P2 Tool Quick Start Guide

Introduction

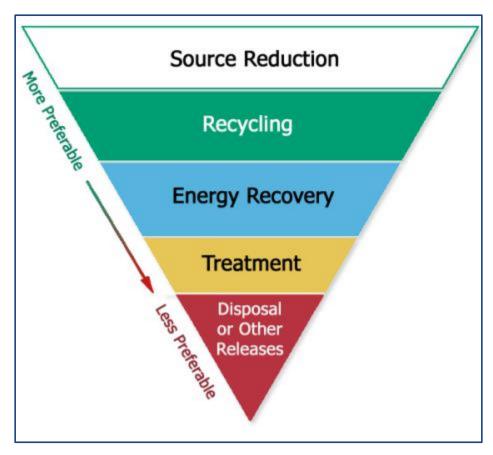
The TRI Pollution Prevention (P2) Search Tool offers easy access to the P2 information submitted by industrial facilities in their Toxics Release Inventory (TRI) reports. This guide demonstrates how you can use the P2 Search Tool to help answer your questions about P2, waste management, and environmental progress at facilities. Click on the four main questions below to learn about the primary functions of the Tool, scroll through the Tool images and associated text to learn about the different features, or click on a bulleted sub-topic to jump to a specific feature.

Questions covered in this Guide include:

1	. What P2 information is reported to TRI and where can I find definitions of P2 terminology?	. 2
2	How do I find reported P2 practices for a specific chemical and/or industry?	. 3
	2.A Can I see which P2 activities contributed to the largest reductions in releases to air, water, or land?	. 4
	2.B Can I find examples of facilities that implemented a specific type of P2 practice, such as those that made a chemical substitution?	
	2.C Can I download the results (e.g., to Excel)?	. 5
3	. How do I compare P2 progress and waste management practices across facilities?	. 6
	3.A <u>How can I view waste management trends for a whole industry?</u>	. 8
	3.B Can I download my results to Excel (including data that do not fit in the charts)?	. 8
	3.C How do I see which facilities managed the greatest quantities of a chemical?	. 8
	3.D <u>Can I compare different metrics across facilities</u> , like facility greenhouse gas emissions or a five- year waste trend?	. 8
4	. How do I view the P2 efforts reported by a specific facility?	. 9
	4.A Can I see waste management of a specific chemical at a facility over time?	12
	4.B How do I know whether waste management trends are driven by changes in production?	12
	4.C <u>How can I tell whether a facility's waste management practices are similar to the rest of its industry?</u>	12
	4.D Can I download all P2 information reported by a specific facility?	I 2
	4.E Can I see a facility's greenhouse gas (GHG) emissions trend alongside its TRI trends?	12

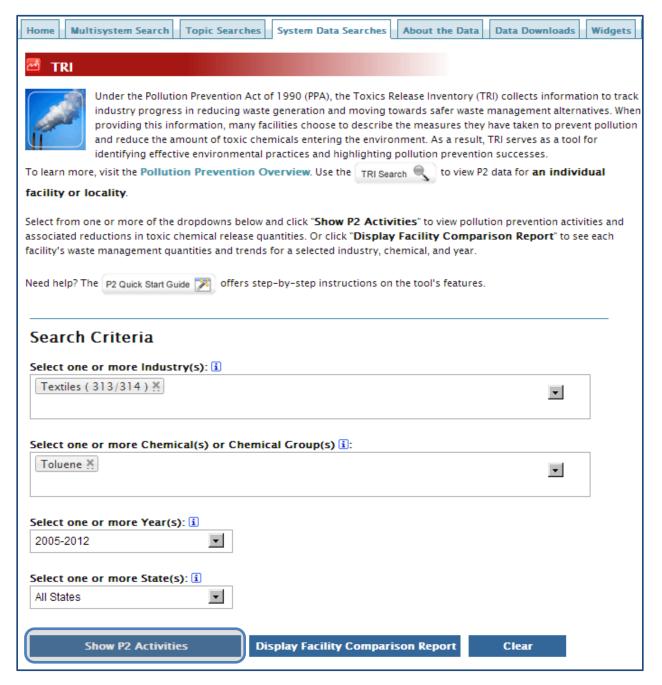
1. P2 information reported to TRI and P2 terminology

TRI tracks each facility's progress towards the goals of the Pollution Prevention Act using the framework provided by the waste management hierarchy (see below). The <u>Pollution Prevention Overview</u> (http://www.epa.gov/enviro/facts/tri/p2_overview.html) provides a full explanation of the information collected and meaning of key P2-related terms.



