



Toxics Release Training Course

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Course Outline

- Intro to TRI
- Supplemental Data Along Side TRI Data
- Chemical Qualifiers and Categories
- Data Quality
- 5 Minute Break?
- Data Access and Tools
- Pollution Prevention (P2) Tool

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Toxics Release Inventory (TRI) Program

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What Can You Do With TRI Data?
 Take a look at how TRI data are being used in the community, the classroom, and the factory.

1 2 3

Reporting Pollution Prevention to TRI

Reporting Pollution Prevention to TRI

- Get Involved in the TRI Program
- Checkout the TRI Website Map and Recent TRI Program News



About the TRI Program

- [Factors to Consider When Using TRI](#)
- [Compliance and Enforcement](#)
- [International TRI](#)
- [TRI University Challenge](#)



TRI Resources

- [Pollution Prevention \(P2\) Data](#)
- [Tools for TRI Data Analysis](#)
- [TRI for Communities](#)
- [2013 National Analysis Report](#)



Annual Reporting For Facilities

- [Determine if Your Facility Must Report](#)
- [Training on TRI Reporting](#)
- [Log in to TRI-MEweb/CDX](#)
- [Access TRI-MEweb Resources](#)



Supplemental Data Available / or used with TRI Data and Tools

- TRI program does not own nor control the following data elements:
 - Latitude / Longitude
 - Included with most TRI tools, used in performing spatial analyses
 - RCRA ID
 - Used with double counting algorithm in TRI Explorer and TRI.Net
 - Greenhouse Gas Facility ID
 - Included in P2 and TRI.Net tools
 - Large Aquatic Ecosystems (LAE) boundary definition
 - Used for filter
 - Boundaries for Indian Country
 - Used to filter facilities outside but within 10 miles of IC
 - Boundaries for: Census Tract, Metropolitan Areas, Watersheds, School District
 - Used for filters



Chemical Qualifiers and Categories

- Some TRI listed chemicals include qualifiers
 - Example Zinc (fume or dust)
- Metal Compounds and Nitrate Compounds - Section B5 of Reporting Instructions
 - When determining if a facility meets threshold quantities, the total weight of the metal compound or nitrate compound is used
 - When reporting release and other waste management quantities only the parent metal or nitrate portion of the compound is reported
 - A metal may be reported under the metal compound category in certain situations
 - Point to know – Calculations to determine IF a facility exceeds thresholds and must report under TRI differ in some aspects from the calculations to determine WHAT a facility reports under TRI



- Aids to Facilities Prior and During Submission of TRI reports
 - Online Training at TRI Web Site under “Annual Reporting for Facilities” (2hr basic course and 1 hr advanced course)
 - Live phone assistance – TRI Information Center
 - (800) 424-9346 - select option #3 from menu
 - (703) 412-9810 - Wash., D.C. metro area
 - Clarification of TRI regulations, reporting requirements, and guidance
 - Assistance in completing TRI forms
 - Locating, understanding, and using data in TRI Explorer, TRI.NET, Envirofacts, etc.
 - TRI-MEweb – Online TRI reporting application
 - Provides online assistance to properly report quantities
 - Include data quality checks
 - Provides alerts to facility on potential errors

- Example of some EPA analyses to identify potential errors in submitted data
 - Facilities that reported a large change in disposal or other release and/or other waste management quantities for certain chemicals of concern (with a focus on air and water releases),
 - Facilities that have potential errors in reporting dioxin and dioxin-like compounds,
 - Facilities that transmitted but failed to certify their reports,
 - Facilities that reported large quantities of volatile organic chemicals on-site but reported small quantities of air releases,
 - Facilities that reported the same quantities on multiple sections of the reporting Form R for more than 2 years, and
 - Facilities that reported significantly different data to other EPA programs

- Error Correction
 - EPA notifies facility of suspected error
 - Facility may provide explanation for values submitted
 - Facility may resubmit corrected TRI forms
 - TRI facilities may submit a new form, submit a corrected form or withdraw a TRI form at any time and for any reporting year.
 - Regional office may investigate further
 - EPA does NOT have the authority alter TRI data which has been submitted and certified by a facility.



