



Toxics Release Inventory (TRI) Reporting Changes for 2014

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March 2015

Note: *This webinar will begin at 2 pm EST.*



Overview and Objectives

- The Office of Management and Budget (OMB) approved TRI's new [Information Collection Request \(ICR\)](#) on November 24, 2014
- The new ICR includes several changes to the TRI reporting forms and instructions effective for Reporting Year 2014 (reports due **July 1, 2015**)
- This webinar will show you how to complete the new and modified form elements using TRI-MEweb
- You will also see how the new information will be shared with TRI data users in the [TRI Pollution Prevention Tool](#)



Illustration of Form Changes, Part I

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE

		A. Total Release (pounds/year*) (Enter a range code** or estimate)	B. Basis of Estimate (Enter code)	C. Percent from Stormwater
5.1	Fugitive or non-point air emissions	NA <input type="checkbox"/>		
5.2	Stack or point air emissions	NA <input type="checkbox"/>		
5.3	Discharges to receiving streams or water bodies (Enter one name per box)	NA <input type="checkbox"/>		
	Stream or Water Body Name	Reach Code (optional)		
5.3.1	Tombigbee River	03160203000031	25	0
5.3.2				

		NA	A. Total Release (pounds/year*) (Enter a range code** or estimate)	B. Basis of Estimate (Enter code)
5.4-5.5	Disposal to land on-site			
5.4.1	Class I Underground Injection Wells	<input type="checkbox"/>		
5.4.2	Class II-V Underground Injection Wells	<input type="checkbox"/>		
5.5.1A	RCRA Subtitle C landfills	<input type="checkbox"/>		



Illustration of Form Changes, Part II

SECTION 8. SOURCE REDUCTION AND WASTE MANAGEMENT		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1 – 8.7 Production-Related Waste Managed					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1b	Total other on-site disposal or other releases				
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills				
8.1d	Total other off-site disposal or other releases				
8.2	Quantity used for energy recovery on-site				
8.3	Quantity used for energy recovery off-site				
8.4	Quantity recycled on-site				
8.5	Quantity recycled off-site				
8.6	Quantity treated on-site				
8.7	Quantity treated off-site				
8.8	Non -production-related waste managed**				
8.9	<input type="checkbox"/> Production ratio or <input checked="" type="checkbox"/> Activity ratio (select one and enter value to right)		1.2		



Illustration of Form Changes, Part III

8.10	Did your facility engage in any newly implemented source reduction activities for this chemical during the reporting year? If so, complete the following section; if not, check NA. NA <input type="checkbox"/>				
	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			Estimated annual reduction (Enter code (s)) (optional)
8.10.1	W42	a. T02	b.	c.	d. R6 [>0% but <5%]
8.10.2		a.	b.	c.	d.
8.10.3		a.	b.	c.	d.
8.10.4		a.	b.	c.	d.

Section 8.11: If you wish to submit additional optional information on source reduction, recycling, or pollution control activities, provide it here.

Topic	Comment
Waste Treatment	Implemented a denitrification project in the activated sludge process at our industrial wastewater treatment plant resulting in a significant reduction of this chemical in our effluent.

Section 9.1: If you wish to submit any miscellaneous, additional, or optional information regarding your Form R submission, provide it here.

Topic	Comment
Changes in Production Levels	Overall production has increased due to increased sales



Demo of Changes in TRI-MEweb

TRI-ME_{WEB} Logged in as: TUTORIAL_1, Test Facility Preferences Save Close

Welcome | My Facilities | Prepare | Validate | Transmit | Review | eFDP CDX Helpdesk Chat

Welcome | Do I Need to Report? | Introduction | Important Information for RY 2014 | TRI-MEweb Enhancements

Welcome to TRI-MEweb!

NEW Alert! EPA published an [Information Collection Request Renewal](#) effective for RY 2014 that included several modifications to the TRI reporting forms and provided a new mechanism through which facilities can submit optional facility-level information to EPA (e.g., contact changes or facility closures). TRI-MEweb has been modified to reflect these changes and will display a **NEW** icon that you can mouse-over for additional information next to each new feature.