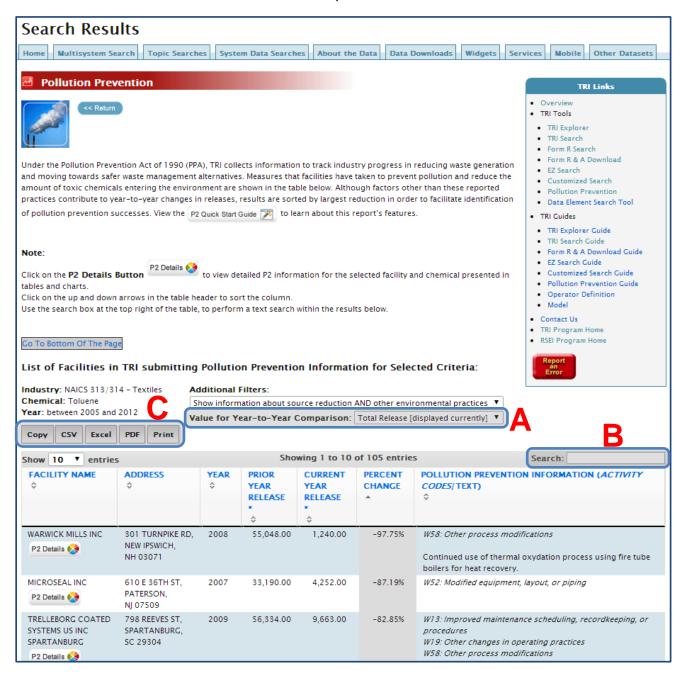
2. Find P2 examples for a specific chemical and industry

Start at the main P2 search page: www.epa.gov/enviro/facts/tri/p2.html. Select the chemical(s) and/or industry(s) that you want to search for (in this example: toluene and textiles). You can also limit the search to a specific year or state. Click on the drop-down arrow again to select multiple industries, chemicals, years, or states, or just start typing your selections into the query boxes. Click "Show P2 Activities" to see a list of P2 activities reported for the industry-chemical combination, as shown on the next page.



Overview of Search Results Page

Your P2 search results will be displayed in the default format, where facilities with the greatest reduction in releases are listed first. There are several ways to limit and sort search results.



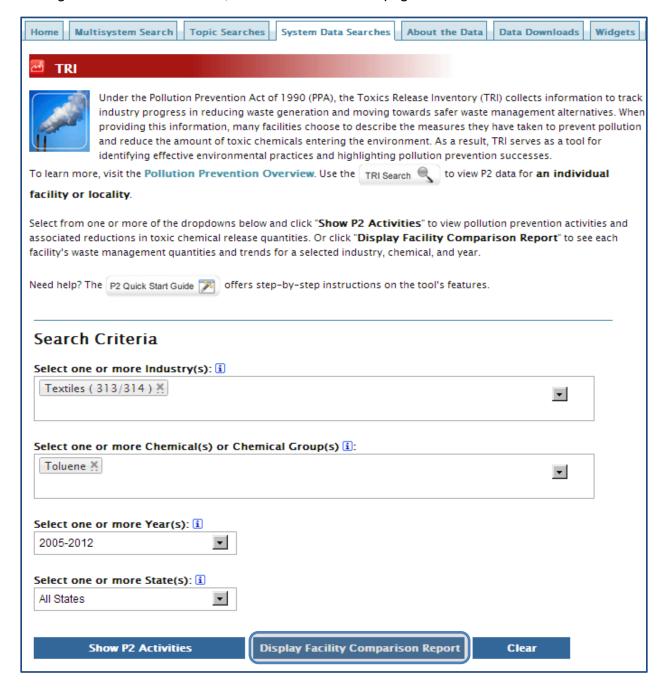
2.A Use the "Value for Year-to-Year Comparison" dropdown to change the waste type shown in the results table. You can display chemical— and facility—specific reported total waste (includes quantities released, recycled, used for energy recovery, or treated), total releases (to air, water, land, and off-site releases), air releases, land releases, or water releases. **For example**, you can sort your search results to show P2 text for facilities with the greatest decrease in on-site air releases.