TRI Data Access and Tools

www2.epa.gov/toxics-release-inventory-tri-program/tri-data-and-tools

Home Links | Howstuffworks Com... | Google | EHRI Electronic Offic... | MyWorkplace | TRI National Analy...

Learn the Issues | Science & Technology | Laws & Regulations | About EPA | Search EPA.gov

Toxics Release Inventory (TRI) Program







TRI Home
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TRI Resources
TRI Data and Tools
Reporting for Facilities
TRI Chemicals
Laws and Rulemakings
Get Involved in TRI
TRI Contacts
Site Map

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TRI Data and Tools

You are here: EPA Home » Toxics Release Inventory (TRI) Program » TRI Data and Tools

The TRI Program tracks the management of toxic chemicals that may pose a threat to human health and the environment. Facilities in certain industry sectors report annually the volume of toxic chemicals managed as waste--recycled, treated or burned for energy recovery--as well as disposed of or otherwise released into the environment. Select an option below to view TRI data.

 TRI National Analysis website : Maps, charts, and tables highlight annual, national-level data, while factsheets detail specific geographic areas.	 TRI Explorer : Access the most commonly requested TRI information. Search by chemical or facility releases, waste management, or waste transfers.
 TRI Pollution Prevention (P2) Tool : Explore and compare facility and parent company information on the management of toxic chemical waste.	 Envirofacts : Find all publicly available TRI data in a searchable, downloadable format. Multiple search options available.
 myRTK : Find summary-level facility information, including chemical releases, pollution prevention activities, and compliance history. Provided in English and Spanish.	 TRI.NET : Build customized TRI data queries and map results or overlay other data layers with this desktop application.

More Information to Help You Use TRI Data

[Download](#) | [Tools With TRI Data](#) | [Data Dictionary](#) | [Data Help Center](#)



TRI Data Access and Tools

- Bulk Data Access
 - RESTful data service API
 - Loads data directly into an application or Web mash-up
 - Downloadable files
 - Basic – Most frequently requested data elements
 - » One file per reporting year
 - » By individual state or all U.S.
 - Basic Plus – All data elements on the submission forms
 - » Seven files per reporting year
 - » By entire U.S.



TRI Data Access and Tools

- MyRTK
 - Designed for mobile devices as a Web application
 - Displays location of TRI, and some CAA, CWA, RCRA facilities
 - Release / transfer data at facility-level only
- TRI Explorer
 - Facility-level and aggregated data across multiple facilities
 - Results by: chemical, facility, geography, or industry
 - Multiple filter options
 - Drill down capability
 - Generous linkage to supporting / explanatory information
- TRI.Net
 - High-performance downloadable desktop application
 - Highly-customized queries
 - Ad hoc capabilities – user can modify SQL script
 - Radius search feature from a location
 - Mapping with additional EJ data
 - Assumes user is knowledgeable about TRI data and reporting changes over life of TRI Program



TRI Data Access and Tools

- Envirofacts
 - **TRI Search**
 - Results contains summary and detailed level data for an individual facility over entire reporting history
 - **TRI Form R Search**
 - Results appears as an individual chemical submission
 - **TRI Form R and A Download**
 - Results for multiple facilities, selection by reporting form data elements
 - **TRI EZ**
 - Simpler of 2 customized queries
 - **TRI Customized**
 - Maximum query options to all TRI data elements



TRI Data Access and Tools MyRTK

The collage shows five overlapping mobile device screens displaying the MyRTK website interface. The screens are arranged from left to right, showing different views of the application:

- Screen 1 (Map):** Shows a map of the Traverse City area with several blue location pins. The map includes labels for 'Sleeping Bear Dunes National Lakeshore', 'Traverse City State Forest Area', and 'Kingsley'. The interface includes a search bar and navigation icons for 'Map', 'List', and 'Search'.
- Screen 2 (Facility List):** Displays a 'List of 62 Facilities on the' page. It lists several facilities with their distances and pounds released:
 - CORNILLIE CONCRETE PLAN:** 9.9 miles, Pounds Released: 0
 - SARA LEE BAKERY:** 10.2 miles, Pounds Released: 17722
 - TEXTRON CONE DRIVE:** 10.8 miles, Pounds Released: 0
 - GRAND TRAVERSE OVERALL:** 11.0 miles
 - LEAR CORP:** 11.1 miles, Pounds Released: 3262
- Screen 3 (Reports):** Shows 'ON SITE RELEASES - BY CHEMICAL (lbs)'. It lists various chemicals with their release amounts:
 - HYDROCHLORIC ACID (1995 AND AFTER "ACID AEROSOLS" ONLY): 244288
 - METHANOL: 162986
 - SULFURIC ACID (1994 AND AFTER "ACID AEROSOLS" ONLY): 54304
 - ACETALDEHYDE: 38331
 - PHENOL: 19605
 - NITRATE COMPOUNDS: 12533
 - BENZENE: 9461
 - FORMALDEHYDE: 8807
 - MANGANESE COMPOUNDS: 6149
 - AMMONIA: 1948
- Screen 4 (Compliance):** Displays 'COMPLIANCE' information for a facility. It shows 'Facility has permits/records for' with checkmarks for 'Air' and 'Water'. It also shows a '3 Year Compliance Status (quarterly)' bar chart and 'Last Full Inspection: Formal Enforcement Actions (5yr):'. A 'Feedback' button is visible.
- Screen 5 (Information):** Provides information about MyRTK: 'myRTK is an EPA website designed for mobile devices. For any address, the map displays nearby facilities regulated under federal environmental laws (see Explanations for more detail). Facility reports provide summaries of chemical/pollutant releases, chemical effects, and compliance history from numerous data systems.' It includes a 'Feedback' button and a 'Map Legend' section.



TRI Data Access and Tools

TRI Explorer

TRI Explorer
 You are here: EPA Home » TRI » TRI Explorer » Release Reports - Release Chemical Report

Release Reports

State Fact Sheet | Release Reports | Waste Transfer Reports | Waste Quantity Reports

Chemical | Facility | Federal Facility | Trends | Geography

Release Chemical Report

This site uses pop-up windows, click here for help on allowing pop-ups from this site

Year of Data 2010

Geographic Location All of United States

Chemical All chemicals

Industry All Industries

Data Set The default is the current data update (as of March 2012).
 Select 2010 National Analysis data set (released to the public in October 2010)

Report columns to include

Total On-site Disposal or Other Releases
 Details
 On-Site Disposal to Class I Wells, RCRA
 Subtitle C Landfills, and Other On-Site Landfills
 Other On-Site Disposal or Other Releases

Total Releases
 CAS

Generate Report

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), for All industries, for All chemicals, U.S. , 2010

Row #	Chemical	Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
1	1,1,1,2-TETRACHLORO-2-FLUOROETHANE	0	0	0
2	1,1,1,2-TETRACHLOROETHANE	3,527	38	3,565
3	1,1,1-TRICHLOROETHANE	84,482	3,421	87,903
4	1,1,2,2-TETRACHLORO-1-FLUOROETHANE	0	0	0
5	1,1,2,2-TETRACHLOROETHANE	4,413	134	4,547
6	1,1,2-TRICHLOROETHANE	19,293	541	19,834
7	1,1-DICHLORO-1-FLUOROETHANE	116,705	12	116,717
8	1,1-DIMETHYL HYDRAZINE	3	3	11
9	1,2,3-TRICHLOROPROPANE	3,500	3	3,503
10	1,1,1-TRICHLOROETHENE	9,205	0	9,205
				5,854,421

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), Trend Report for facilities in All industries, for 1988 Core Chemicals, U.S. 1988-2010

Are year to year changes comparable?