This Web-based application will help you create, correct, certify and transmit your TRI Form(s) to comply with EPCRA Section 313 reporting requirements. The deadline for Reporting Year (or calendar year) 2014 TRI Forms is July 1, 2015.

The following table provides you quick access to RY 1991-2014 chemical forms for each facility.

Manage My Facilities

To add a new TRI form or to access forms in progress, click the (+) sign adjacent to the TRIFID of your facility and click the "Add Blank Form(s)" hyperlink or click the **Prepare** tab.

TRIFID	Facility Name	RY2014 Form Status	ESA Status	Refresh ESA Status
+ 31904CLMBSZEBRA	Zebra Test Facility Oak Lane Hyattsville, MD 20781	1 in progress	Active Certifying Official Available	

The certifier status above was last updated on 02/25/2015 04:52PM EST.



Reach Codes for Water Releases

Welcome My Facilities Prepare Validate Transmit Review eFDP

Select Year | Select Facility | Forms | Chemical Info | **On-site Release/Disposal** | On-site Waste Mgmt | Off-site Transfer | Source Reduction/Recycling | Misc Info | Summary

Discharges to Surface Waters: Add Discharge

(Form R, Part II, Section 5.3)

Hover on the **NEW** icon to find out more about the new reporting element for RY 2014

Please navigate the map shown on the right to locate the receiving stream or water body to which the chemical was released. This facility has been centered on the map upon its initial display. A pushpin will appear on the map after left-clicking on a location to indicate the selected stream or water body. If necessary, you may click **Recenter map** to recenter the map on the facility. You must also select a basis of estimate code. If the total quantity is less than 1,000 pounds you may instead select a range code from the codes provided. Lastly, the amount of this toxic chemical from stormwater should be reported as a weight percent, if applicable.

Step 1: Stream or Water Body Name:

NEW **Reach Code (optional):**

Exclude Reach Code from Form R

[Learn More](#)

[Can't find or identify your stream or water body on the map?](#)

Step 2: Total Quantity: (pounds)

- or -

Range Code:

Step 3: Basis of Estimate:

Step 4: % From Stormwater: N/A

[Cancel](#)



Left-click on mouse to display pin on map



US EPA Office of Water | Esri, HERE, DeLorme, METI/NASA, USGS

NEW Left-click on the map to select your water body.

[Recenter Map](#)



Production or Activity Ratio

TRI-ME WEB Logged in as: TUTORIAL_1, Test Facility Preferences Save Close

Welcome My Facilities **Prepare** Validate Transmit Review eFDP CDX Helpdesk Chat

Select Year | Select Facility | Forms | Chemical Info | On-site Release/Disposal | On-site Waste Mgmt | Off-site Transfer | **Source Reduction/Recycling** | Misc Info | Summary

Production Ratio or Activity Ratio

(Form R, Part II, Section 8.9)

Test Facility Cambridge, MA
0213WZBRTS55WHE
2014 Form R for Benzene

Hover on the  icon to find out more about the new reporting element for RY 2014

Enter a production or activity ratio. This is a ratio comparing current and prior year values for the variable(s) that best reflect the output or outcome of the process(es) in which the EPCRA Section 313 chemical is involved (see [sample industry-specific variables](#)). This ratio puts year-to-year changes in quantities released and managed as waste into the context of production (i.e., have releases increased more than production increased?).

If you did not manufacture, process, or otherwise use the reported TRI chemical during the prior reporting year, check the "Not Applicable" box provided.

Not Applicable

Example Calculation:
EPCRA Section 313 chemical used in the manufacture of refrigerators.

- Refrigerators manufactured by the facility in 2014 = 1000
- Refrigerators manufactured by the facility in 2013 = 800

Production ratio equals $1000/800 = 1.25$

Note: this is reported as a ratio, not as a percent (i.e., report 1.25 for a 25% increase, not 125% or 25%)

Click **Use Wizard** to use the Production Ratio/Activity Ratio Wizard.

