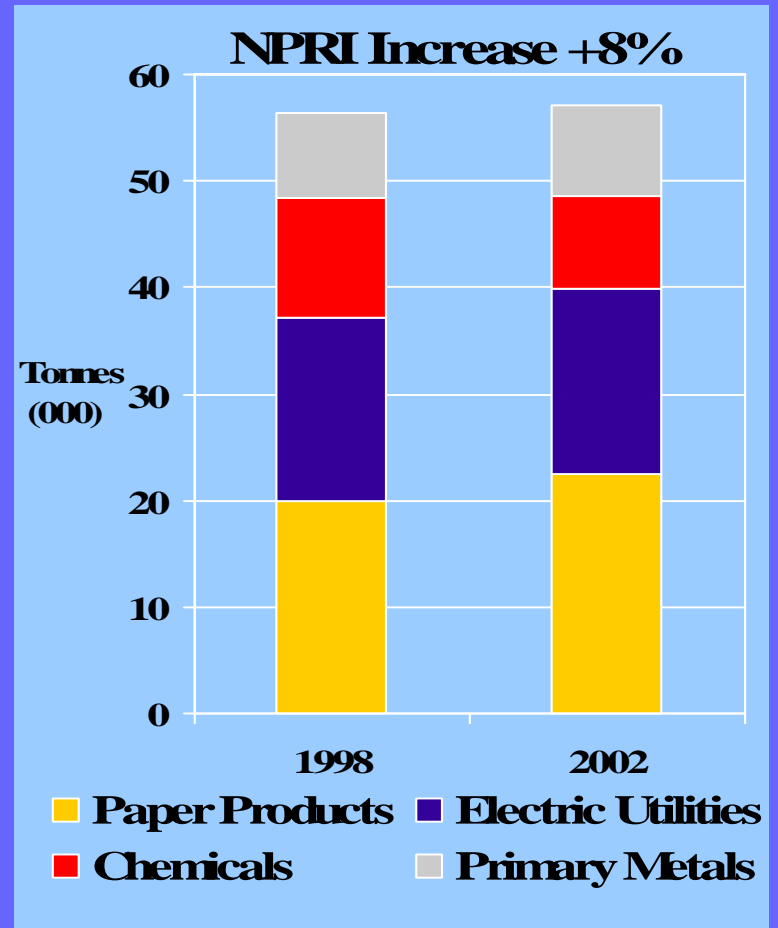
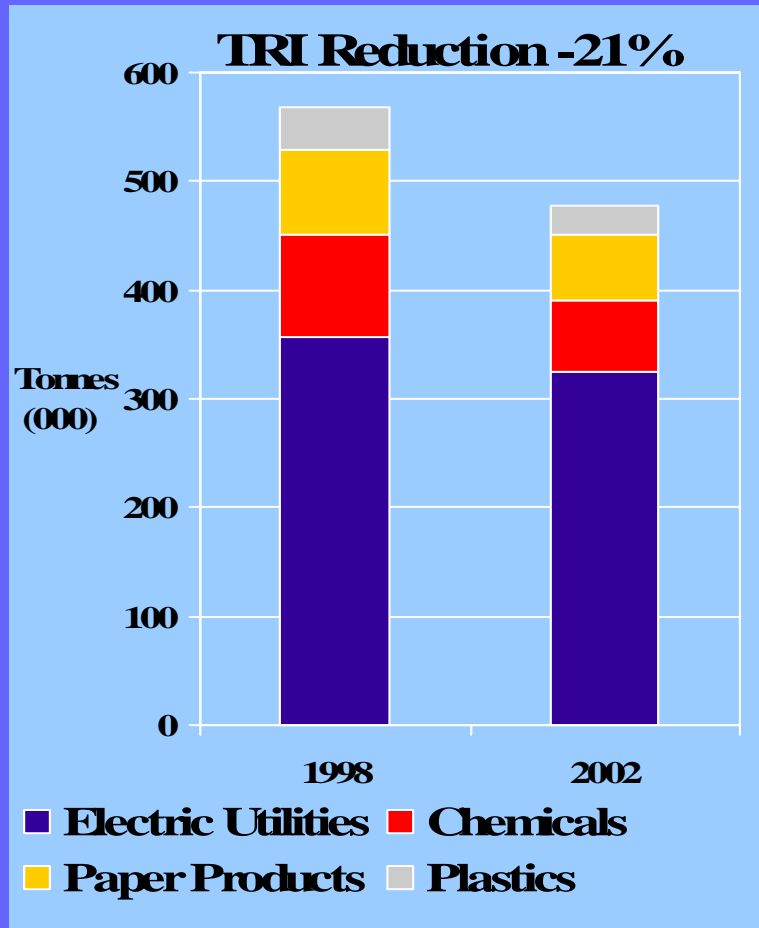


NPRI increase: +7%

Overall reductions on on-site releases, but increases in on-site landfills. Reductions in off-site transfers to landfills, but increases in off-site transfers to sewage.



