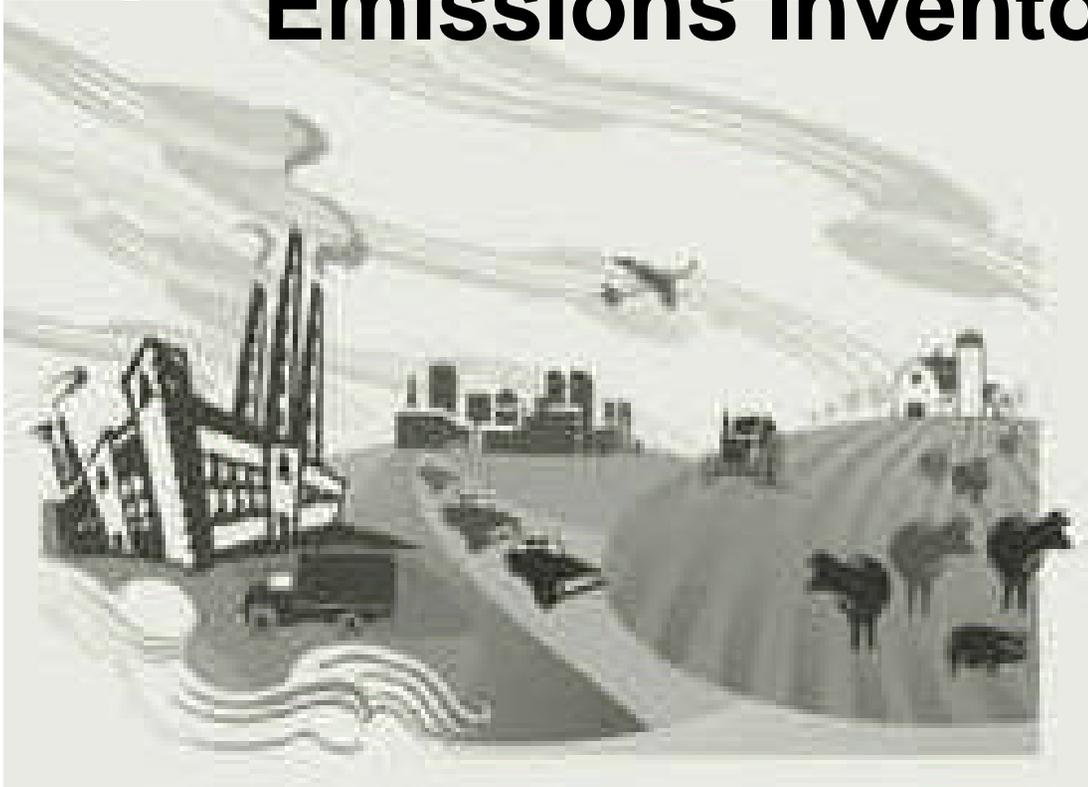


**What is an emission inventory?
What is the National Toxics
Inventory (NTI)/ National
Emissions Inventory (NEI)?**



Laurel Driver

US EPA

November 14, 2001

[What Is An Emission Inventory?]

- Current, comprehensive listing, by source, of the air pollutant emissions
- Specific geographic area
- Specific time period