Note: If you would like to calculate a weighted average using multiple Production or Activity Variables, select 'Multiple Variable' before clicking **Use Wizard**.

- Single Production or Activity Variable
- Multiple Variables (Weighted Average)

Production Ratio or Activity Ratio:

1.0 equals the same production level as the prior reporting year.

 Select Metric: Production Ratio Activity Ratio

[More on Production Ratio and Activity Ratio](#)

Optional: Include info on production or activity variable(s) used to calculate ratio.

Production or Activity Variable(s) (included in Section 9.1, Miscellaneous Information):

(e.g., "The variable used to calculate production ratio is: refrigerators produced.")



Production Ratio Wizard



Logged in as: TUTORIAL_1, Test Facility

Welcome My Facilities **Prepare** Validate Transmit Review eFDP

Select Year | Select Facility | Forms | Chemical Info | On-site Release/Disposal | On-site Waste Mgmt | Off-site Transfer | **Source Reduction/Recycling** | Misc Info | Summary

Standard Production Ratio Calculator

(Form R, Part II, Section 8.9)

Identify the production variable that primarily determines the amount of chemical used or produced at your facility and enter values for the current and prior reporting years.

Select Metric: Production Ratio Activity Ratio

[More on Production Ratio and Activity Ratio](#)

Production Variable Example: Your facility uses toluene to paint refrigerators. The Production Variable selected is "number of refrigerators painted"

Production Variable	Prior Year 2013 Value	Current Year 2014 Value	Production Ratio	
Refrigerators	800	1000	1.25	<input type="button" value="= Calculate"/> <input type="button" value="Clear"/>
<input type="checkbox"/> Include Production Ratio or Activity Variable(s) in Section 9.1 (Miscellaneous Information).				<input type="button" value="Learn More"/>

[Production Ratio Example](#)

[Sample Industry-Specific Production or Activity Variables](#)



Production Ratio or Activity Ratio: NEW Select Metric: Production Ratio Activity Ratio
1.25 equals a 25% increase. [More on Production Ratio and Activity Ratio](#)

Optional: Include info on production or activity variable(s) used to calculate ratio.

Production or Activity Variable(s) (included in Section 9.1, Miscellaneous Information):

The variable used to calculate production ratio is:
REFRIGERATORS.

(e.g., "The variable used to calculate production ratio is: refrigerators produced.")



Estimated Annual Reduction for P2



Logged in as: TUTORIAL_1, Test Facility

Preferences Save Close

Welcome My Facilities Prepare Validate Transmit Review eFDP

CDX Helpdesk Chat

Select Year | Select Facility | Forms | Chemical Info | On-site Release/Disposal | On-site Waste Mgmt | Off-site Transfer | Source Reduction/Recycling | Misc Info | Summary

Source Reduction Activities

Test Facility Cambridge, MA
0213WZBRTS55WHE
2014 Form R for Benzene

(Form R, Part II, Section 8.10)

Hover on the icon to find out more about the new reporting element for RY 2014

Report any source reduction activity that was newly implemented during the reporting year for this chemical by selecting the applicable code(s). Examples of source reduction activities include increasing the purity of raw materials or improving maintenance procedures. Also, select the code(s) indicating the method(s) you used to identify each source reduction activity. Click on the button to the right of each selected code if you would like to provide additional information on the activity and/or the method used to identify the activity. [Click here for tips on completing this section and for guidance on reporting green chemistry practices.](#)

If you did not initiate any source reduction activity for this chemical during the reporting year, check the "Not Applicable" box.