- **2.B** Use the Search bar to find P2 entries related to a specific keyword. (Tip: use spellings that capture multiple forms of search terms.) **For example**, you can search for "substitut" to find source reduction activities where alternative chemicals were substituted for a selected chemical. Or type in "W5" if you're interested in process modifications (source reduction codes W50–W58).
- **2.C** Use the buttons on the top left to download or print search results in a variety of different formats.

3. Compare P2 progress and waste management practices across facilities

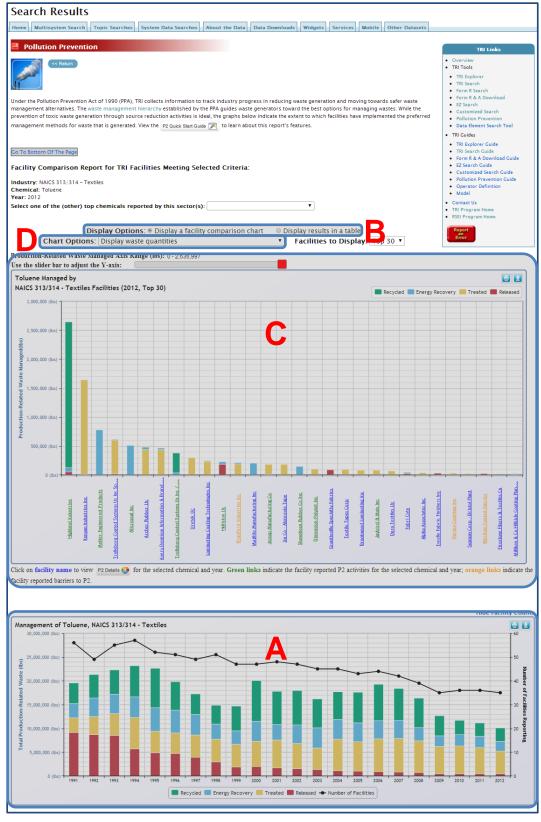
Start at the main P2 search page: www.epa.gov/enviro/facts/tri/p2.html. Select the chemical(s) and/or industry(s) for which you wish to display a report (in this example: toluene and textiles). You can also limit the search to a specific state. The search defaults to the most recent year if you don't select a year.

Click "Display Facility Comparison Report" to see a comparison of how facilities in the selected industry manage the selected chemical, as shown on the next page.



Overview of Facility Comparison Report Page

Facility comparison results will be displayed in the default format, with waste quantities displayed for the top 30 facilities. This display includes **all** facilities reporting the selected chemical in the selected industry, including those that did not report any P2 activities. There are several ways to modify the display and view additional metrics.



- **3.A** The **chemical management chart** shows the waste management of the chemical for the selected industry over time. The number of facilities reporting the specific chemical and industry is displayed by the black line, which can be turned off using the "Hide Facility Counts" button.
- **3.B** Use the **Display Options** to toggle between displaying information as two charts (shown; the default format) and as a **downloadable** table with facility-level waste management information. The table will display all results matching your query while the chart can display 50 facilities at most.
- **3.C** The **facility comparison chart** compares TRI production–related waste management by facility for the selected industry and chemical (in this example, toluene waste in textile manufacturing). It also can display a five–year trend for TRI waste managed or greenhouse–gas releases. Note that production–related waste is reported and displayed for all TRI facilities, not just facilities that implemented P2 activities.
- **3.D** The "Chart Options" dropdown changes the displayed quantities on the facility comparison chart. Select from the following options:

Display waste quantities: The default option displays the total production-related waste (includes quantities released, recycled, used for energy recovery, and treated) reported by each facility for the specific chemical.

