

## Exercise

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### Overview

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Tools are available to access data about industrial facility emissions to air, water and land from the federally mandated Toxics Release Inventory (TRI). These resources provide information on the chemicals, volume and changes in emission over time.

### Objectives

1. Access electronic resources to find TRI information.
2. Discuss why this information is important.
3. Demonstrate the use these resources to:
  - ❑ identify an emission from a local source,
  - ❑ Identify the effects if any these emissions would have on your community, and
  - ❑ determine if the industry is acting to reduce emissions.

### Facilitator Information

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Time Requirement: 1.5 hours

Number of Instructors: 1-2

Format: Small Group Activity

### **Resources**

- ❑ Participant manual
- ❑ Tutorials at: <https://sites.google.com/site/ejinfotnstate/>
- ❑ Downloaded 'help' resources for each tool to be used

- ❑ Laptops or tablet computers. EPA recommends using Google Chrome to access the tools.
- ❑ Easels and easel paper or marker board to record feedback
- ❑ SDS dictionary or other glossary (such as from the MWC website) for each small group
- ❑ Locally useful handout (to be prepared by the facilitator prior to the session) showing several screens that supplement the participant manual

## Preparation

Preparation requires 2 to 3 hours and includes:

- ❑ Read through 'About TRI' and 'TRI Information for You' at <http://www2.epa.gov/toxics-release-inventory-tri-program>
- ❑ Work through the TRI Explorer and TRI.NET tutorials at <https://sites.google.com/site/ejinfotnstate/>.
- ❑ Work through the participant exercise using a county of interest to you. Expand columns in the data shown to become familiar with embedded fields.

For example, the first screen for TRI Explorer:

Releases: Chemical Report | TRI Explorer | US EPA - Google Chrome

iaspub.epa.gov/triexplorer/release\_chem?p\_view=COCH&trilib=TRIQ1&sort=\_VIEW\_&sort\_fmt=1&state=39&county=39061&chemical=All+chemicals&industry=ALL&year=2012&tab\_rpt=1&fid=RELLB

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Advanced Search SEARCH

TRI Explorer  
You are here: EPA Home > TRI > TRI Explorer > Releases: Chemical Report

Releases: Chemical Report

Detail columns are collapsed by default. Click the [icon] icon to view additional columns. Use your Browser back feature to collapse

Data Source: 2012 Data Update released March 2014

See Note [icon] Instructions for printing wide reports

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), for All industries, for All chemicals, Hamilton County, Ohio, 2012

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	1,2,4-TRICHLOROBENZENE	6,330	250	6,580
2	1,2,4-TRIMETHYLBENZENE	2,230		2,230
3	1,3-BUTADIENE	3,913		3,913
4	3,3'-DICHLOROBENZIDINE DIHYDROCHLORIDE	1		1
5	3-iodo-2-propyl nyl butyl carbamate	0		0
6	4,4'-isopropylidenediphenol			
7	4,4'-methylenebis(2-chloroaniline)	5		5
8	ACETALDEHYDE	1,356		1,356
9	ACETONITRILE	1,026	250	1,276
10	ACRYLONITRILE	9,820		9,820
11	ALUMINUM (FUME OR DUST)	0		0
12	AMMONIA	139,696	5,124	144,820
13	ANTIMONY			
14	ANTIMONY COMPOUNDS			
15	ARSENIC COMPOUNDS	10,923	9,223	20,146
16	BARIUM COMPOUNDS	220,746	104,268	325,014
17	BENZENE	18,043	0	18,043

## Expanded on-site fields:

Releases: Chemical Report | TRI Explorer | US EPA - Google Chrome  
 iaspub.epa.gov/triexplorer/release\_chem?p\_view=COCH&trilb=TRIQL&sort=\_VIEW\_&sort\_fmt=1&state=39&county=39061&chemical=All+chemicals&industry=ALL&year=2012&tab\_rpt=1&fld=RELLB

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Releases: Chemical Report

Detail columns are collapsed by default. Click the icon to view additional columns. Use your Browser back feature to collapse.

Data Source: 2012 Data Update released March 2014

See Note: [Get the New Reports](#) [Instructions for printing single reports](#)

TRI On-site and Off-site Reported Disposed of or Otherwise Released (in pounds), for All industries, for All chemicals, Hamilton County, Ohio, 2012

Row #	Chemical	On-site Disposal to Class I Underground Injection Wells, RCRA Subtitle C Landfills, and Other Landfills				Total On-site Disposal or Other Releases	Total Off-site Disposal or Other Releases	Total On- and Off-site Disposal or Other Releases
		Underground Injection Class I Wells	RCRA Subtitle C Landfills	Other On-Site Landfills	Sub Total			
1	1,2,4-TRICHLORO BENZENE	0	0	0	0	6,330	250	6,580
2	1,2,4-TRIMETHYLBENZENE	0	0	0	0	2,230		2,230
3	1,3-BUTADIENE	0	0	0	0	3,913		3,913
4	1,3-DICHLOROBENZENE DIHYDROCHLORIDE	0	0	0	0	1		1
5	3-IODO-2-PROPYNYL BUTYL CARBAMATE	0	0	0	0	0		0
6	4,4'-ISOPROPYLDENEDIPHENOL							
7	4,4'-METHYLENES(2-CHLOROANILINE)	0	0	0	0	5		5
8	ACETALDEHYDE	0	0	0	0	1,356		1,356
9	ACETONITRILE	0	0	0	0	1,026	250	1,276
10	ACRYLONITRILE	0	0	0	0	9,820		9,820
11	ALUMINUM (FUME OR DUST)	0	0	0	0	0		0
12	AMMONIA	0	0	0	0	139,696	5,124	144,820
13	ANTIMONY							
14	ANTIMONY COMPOUNDS							

Prepare locally-relevant screen shots if you know the interest of the group(s) or use screen shots of the example you worked through in preparing for the program. Up to 15 slides should be sufficient to provide guidance; create a handout or refer participants to the tutorials.

## Presentation of the Exercise

Provide an overview of the website, using local zip code or county identifiers (prepared in advance).

Have participants use classroom laptops or notebooks to access the site. Use Google Chrome for best results.

Facilitate a discussion to determine what participants would like to learn about emissions in their county or state. List these information needs on the easel paper and post.

Review the three parts of the Worksheet. As appropriate, break class into groups of 3-4 based on interest area. Depending on the number of participants and devices, each member of a group of three could access a different resource, or a group can do each

one. Ask 1 participant in each group to be the recorder for the discussion. Agree on assignment for each group.

The groups should work for about 30 minutes getting familiar with the site, and finding information. Complete the Worksheet as the information is found.

Take a 10 minute break.

Facilitate a discussion during the report back. Refer to the posting of information that participants wanted to find, and identify if there are still needs. Use your knowledge of the website (and MyEnvironment) to indicate where answers may be found.

Make notes of feedback on how to improve this exercise.

Specifically,

Acronyms not familiar to participants

Terms that should be defined

Time constraints of the exercise

Items you were not able to answer

Additional discussion questions that may be included at the end of the exercise

Other

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