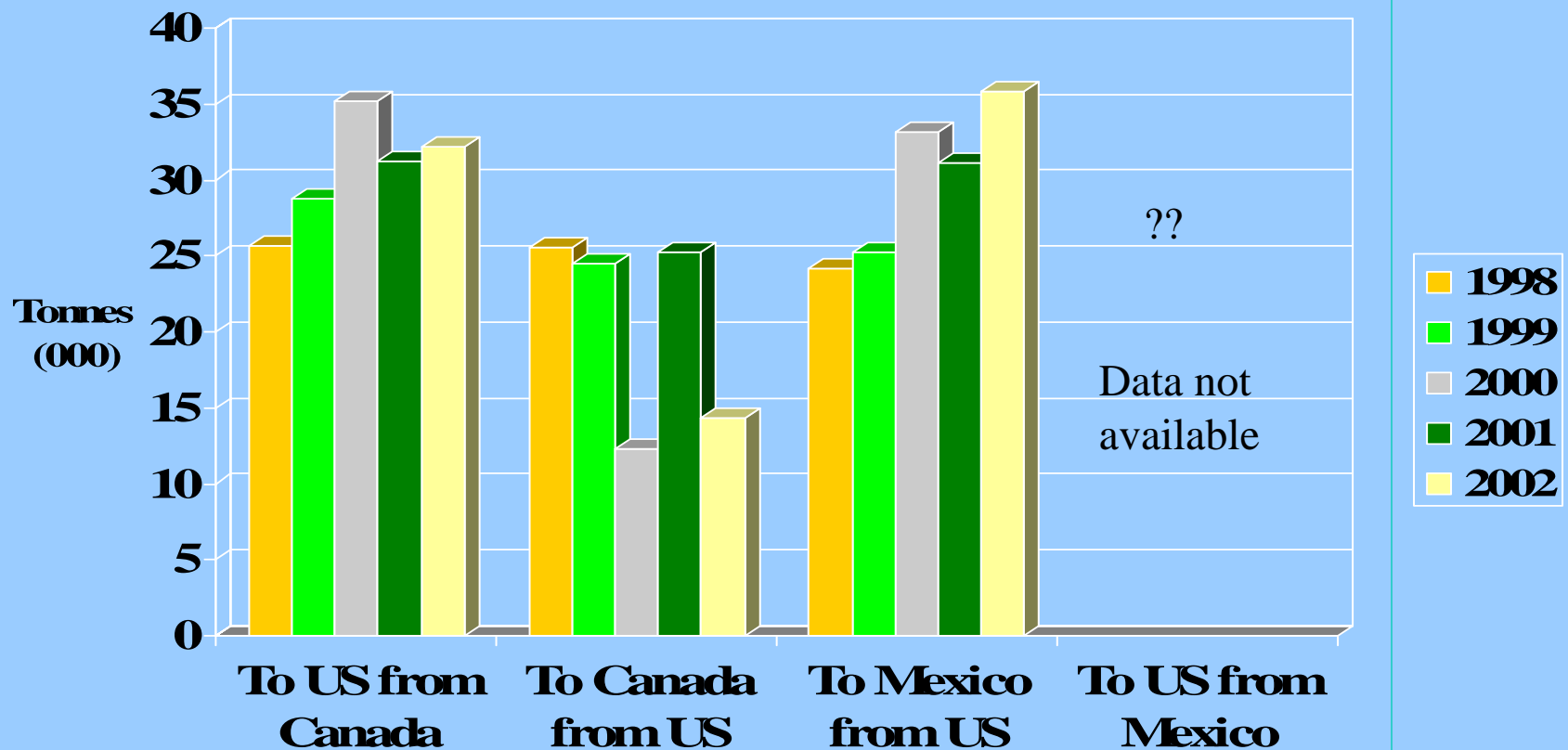
# Overall Air Releases Decreased by 18%, 1998-2002