Not Applicable

Source Reduction Activity 1

W50 - Optimized reaction conditions or otherwise increased efficiency of synthesis

Methods to identify Activity 1

T01 - Internal Pollution Prevention Opportunity Audit(s) [Provide Additional In...](#)

Select a Source Reduction Method

Select a Source Reduction Method

Estimated Annual Reduction for Activity 1 (optional)

R2 - greater than or equal to 50%, but less than 100% [Learn More](#)

Select a Source Reduction Range Code for Source Reduction Activity 1

- R1 - 100% (elimination of the chemical)
- R2 - greater than or equal to 50%, but less than 100%**
- R3 - greater than or equal to 25%, but less than 50%
- R4 - greater than or equal 15%, but less than to 25%
- R5 - greater than or equal 5%, but less than to 15%
- R6 - greater than 0%, but less than 5%

Methods to identify Activity 2

Select a Source Reduction Method

Select a Source Reduction Method

Select a Source Reduction Method

Estimated Annual Reduction for Activity 2 (optional)

Select a Source Reduction Range Code for Source Reduction Activity 2 [Learn More](#)

http://www.epa.gov/twebhelp/UserGuide/WebHelp/estimated_annual_reduction.htm - Wind...

[Show User Guide << >>](#)

Estimated Annual Reduction

(Form R, Part II, Section 8.10)

For each Source Reduction Activity reported, you may also provide an estimate of the resulting reduction in the annual amount of the chemical to be managed as waste (i.e., released, recycled, treated, or used for energy recovery). The estimated annual reduction can be calculated as follows:

$$\frac{(B - A) \times 100\%}{B}$$

where:

A = estimated amount of the EPCRA Section 313 chemical to be managed as waste in the year after the source reduction activity has been implemented and

B = estimated amount of the EPCRA Section 313 chemical that would have been managed as waste had the source reduction activity not been implemented.



New Checkboxes for Barriers to P2



Logged in as: TUTORIAL_1, Test Facility

Preferences

Save

Close

Welcome My Facilities Prepare Validate Transmit Review eFDP

CDX Helpdesk Chat

Select Year | Select Facility | Forms | Chemical Info | On-site Release/Disposal | On-site Waste Mgmt | Off-site Transfer | Source Reduction/Recycling | Misc Info | Summary

Source Reduction Activities

Test Facility: Cambridge, MA
0213WZBRTS55WHE
2014 Form R for Benzene

(Form R, Part II, Section 8.10)

Hover on the  icon to find out more about the new reporting element for RY 2014

Report any source reduction activity that was newly implemented during the reporting year for this chemical by selecting the applicable code(s). Examples of source reduction activities include increasing the purity of raw materials or improving maintenance procedures. Also, select the code(s) indicating the method(s) you used to identify each source reduction activity. Click on the button to the right of each selected code if you would like to provide additional information on the activity and/or the method used to identify the activity.

[Click here for tips on completing this section and for guidance on reporting green chemistry practices.](#)

If you did not initiate any source reduction activity for this chemical during the reporting year, check the "Not Applicable" box.

Not Applicable

 **Optional:** If you wish, use the checkboxes below to indicate barriers your facility faces with regard to the implementation of source reduction activities. You may also elaborate on these barriers using the **Provide Additional Info (optional)** button provided beside each barrier selected. Any information entered below will appear under the heading "P2 Barriers" in Section 8.11 (Optional Pollution Prevention Information).

Barriers to Source Reduction:

- Insufficient capital to install new source reduction equipment or implement new source reduction activities/initiatives.
- Require technical information on pollution prevention techniques applicable to specific production processes.
- Concern that product quality may decline as a result of source reduction.
- Source reduction activities were implemented but were unsuccessful.
- Specific regulatory/permit burdens.
- Pollution prevention previously implemented - additional reduction does not appear technically or economically feasible.
- No known substitutes or alternative technologies.
- Other (please describe):

Provide Additional Info (optional)





New Interface for Optional P2 Info

TRI-ME WEB Logged in as: TUTORIAL_1, Test Facility Preferences Save Close

Welcome My Facilities **Prepare** Validate Transmit Review eFDP CDX Helpdesk Chat

Select Year Select Facility Forms Chemical Info On-site Release/Disposal On-site Waste Mgmt Off-site Transfer **Source Reduction/Recycling** Misc Info Summary

Optional Pollution Prevention Information

(Form R, Part II, Section 8.11) Test Facility Cambridge, MA
0213WZBRTS55WHE
2014 Form R for Benzene

NEW Hover on the **NEW** icon to find out more about the new reporting element for RY 2014

If you wish, enter additional optional information on source reduction, recycling, energy recovery, treatment, or other pollution control activities in the boxes below. Providing detailed information in this section is an opportunity to publicly highlight the steps your facility has taken to reduce the amount of toxic chemicals entering the environment.