Display waste quantities as a percentage of total waste: This option displays the percent of total production–related waste at each facility that is recycled, used for energy recovery, treated, and released and can help you see, for example, which facilities have minimized the share of their waste that is released to the environment.

Display GHG emissions reported to the GHGRP: In addition to TRI production-related waste, this option displays the greenhouse gas emissions (in metric tons CO2- equivalent) for all facilities that report to both TRI and EPA's <u>Greenhouse Gas Reporting Program</u> (GHGRP). Note that some sectors (e.g., textiles) do not have many facilities that are required to report to both TRI and GHGRP.

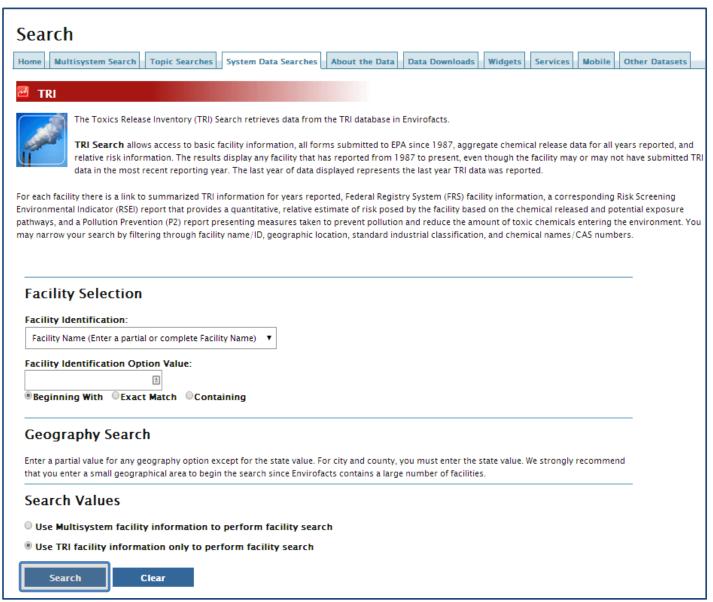
Display 5-year waste trend: Displays the 5-Year Waste Trend metric for each facility. This option displays a comparison of current waste levels to past waste levels for each facility on a 3-year rolling average basis. The "5-Year Waste Trend" through 2012 is equal to the percent change in average annual waste from the 2006-2008 period to the 2011-2012 period.

Display 5-year waste trend normalized: This option displays the normalized 5-Year Waste Trend metric for each facility. This metric is calculated the same way as the 5-Year Waste Trend, except that waste levels are normalized relative to production using the production ratio/activity index values reported by the facility for the chemical.

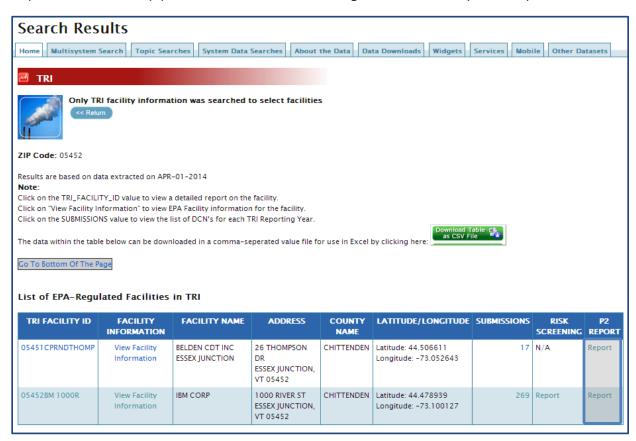
4. Learn about the waste management practices and pollution prevention efforts of a specific chemical at a specific facility

The "P2 Details" page contains detailed information about waste management quantities and practices at a specific facility. There are several ways to find the P2 Details Page, as illustrated by the examples above. You can also find P2 Details for a specific chemical/facility by using the basic TRI Search in Envirofacts.

Start at the main TRI Search page in Envirofacts: www.epa.gov/enviro/facts/tri/search.html. You can search by facility name, TRI Facility ID, address and state, industry, or chemical (in this example, we search for facilities in a specific zip code). Click "Search" to see a list of facilities meeting your criteria, as shown on the next page.