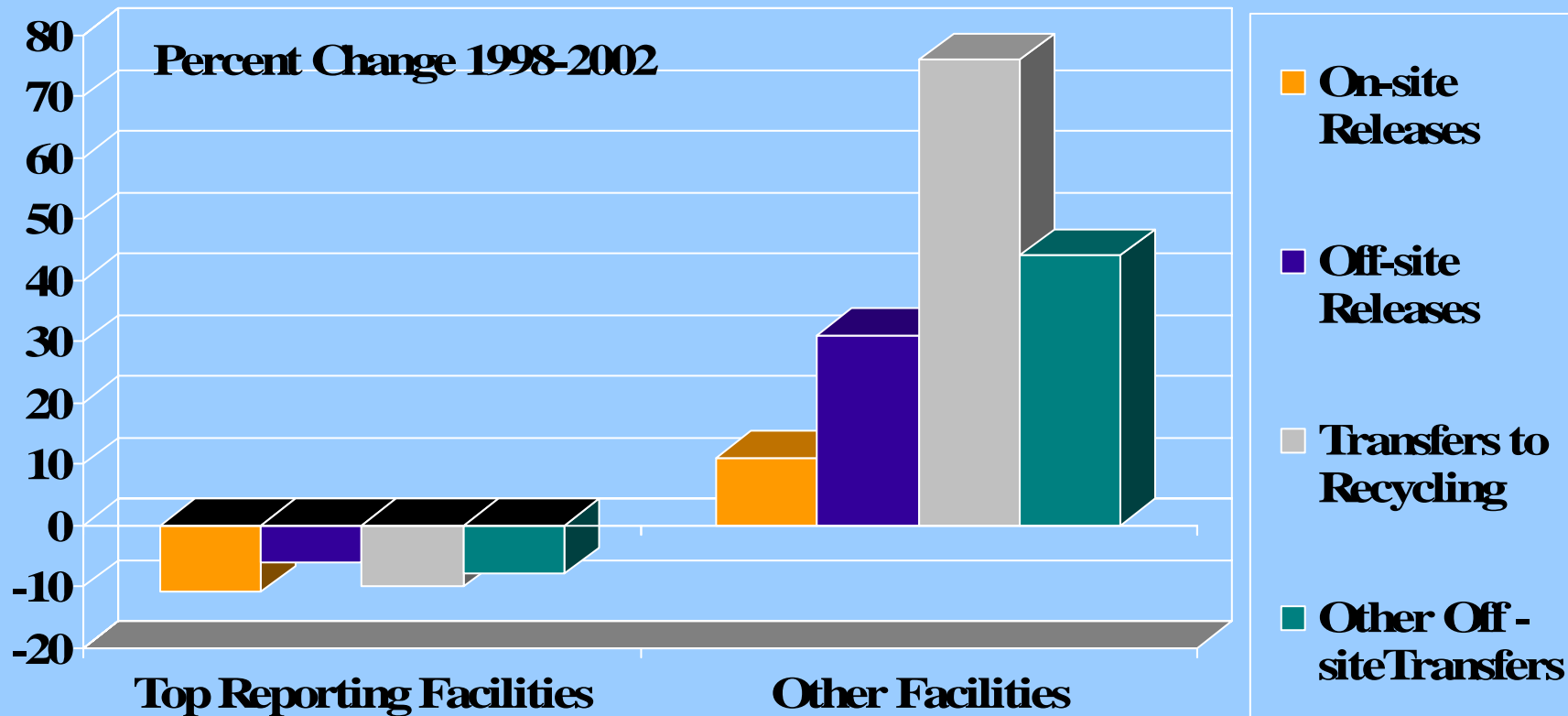


# Transfers Across Borders, 1998-2002

Transfers across borders vary. Depends on a few facilities reacting to price and business operations changes.  
Mainly transfers to recycling.