[Click here for tips on completing this section.](#) To see how EPA has featured optional pollution prevention entries from previous years, [click here.](#)

You may indicate that you are submitting information pertaining to specific topics using the optional checkboxes below. Do not enter information unrelated to pollution prevention in this section.

To avoid displaying of special characters in your comment text, you may paste text copied from a note pad or a text pad.

NEW Suggested Topics (text box will appear for topic(s) you select):

- Source Reduction
Changeovers are sequenced to reduce the need to perform a clean-up. This reduces the amount of cleaning solution used in the process as well as the waste generated.
(4000/4000 Characters remaining.)
- Recycling
- Energy Recovery
- Waste Treatment
- General Environmental Management
- Methods for Identifying Pollution Prevention Opportunities
- Ways P2 Was Incorporated in Original Process Design

Other Optional Pollution Prevention Information:
[Use the check boxes to comment on the topics above, or use this text box for information that does not fit under the topics above]

(4000/4000 Characters remaining.)



New Interface for Optional Misc. Info

TRI-ME WEB Logged in as: TUTORIAL_1, Test Facility Preferences Save Close

Welcome My Facilities **Prepare** Validate Transmit Review eFDP

Select Year | Select Facility | Forms | Chemical Info | On-site Release/Disposal | On-site Waste Mgmt | Off-site Transfer | Source Reduction/Recycling | **Misc Info** | Summary

Miscellaneous Information

(Form R, Part II, Section 9.1) Test Facility Cambridge, MA
0213WZBRTS55WHE
2014 Form R for Benzene

NEW Hover on the **NEW** icon to find out more about the new reporting element for RY 2014

If you wish to submit any miscellaneous, additional, or optional information regarding your Form R Submission, provide it here.

You may indicate that you are submitting information pertaining to one or more of the following topics by checking a box next to the topic to which your information pertains.

To avoid displaying of special characters in your comment text, you may paste text copied from a note pad or a text pad.

NEW Suggested Topics (text box will appear for topic(s) you select):

- Changes in Production Levels

Overall production has increased due to increased sales.

(4000/4000 Characters remaining.)

- Calculation Methods, e.g., Emission Factors
- One-time or Intermittent Events Impacting Reported Quantities
- Issues or Difficulties Encountered in Submitting Form
- Additional Contact Info
- Other Regulatory Requirements Related to this Chemical
- No TRI Reports Expected for this TRIFID Next Year
- No TRI Report Expected for this Chemical Next Year

Other Miscellaneous Information:

[Use the check boxes to comment on the topics above, or use this text box for information that does not fit under the topics above]

(4000/4000 Characters remaining.)

Production or Activity Variable

The variable used to track into production activities: REFRIGERATORS



Optional Facility Level Info



TRI-ME_{WEB}

Logged in as: CHERYLKEENAN, ABT ASSOCIATES

Welcome **My Facilities** Prepare Validate Transmit Review eFDP

My Facilities | Upload/Download Data

Optional Facility-Level Information

Zebra Test Facility Hyattsville, MD
31904CLMBSZEBRA
RY 2014
Last Modified Date: N/A

Optional Facility-Level Information

NEW You may provide EPA with optional information about changes to your facility (e.g., relocation or merger) as well as why your facility will not be filing one or more TRI forms for the current reporting year (e.g., closure, temporary shutdown, failure to reach a reporting threshold).

Select a checkbox for a topic below to provide optional information on that topic. Then click Submit at the bottom left of the screen to submit this information to the EPA. You do not need to certify this information and it is provided to EPA outside of a TRI reporting form.

