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# UNITED STATES TOXICS RELEASE INVENTORY

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US EPA
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## Major Events in 2001

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- Publication of 1999 Data
- Lead rule takes effect

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 Lowers reporting threshold for lead and lead compounds

- Improving Assistance to Industry
- Improving Access to the Public
- Working within UNECE on PRTR Protocol

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- 3.53 billion kilograms of releases
  - 3.31 billion kilograms of on-site releases
  - 218 million kilograms of off-site releases
- 13.4 billion kilograms of chemicals further managed as waste (on-site and off-site)
  - 3.7 billion kilograms treated
  - 1.6 billion kilograms for energy recovery
  - 4.6 billion kilograms recycled

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Second year of data from seven additional industry sectors

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 I.e., coal and metal mines, hazardous waste and solvent recovery facilities, electricity generating facilities, chemical wholesale distributors, petroleum terminals and bulk storage facilities

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Facilities that are "upstream" and "downstream"
 from manufacturing sector (original industries)

	Waste	*Original	*New	*All TRI	New Industries
T	Management	Industries	Industries	Industries	as % of All
	(On-site and				TRI Industries
	Off-site)				
	Recycled	4,534	106	4,640	2.3
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R	Energy	1,508	126	1,635	7.7
	Recovery				
	Treated	3,373	376	3,750	10.3
T	D 1 1	1.004	2.200	2 202	(7.0
	Released	1,084	2,298	3,382	67.9
	Total	10.,933	3,109	13,406	23.2
	Production				
	Related Waste				

- 1995 1999 trends for Original Industries
  - Releases decreased 7.5%
    - On-site releases decreased 15.7%
    - Off-site releases increased 51.8%
  - Total production related waste increased 2.5%
    - Off-site recycling decreased 8.8%
    - On-site recycling increased 8.1%
    - On-site treatment increased 5.3%

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• 1988 - 1999 trends for original industries and chemicals

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- Releases decreased 45.5%
  - On-site releases decreased 53.6%
    - Fugitive air releases decreased 70.6%
    - Water releases decreased 66%
    - Land releases decreased 23.1%
  - Off-site releases increased 7.8%

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- 1998 1999 trends for new industries
  - Metal mines decreased 2.5%
- Coal mines increased 11.7%
  - Electric utilities decreased 9.7%
  - Chemical wholesale distributors increased 2.2%
  - Petroleum terminals and bulk storage facilities increased 28.3%
  - Hazardous waste and Solvent recovery facilities increased 2.7%

#### PBT Chemicals - New Lead Rule

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Chemicals that are Persistent,
 Bioaccumulative and Toxic (PBT)

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- Reporting for 2000 reporting year
  - Reports due to EPA on 1 July, 2001

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- 100 lb threshold established for PBT chemicals
- 10 lb threshold for subset of PBT chemicals
- 0.1 gram threshold set for dioxins and dioxinlike compounds

#### PBT Chemicals - New Lead Rule

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- Lead rule
  - Effective for reporting year 2001
    - Reports due to EPA on 1 July, 2002
  - Lowers Reporting threshold to 100 pounds (45.4 kilograms)
    - Except for lead contained in stainless steel, brass, and bronze alloys

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 16 chemical-specific guidance documents now available

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- Five PBT guidance documents
  - New draft guidance for lead and lead compounds
- Eleven guidance documents for other chemicals
- Available on the web at www.epa.gov/tri