General Steps in Inventory Development

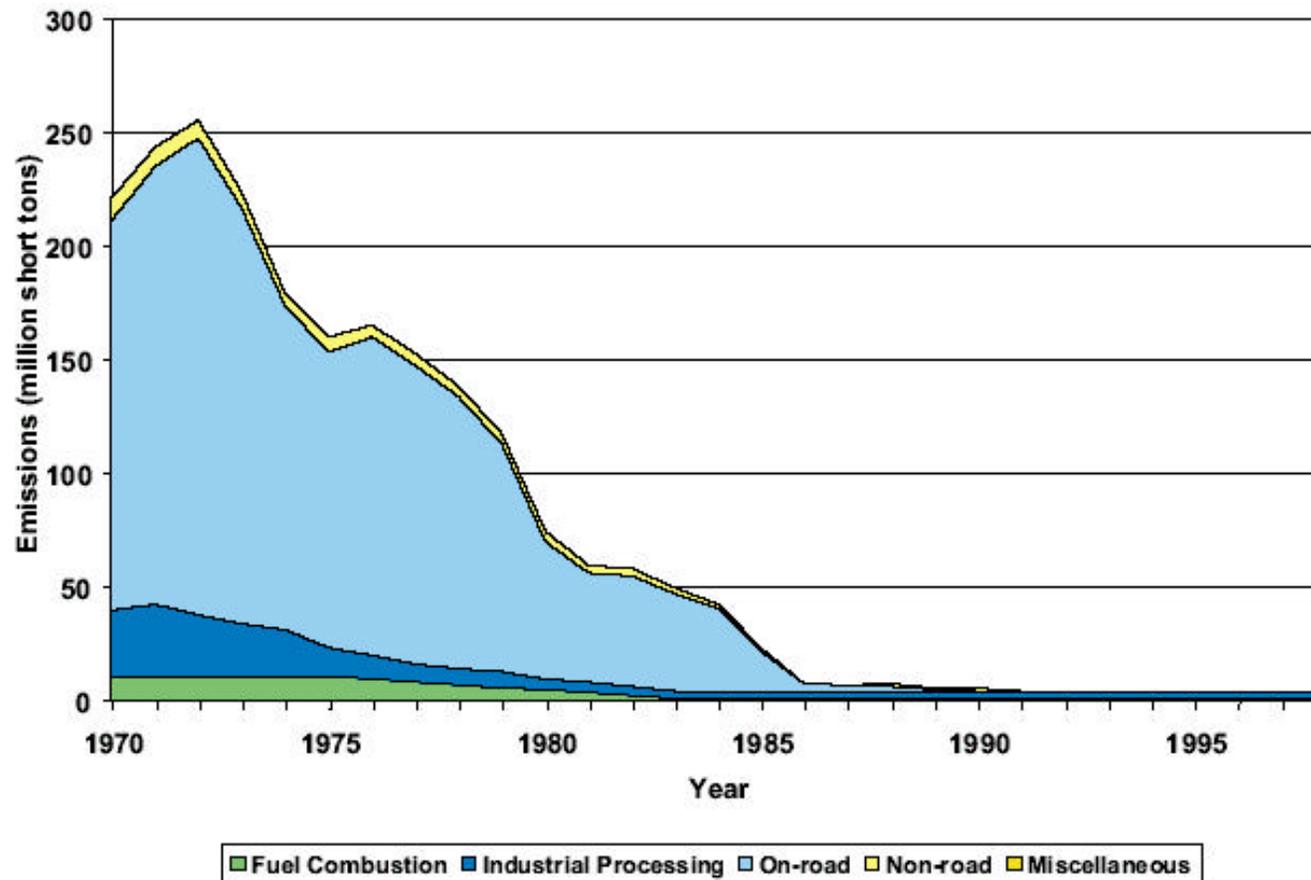
- Planning
- Data Collection
- Calculations
- Consolidation
- Documentation

Uses of Emission Inventories

- Identify sources and general emission levels
- Input for air quality modeling
- Establish trends over time
- Demonstrate goals are being met
- Trading programs
- Residual risk
- Reporting requirements

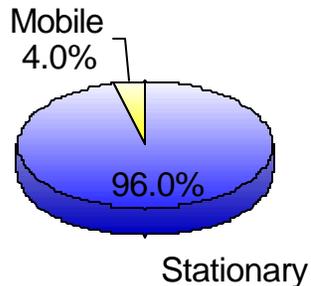
What can Emission Inventory Tell Us?