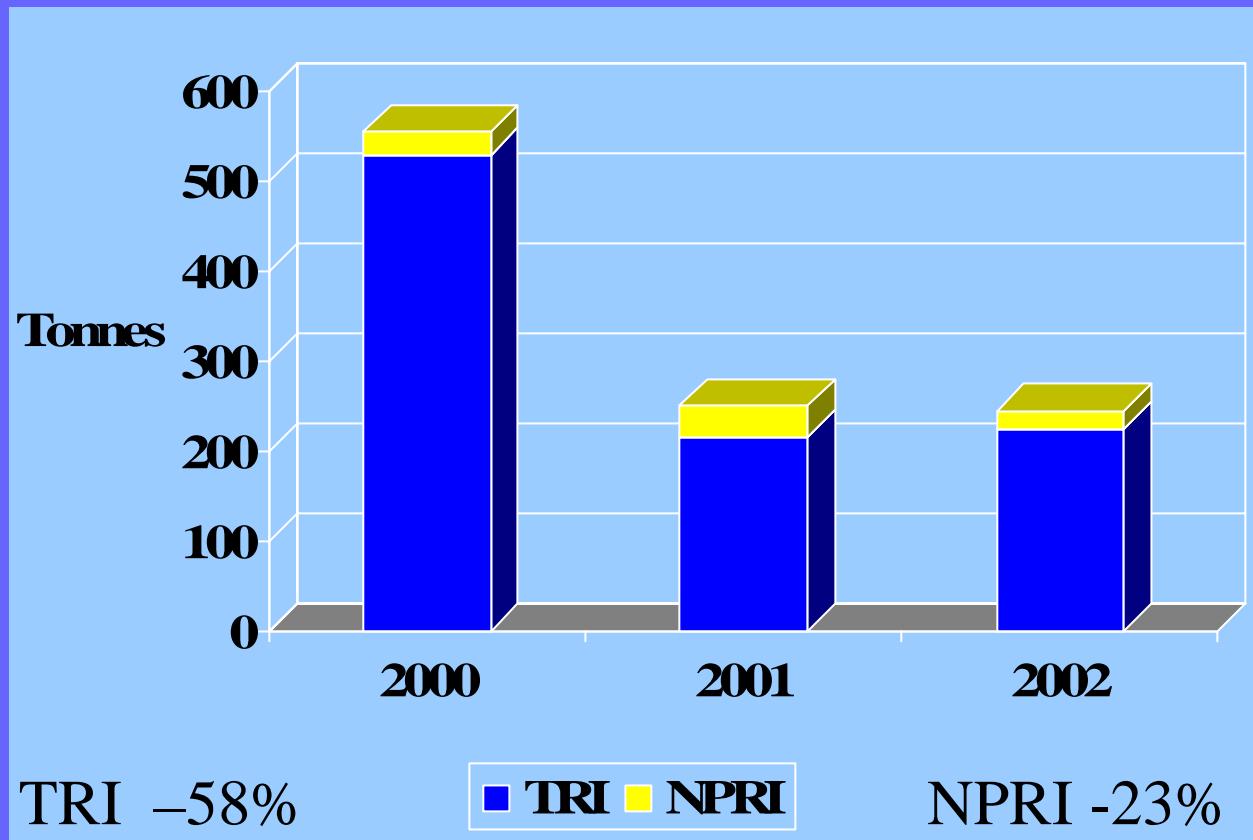
## Top-Reporting Facilities showed Decreases while Others showed Increases



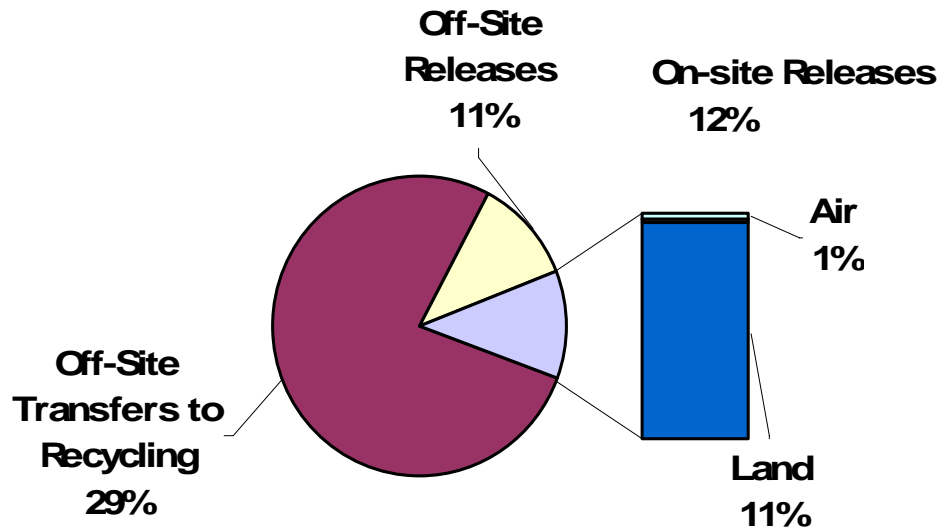
Top-reporting facilities reported 100 tonnes or more in 1998.