Row #	Year	Fugitive Air	Stack Air	Total Air Emissions	Surface Water Discharges	Underground Injection Class I Wells	Underground Injection Class II-V Wells	Total Underground Injection	RCRA Subtitle C Landfills	Other Landfills	Total Landfills
1	1988	637,263,533	1,398,972,311	2,036,235,844	41,572,731	.	.	161,652,002	.	.	164,930,029
2	1989	588,631,245	1,309,312,261	1,897,943,506	34,331,627	.	.	157,528,565	.	.	149,367,762
3	1990	521,201,038	1,168,857,469	1,690,058,507	31,151,076	.	.	158,241,476	.	.	130,408,633
4	1991	462,698,425	1,033,018,402	1,495,716,827	31,729,784	.	.	139,315,684	.	.	123,747,014
5	1992	405,829,779	1,002,798,810	1,408,628,589	28,017,366	.	.	120,989,729	.	.	97,627,845
6	1993	346,679,643	891,914,912	1,238,594,555	18,771,102	.	.	112,947,443	.	.	85,288,894
7	1994	324,534,703	883,228,674	1,207,763,377	18,940,410	.	.	113,638,116	.	.	74,564,204
8	1995	280,935,142	851,894,728	1,132,829,870	16,962,799	.	.	153,973,323	.	.	79,734,790



TRI Data Access and Tools Envirofacts

The screenshot shows the Envirofacts website interface. At the top, a navigation bar includes links for Home, Multisystem Search, Topic Searches, System Data Searches, About the Data, Data Downloads, Widgets, Services, Mobile, and Other Datasets. The 'Services' link is highlighted with a red box. Below the navigation bar, the main content area features the 'Envirofacts' logo and the tagline 'Your one-stop source for Environmental Information'. A search box is present with the prompt 'Enter a location such as address, zip, city, county, waterbody, park name, etc.' and an 'Advanced' link. To the right, a 'Topic Searches' section contains icons for Air, Land, Water, Waste, Toxics, Radiation, Facility, Compliance, and Other. The 'Toxics' icon is highlighted with a red box. Below this, the 'Envirofacts System Data Searches' section lists various data sources, including AFS, BR, CERCLIS, ECHO/IDEA, FRS, ICIS, ICR, IGMS, Local Information, PCS, RADInfo, RadNet, RCRInfo, SDWIS, SRS, TSCA, and UV Index. A 'Multisystem Search' button is also visible. In the bottom right, a 'TRI' section lists options like Customized, EZ, Form R, Form R & A Download, State Reports, and TRI Explorer, which is highlighted with a red box. At the bottom, the 'Other Sites of Interest' section includes links for Geospatial Download, EnviroMapper, MyEnvironment, and TRI Explorer, with the latter highlighted by a red box.



- TRI Information Center (800) 424-9346 or DC Area Local (703) 412-9810
 - Monday - Friday 10:00 a.m. - 5:00 p.m. Eastern Time Closed Federal Holidays
 - [Emergency Planning and Community Right-to-Know Act](#) (EPCRA), including the [Toxics Release Inventory](#) (TRI) program
 - [Risk Management Program](#) regulations under the Clean Air Act (CAA)
 - [Comprehensive Environmental Response, Compensation, and Liability Act](#) (CERCLA or Superfund)
 - [Oil pollution prevention regulations](#), including Spill Prevention, Control & Countermeasure (SPCC) Plan and Facility Response Plan (FRP) regulations, under the Clean Water Act (CWA) and the Oil Pollution Act (OPA)
- Automated FAQs
 - [Information Center Monthly Reports](#)
 - [EPCRA Frequent Questions](#)
 - [TRI Frequent Questions](#)
 - [RMP Frequent Questions](#)
 - [Superfund Frequent Questions](#)
 - [SPCC and FRP Frequent Questions](#)
- TRI Program Division, EPA Headquarters (202) 566-1415
 - tri.help@epa.gov
- Help on Tool Usage – Envirofacts and TRI Explorer
 - « Contact us link near top of window



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