Figure 3-8. Trend in LEAD Emissions, 1970 to 1998

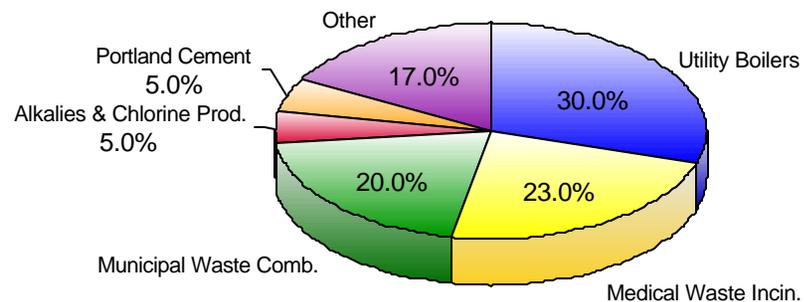


What Can the Inventory Tell Us: 1996 Mercury Emissions

Stationary & Mobile

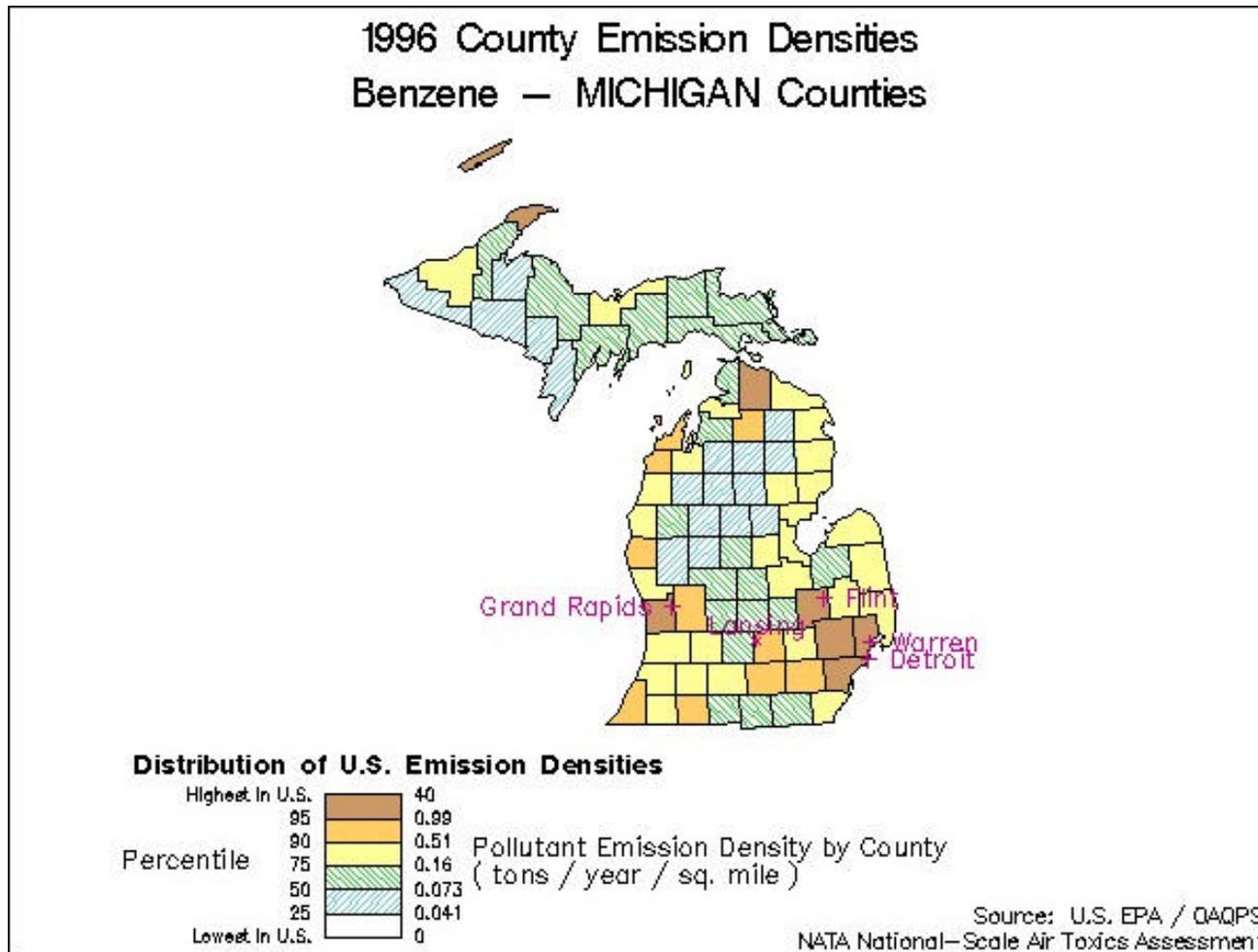


Stationary



Other: Hazardous Waste Incineration, Industrial Boilers, Pulp and Paper Production, Petroleum Refineries, Residential Heating

What can Emission Inventory tell us?



[Emission Estimation Methods]

- Continuous emission monitors
- Material balance
- Source tests
- Emission factors and activity data
- Emission estimation models

Source types: Point Sources



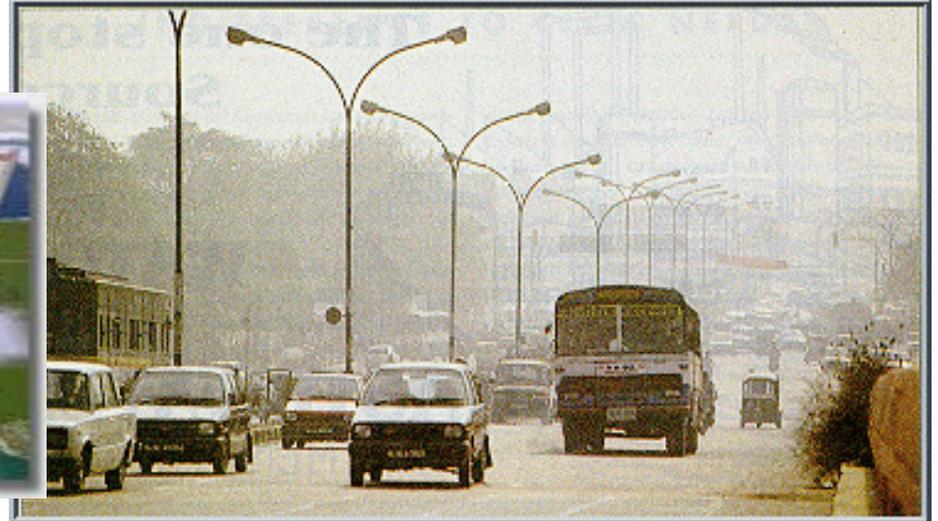
- **Known Location**
 - Process parameters
 - Emission points (stack, fugitive)
- **Data Sources**
 - State/locals
 - MACT standards
 - TRI

Source Types: Nonpoint Sources



- Too numerous or ubiquitous to locate at a point
- Data Sources
 - State and locals
 - MACT
 - EPA calculated
 - TRI

Source Type: Mobile



- Onroad
- Nonroad
 - Vehicles and equipment
 - Planes, trains, ships
- Data sources
 - States and locals
 - EPA models and methods



What can a regional/state/local agency do?

- Prioritize source sectors
- Find missing sources and delete erroneous ones
- Improve data to reflect local conditions
 - Activity
 - Allocation schemes
 - Control programs

[Where to go for ideas?]

- Clearing House for Inventories and Emission Factors (CHIEF) website <http://www.epa.gov/ttn/chief/>
 - 1996/1999 NTI/NEI documentation, Q&A
 - 1999 NEI preparation plan
 - HOTLINE 919.541.1000
 - List-serve (public forum)
- Inventory Conference April 2001
<http://www.epa.gov/ttn/chief/conferences.html>
 - Training
- Review 1999 NEI ([ftp.epa.gov/EmisInventory](ftp://ftp.epa.gov/EmisInventory))
 - Data
 - Documentation
 - Summaries

[Contact Me]

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