# Total Releases of Mercury and its Compounds, 2000-2002

Third year of reporting under lower threshold



# Total Releases of Lead and its Compounds, 2002



On-site water and underground injection < 0.1%

TRI 174 tonnes

NPRI 37 tonnes

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•  
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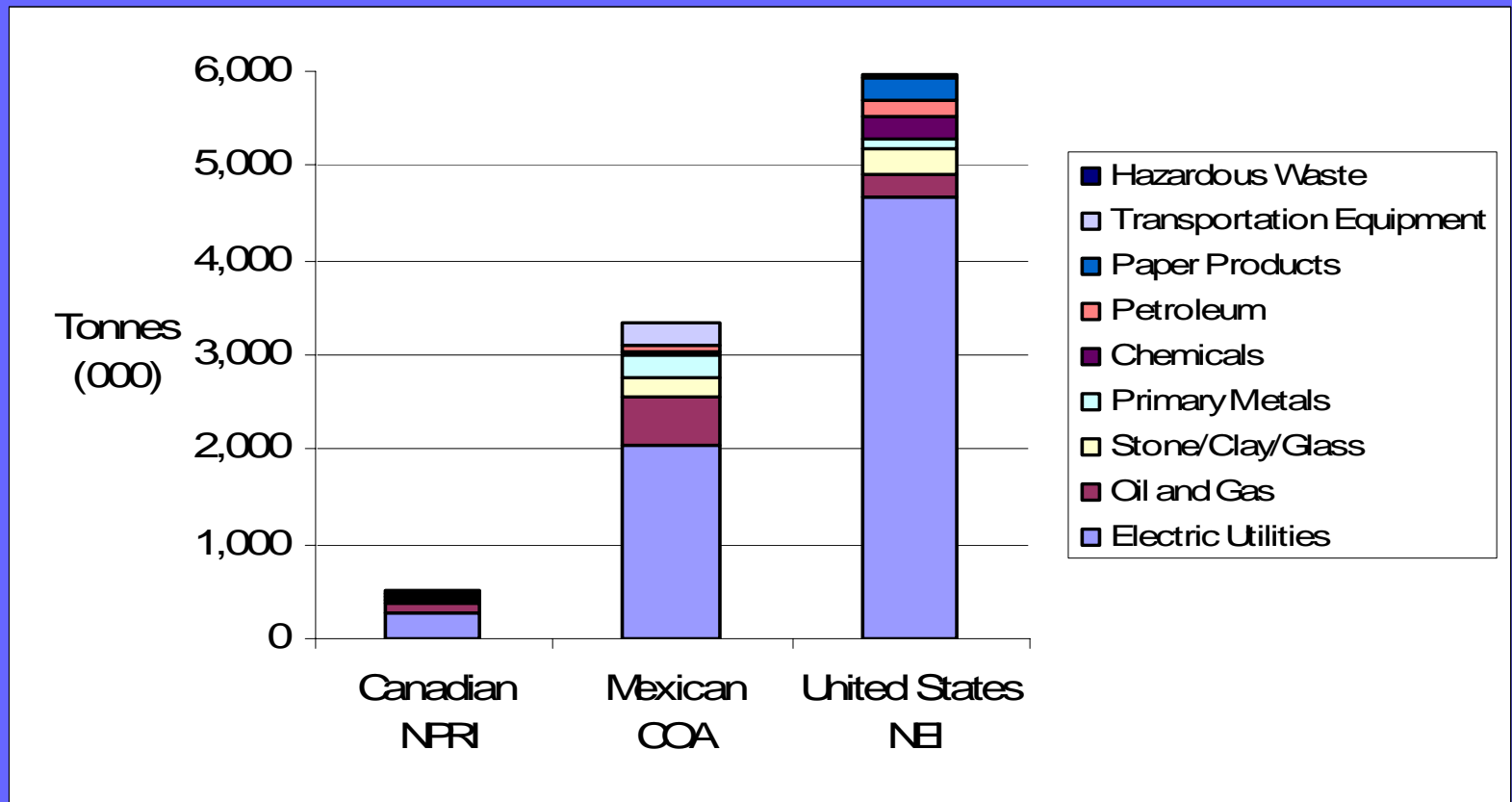
## Facilities with Largest Air Releases of Lead and its Compounds in 2002 were Primary Metals Facilities