- Facility Name has changed
- Facility Technical Contact has changed
- Facility Public Contact has changed
- Facility has relocated to a new physical address
- Facility merged with another location
- Facility has closed
- Facility was temporarily shut down
- Facility did not have 10+ full-time employee equivalents
- Facility is not in a covered NAICS sector
- Fell below reporting threshold for one or more chemicals due to source reduction
- Fell below reporting threshold for one or more chemicals due to reason(s) other than source reduction (e.g., change in source materials, decrease in business activity, etc.)



Utility of Reporting Reduction Estimates

- The [TRI P2 Tool](#) (for data users) currently sorts reported P2 practices by largest year-to-year decreases in TRI quantities; new data field will provide a more direct method for identifying largest P2 achievements

Show <input type="text" value="10"/> entries		Showing 1 to 10 of 19 entries				Search: <input type="text"/>
FACILITY NAME	ADDRESS	YEAR	PRIOR YEAR RELEASE *	CURRENT YEAR RELEASE *	PERCENT CHANGE	POLLUTION PREVENTION INFORMATION (ACTIVITY CODES/TEXT)
WARWICK MILLS INC P2 Details	301 TURNPIKE RD, NEW IPSWICH, NH 03071	2008	55,048.00	1,240.00	-97.75%	<i>W58: Other process modifications</i> Continued use of thermal oxydation process using fire tube boilers for heat recovery.
COOLEY INC P2 Details	50 ESTEN AVE, PAWTUCKET, RI 02860	2007	13,797.00	5,517.00	-60.01%	Emissions decreased considerably in cy07 for a couple of main reasons. In cy2007, cooley, inc. Had a significant decrease in usage/Demand of higher voc/Hap coatings. Water based coatings are being used much more frequently. In cy2007, cooley, inc. Changed from 95.2% control efficiency and 100% capture efficiency recuperative thermal oxidizer to a 98% control efficiency regenerative thermal oxidizer (Rto) and 100% capture efficiency.
SEAMAN CORP - BRISTOL PLANT P2 Details	225 N INDUSTRIAL DR, BRISTOL, TN 37620	2011	2,492.00	1,169.00	-53.09%	<i>W42: Substituted raw materials</i> Method(s) to Identify P2 Activities: <i>T04 [Participative Team Management]</i> - Developed non-toluene containing versions of this formulation for certain product applications
JAYBIRD & MAIS INC P2 Details	360 MERRIMACK ST, LAWRENCE, MA 01843	2011	196.00	95.00	-51.53%	<i>W73: Substituted coating materials used</i> Method(s) to Identify P2 Activities: <i>T10 [Vendor Assistance]</i> - Vendor reformulated adhesives
AVERY DENNISON RBIS LENOIR P2 Details	950 GERMAN ST, LENOIR, NC 28645	2011	2,218.00	1,089.00	-50.9%	<i>W58: Other process modifications</i> Sales volumes decreased greatly in the solvent based production as more customers moved to water based inks.
JESSUP MANUFACTURING CO	1701 ROCKLAND RD, LAKE BLUFF,	2009	5,206.00	3,006.00	-42.26%	Near the end of 2008, we purchased and installed a new regenerative thermal oxidizer to capture and incinerate a larger percentage of our VOM emiissions and reduce our natrual gas usage. Our FESOP permit was also revised and reissued at this time.



Utility of Optional Free Text Information

- Optional information on pollution prevention, barriers to P2 and other topics provides context on your TRI chemical quantities to data users

Production Related Waste Management for Selected Chemical

For more on the Waste Management Hierarchy, see the Pollution Prevention [Overview](#) page