14 industry-specific guidance documents now available

- Available on the web at www.epa.gov/tri

– 10 additional documents under development

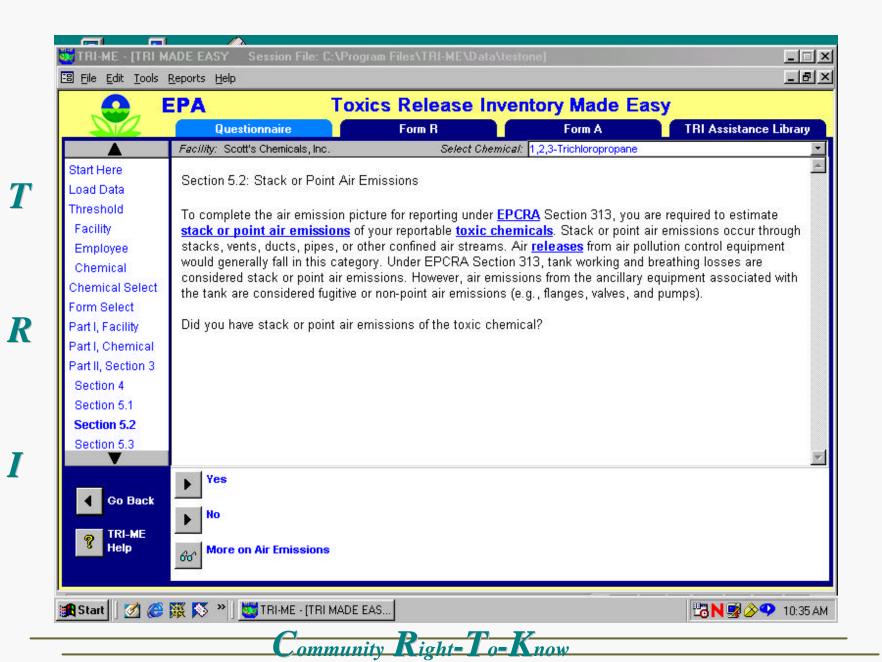
 New guidance on presswood and laminated products industry available

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• TRI - Made Easy (TRI-ME)

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- Interactive, intelligent and user-friendly software program to assist facilities in determining and completing TRI reporting
- Assists facility to determine it it must report
- Automatically sets up necessary TRI reports
- Guide facility through reporting process through series of questions



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- Future versions of TRI-ME
  - Add release calculation capabilities
    - E.g., integrate TANKS software for estimating air releases from tanks
  - More enhanced intelligence to prevent errors
  - Ability to pre-load or import chemical data for use in determining if chemical thresholds met
  - Links to other databases

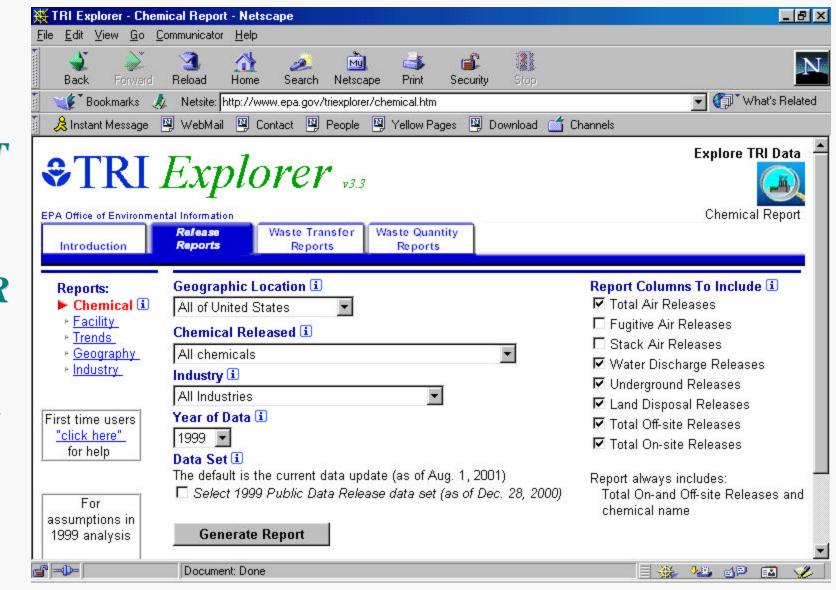
## Improving Access to the Public

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#### TRI Explorer

- TRI search engine on U.S. EPA website
  - www.epa.gov/triexplorer
- Generates three types of reports
  - Release reports, waste transfer reports, waste quantity reports
- Data grouped into five criteria
  - facility, chemical, year, industry type, geographic area (zip code, county, state, national)





#### International

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#### PRTR Protocol

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- United Nations Economic Commission for Europe (UN/ECE) negotiating international instrument on PRTRs
  - Protocol may be open to countries that have not signed onto Aarhus Convention and to countries outside of UN/ECE
  - U.S. has participated in three meetings of UN/ECE Working Group on PRTRs