- Hudson Bay Mining and Smelting in Flin Flon, Manitoba (110 tonnes)
- Noranda Fonderie Horne, Rouyn-Noranda, Quebec (104 tonnes)
- Inco Limited, Copper Cliff, Ontario (77 tonnes)
- Doe Run, Herculaneum Smelter, Herculaneum, Missouri (53 tonnes)
- Falconbridge, Kidd Metallurgical, Timmins, Ontario (41 tonnes)

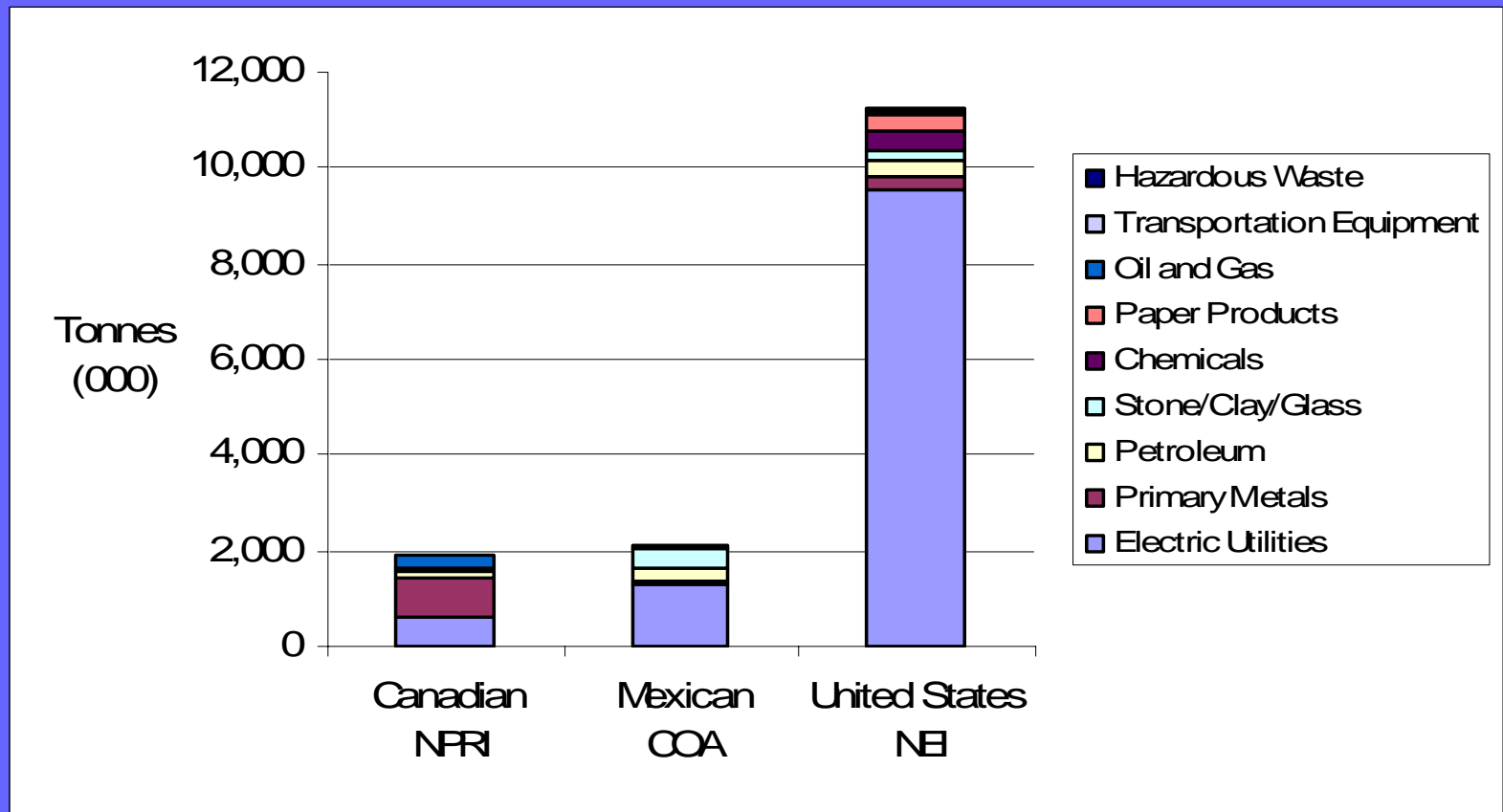
# Criteria Air Contaminants

- NPRI added reporting on criteria air contaminants for 2002
- Mexican data from *Cédula de Operación Anual* (COA)
- US data from National Emissions Inventory
- Comparable data for all three countries include:
  - Nitrogen oxides
  - Sulfur dioxide
  - Volatile organic compounds