Management of N-Butyl Alcohol at Sample Facility

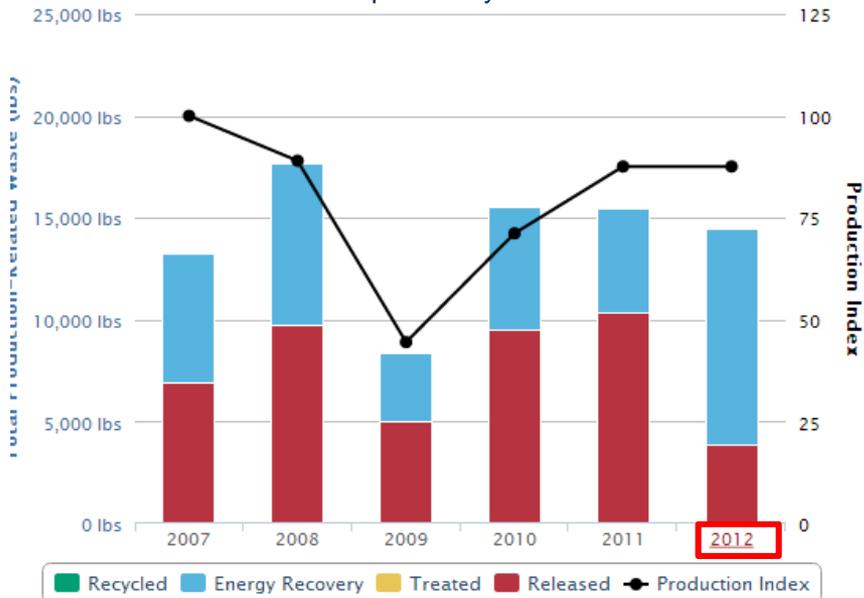
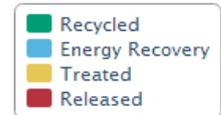
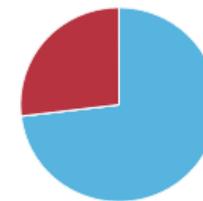


Chart Options:

- Display waste quantities only
- Display production index

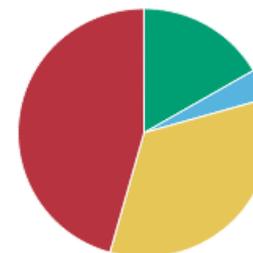
Waste Management Comparison – Select Year: 2012

Sample Facility



Total for N-Butyl Alcohol: 14,437 lbs

All other NAICS 336 – Transportation Equipment 1 185 other TRI reporters, 90 reporting N-Butyl Alcohol



Total for N-Butyl Alcohol: 8 million lbs



Utility of Optional Free Text Information

- P2 and miscellaneous information can be accessed in the [TRI P2 Tool](#) by clicking on the applicable reporting year

Production Related Waste Management for Selected Chemical

For more on the Waste Management Hierarchy, see the Pollution Prevention [Overview](#) page

Management of N-Butyl Alcohol
at Sample Facility



Waste Management Comparison – Select Year:

[Return to Graph](#)

[Section 8.10: Newly Implemented Source Reduction Activity](#)

W74: Improved application techniques

[Section 8.11: Optional Pollution Prevention Information](#)

T11: Improved process as part of our Lean Initiatives, reducing the number of painted trucks that needed to go through booths for rework.

T11: Improved process as part of our Lean Initiatives, reducing the number of painted trucks that needed to go through booths for rework.

[Information About Production Index](#)

Production variable: Number of trucks produced

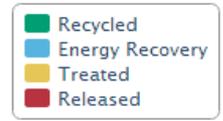
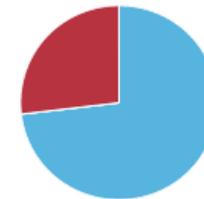
[Miscellaneous Information](#)

Changed the method of applying line flush to waste pickup, giving more accurate balance to waste stream.

Chart Options:

- Display waste quantities only
- Display [production index](#)

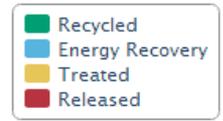
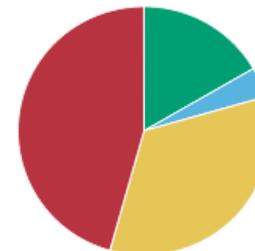
Sample Facility



Total for N-Butyl Alcohol: 14,437 lbs

All other NAICS 336 – Transportation Equipment

1 185 other TRI reporters, 90 reporting N-Butyl Alcohol



Total for N-Butyl Alcohol: 8 million lbs



Benefits of Reporting P2 to TRI



www.youtube.com/watch?v=wSrlff7NRfo



Pollution Prevention Tipsheet



TRI Pollution Prevention Reporting Tipsheet



Give yourself some credit!