The Search Results page shows a list of facilities that meet your search criteria. Select "Report" under P2 Report for the facility you are interested in to navigate to the facility's P2 Report.

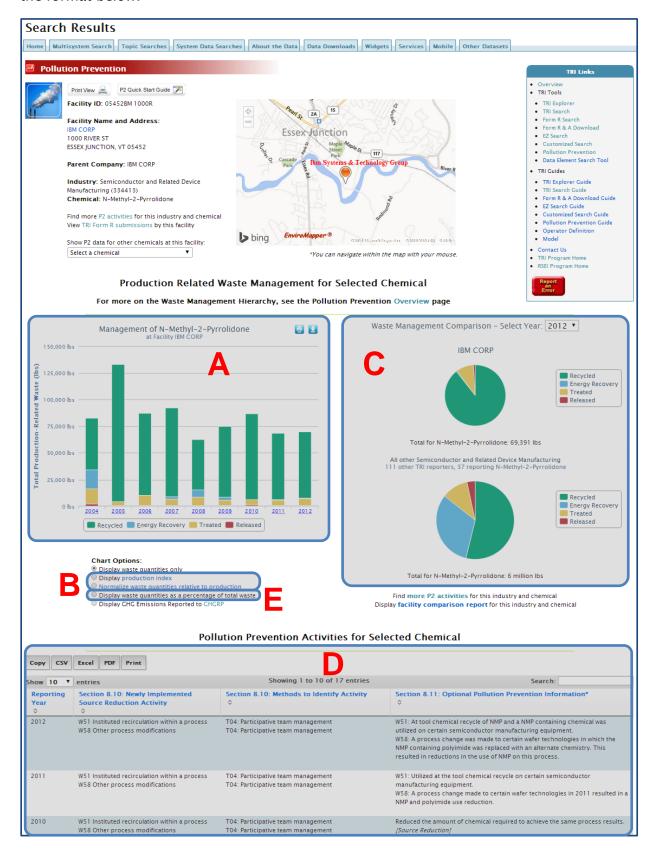


The table at the bottom of the facility's P2 Report shows the years in which the specific facility reported P2 information (TRI Section 8.10 and 8.11) for each chemical. On the Pollution Prevention Activities table, select "P2 Details" for the specific chemical of interest.



Overview of P2 Details Page

Waste management and pollution prevention details are provided for the selected chemical and facility in the format below.



- **4.A** The chemical management chart shows how much waste was released, recycled, used for energy recovery, and treated over time. Click on hyperlinked years along the x-axis to see the P2 text reported by the facility for that year (also displayed in the Pollution Prevention chart below).
- **4.B** "Display production index" adds a black line on the chart showing how production at the facility has changed from year to year while "Normalize waste quantities relative to production" shows the trends in waste quantities per unit of output.
- **4.C** The waste management comparison chart compares the facility's waste management practices for the specified chemical and year to the rest of the industry's. Switch the displayed year using the dropdown menu at the top of the chart.
- **4.D** The **Pollution Prevention Activities** section lists all pollution prevention information reported by the facility for the selected chemical by year. You can search for keywords, sort by columns, and download the results in a variety of formats.
- **4.E Greenhouse gas emissions** can also be added to the chart for facilities covered by EPA's GHG Reporting Program.

Additional Resources

- TRI Pollution Prevention website
 - o Learn more about the types of Pollution Prevention Information collected by TRI.
- Overview of Pollution Prevention Data
 - A two-page overview of the P2 information collected under TRI and how it can be used to track environmental progress at industrial facilities and highlight effective environmental practices.
- TRI Pollution Prevention Reporting Tip Sheet
 - Learn about how to highlight your Pollution Prevention information when reporting to TRI.
- TRI P2 Training Webinar for data users
 - View a training webinar that walks users through the P2 search tool and provides additional suggestions for how to use TRI P2 data.
- TRI P2 Training Webinar for facilities
 - View a facility training webinar on how to submit accurate and helpful P2 data in your TRI report, and learn more about the new ways the TRI Program is highlighting P2 information.
- Pollution Prevention in the National Analysis
 - See the various ways the National Analysis is highlighting P2 information.