# Nitrogen Oxides, Air Releases, 2002

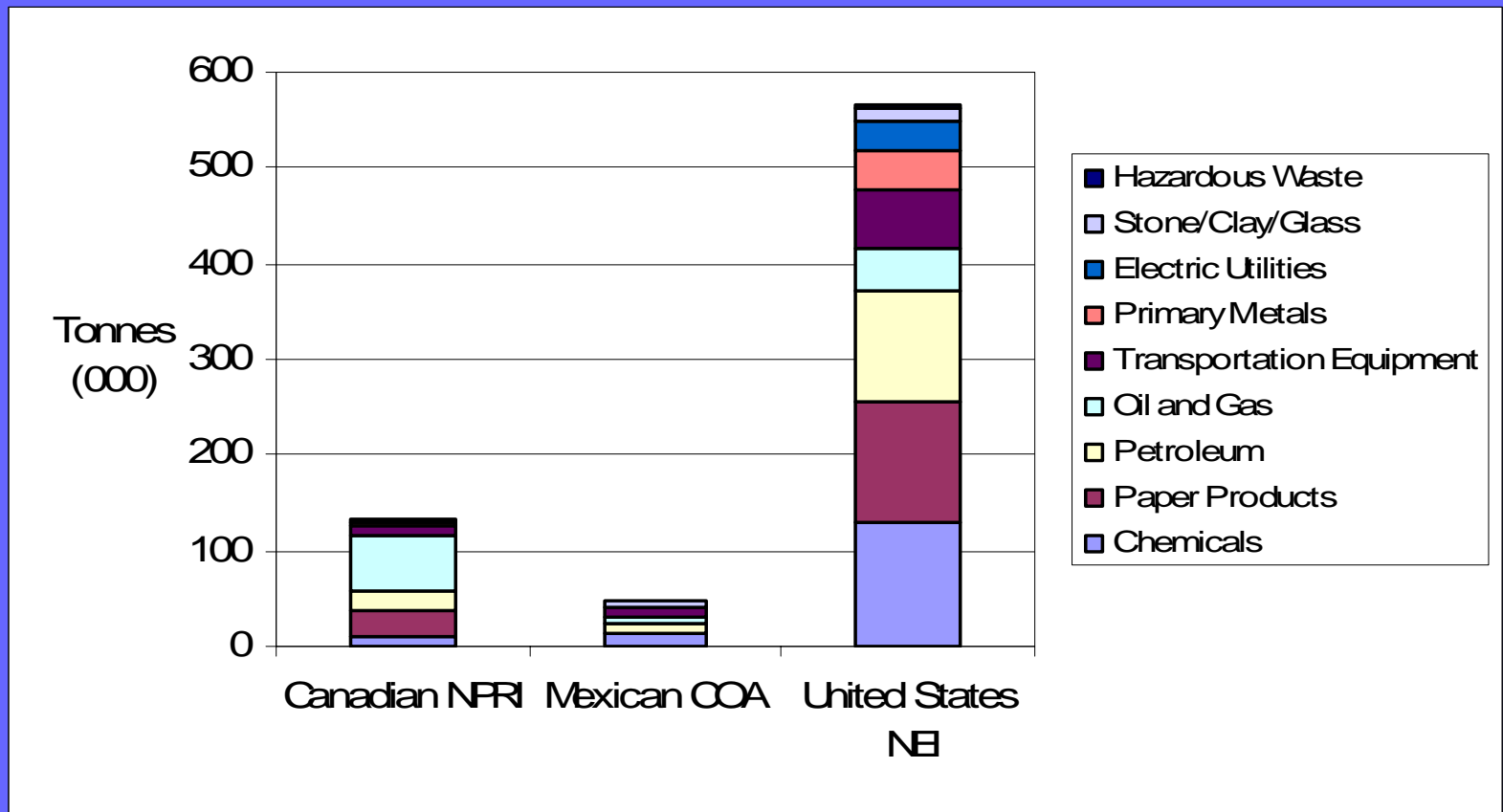


# Sulfur Dioxide, Air Releases, 2002





# Volatile Organic Compounds, Air Releases, 2002



# Available

- In published annual report
- Matched TRI and NPRI data base of toxic substances available for queries on web: [www.cec.org/takingstock/](http://www.cec.org/takingstock/)