Report your pollution prevention (P2) achievements through EPA's Toxics Release Inventory (TRI) Program. Section 8.11 of your annual TRI report invites you to describe your P2 activities, as well as recycling, energy recovery or treatment activities related to the chemicals at your facility. Take this opportunity to highlight your company's commitment to reducing the release of toxic chemicals in your neighborhood.

Tell us your story

Don't forget the details! Detailed descriptions help communities better understand your pollution prevention activities. You may want to consider the topics/questions listed below when preparing to complete the optional P2 section of your TRI report (Form R, Section 8.11).



- ▶ Which **chemical(s)** did you target for P2 activities?
- ▶ What **type(s) of P2 activities or technologies** did you adopt and why?
- ▶ Which **processes and products** were affected?
- ▶ Did you employ any **safer chemical** alternatives?
- ▶ What are the **environmental benefits** (e.g., realized or expected results)?
- ▶ Did your company attain **other benefits** (e.g., cost savings, improved product quality, energy savings)?
- ▶ Did an outside organization **provide assistance**?
- ▶ Do you have any updates on P2 activities implemented in **prior years**?
- ▶ Are there any **webpages** with more information?

Feel free to use this space for notes or to share information internally.

Do not submit this sheet to EPA.



To find out if your facility is required to submit a TRI report, go to www.epa.gov/tri

Pollution Prevention Achievements



See what others are doing*

EPA promotes P2 efforts by sharing your stories on our website (www.epa.gov/tri/p2) and featuring examples in other publications, including EPA's annual TRI National Analysis (www.epa.gov/tri). Share your success and demonstrate your environmental stewardship!

BAE Systems reduced its xylene and zinc releases in its Southeast Shipyard Alabama facility by implementing new pollution prevention and waste minimization procedures and policies for its surface coating activities. The facility established a materials management program that tracks the usage and disposal of all hazardous and nonhazardous substances. All coatings are inventoried quarterly and properly labeled for tracking which allows for monitoring shelf life and minimizes over-stocking. Purchasing is now centralized and done in a manner that identifies possible nonhazardous alternatives and orders the smallest quantities possible to avoid waste. The facility is also now training all of its employees on the proper handling of hazardous and nonhazardous wastes to prevent mixing.



Xerox implemented a solvent recovery system for its methyl isobutyl ketone wastes in its Webster, New York manufacturing facility. Prior to diverting the waste to the recovery system, it was shipped offsite and combusted for energy. The reclaimed solvents are used for cleaning certain process equipment and in support of research and development projects. In 2011, the facility recovered 45 percent of its methyl isobutyl ketone waste and plans to increase this amount to as much as 70 percent in the future. The recovered solvent saves the facility nearly \$20 per gallon when compared to the cost of virgin solvent. The measure reduced the amount of virgin solvent purchased by the facility and the amount it spent on solvents by about 50 percent.



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— Dr. Robert Peoples
Former Director of the American Chemical Society's Green Chemistry Institute;
Executive Director, Carpet America Recovery Effort,
and President, Environmental Impact Group, Inc.

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To find out more about P2 opportunities, go to www.epa.gov/p2



TRI Reporting Resources

- Visit the **TRI Program's website**: www.epa.gov/tri.
 - [About TRI](#)
 - [What facilities need to know about reporting to TRI](#)
 - [How to use TRI-MEweb](#) – [Online tutorials](#)
 - [How TRI uses your data](#)
- **Get help** with TRI reporting:
 - TRI Information Center: (800) 424-9346 - select option #3
 - Central Data Exchange (CDX) Help Desk: (888) 890-1995
 - Juan Parra, **TRI-MEweb Technical Lead**: Parra.Juan@epa.gov
- Check out the **TRI Pollution Prevention (P2) Search Tool**:
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