# TAKING STOCK online

## QueryBuilder

Welcome to the Query Builder. This tool allows you to find the answers to your own questions, drawing on information in the [matched](#) Taking Stock data sets. You can create a report that shows total releases and transfers by state/province, for example, or find out what were the top 10 chemicals sent for recycling in North America in 2001. Or you can generate reports that look at facilities, industry sectors or geographic regions.

If you are looking for a particular facility, you may use the quick search box at the left.

- [Home Page](#)
- [2001 Highlights](#)
- [Query Builder](#)
- [About Taking Stock](#)
- [Resources](#)

Search for a facility



[Download the Executive Summary](#) 

[Download the Full Report](#) 

1

Choose the type of report you would like to create:

- Facility
- Industry Sector
- Country
- State/Province
- Chemical

Number of results to be displayed:

**2** Select a single year or a range of years\*:

1995  1996  1997  1998  1999  2000  2001

\* The year or range of years that you select will affect which chemicals are included in your search. Chemicals are only included in a search if they were reported to NPRI and TRI in the same way throughout a year or range of years (i.e. they are "matched"). In addition, if your search includes a year before 1998, the search will not include industry sectors added to TRI in 1998 or transfers to recycling or energy recovery. For more details about the data used in Taking Stock, see [Information on the Data Sets](#). Note: if you change your year selection here, this may automatically change selections made in Steps 3 and 4 below.

**3** Select criteria to narrow the scope of your query:

Show results for this geographic area only:

Canada & USA

Take into account all chemicals, a specific chemical or a chemical category:

All chemicals

Take into account data for the following industrial sector(s):

All sectors

**4**

Select the media you want to be included in the report:

<u>RELEASES</u>	<u>TRANSFERS</u>
<input type="checkbox"/> On-site releases	<input type="checkbox"/> Transfers to recycling
<input type="checkbox"/> On-site air emissions	<input type="checkbox"/> Transfers to recycling of metals
<input type="checkbox"/> On-site surface water discharges	<input type="checkbox"/> Transfers to recycling (except metals)
<input type="checkbox"/> On-site underground injection	<input type="checkbox"/> <b>Total other transfers for further management</b>
<input type="checkbox"/> On-site land releases	<input type="checkbox"/> Transfers to treatment (except metals)
<input type="checkbox"/> Off-site releases	<input type="checkbox"/> Transfers to sewage/POTWs (except metals)
<input type="checkbox"/> Transfers to disposal (except metals)	<input type="checkbox"/> Transfers to energy recovery (except metals)
<input type="checkbox"/> Transfers to disposal of metals	<b><u>RELEASES AND TRANSFERS</u></b>
<input type="checkbox"/> <b>Total releases (on-site and off-site)</b>	<input checked="" type="checkbox"/> <b>Total releases and transfers</b>

 Run the query



# Query Results: Facility

Year(s): 2001

Geographic area: Canada & USA











Industry: All industrial sectors

Chemical(s): [Chemicals matched for 2001](#)

Media selected: Total releases and transfers

Number of results: 10

Sorted by: 2001 Total releases and transfers, in descending order (use   arrows below to re-sort data)

Facility Name	PRTR ID	City	State/province	Country	Total releases and transfers
					2001
 1. PETRO-CHEM PROCESSING GROUP/SOLVENT DISTILLERS GROUP, NORTRU INC.	 48214PTRCH421LY	 DETROIT	 Michigan	 USA	53,845,999
 2. ASARCO INC. RAY COMPLEX/ HAYDEN SMELTER & CONCENTRATOR, AMERICAS MINING CORP.	 85235SRCNC64ASA	 HAYDEN	 Arizona	 USA	23,570,309

# Taking Stock

- Taking Stock 2002 available now
  - Matched TRI and NPRI data base for available for queries on web:  
[www.cec.org/takingstock/](http://www.cec.org/takingstock/)
- Taking Stock 2003 being prepared, published in Spring 2006
- Taking Stock 2004 under discussion at this meeting