

**Supporting Statement for an Information Collection Request (ICR) Under
The Paperwork Reduction Act (PRA)**

1. IDENTIFICATION OF THE INFORMATION COLLECTION

1(a) Title and Number of the Information Collection

Title: Toxic Chemical Release Reporting

EPA ICR No.: 2613.02 OMB Control No.: 2070-0212

Docket ID No.: EPA-HQ-OPPT-2020-0078

1(b) Short Characterization

This ICR consolidates the ICR for TRI Reporting currently approved by OMB under OMB Control No. 2025-0009, with the currently approved version of this ICR covering the TRI Reporting of additional chemicals. Upon OMB approval of this ICR, EPA intends to discontinue OMB Control No. 2025-0009.

This Information Collection Request (ICR) is for the information collection requirements associated with EPA's Toxics Release Inventory (TRI) Program. Pursuant to section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA, 42 U.S.C. 11001 et seq.), certain facilities that manufacture, process, or otherwise use specified toxic chemicals in amounts above reporting threshold levels as provided in 40 CFR 372.25 must submit annually to EPA and to their designated state or Indian country officials toxic chemical release forms containing information specified by EPA; see 42 U.S.C. 11023. In addition, pursuant to section 6607 of the Pollution Prevention Act (PPA, 42 U.S.C. 13101 et seq.), facilities reporting under section 313 of EPCRA must also report pollution prevention and waste management data, including recycling information, for such chemicals; see 42 U.S.C. 13106. EPA compiles and stores these reports in a publicly accessible database known as the Toxics Release Inventory (TRI).¹

Currently, facilities subject to the TRI reporting requirements may use either the EPA Toxics Release Inventory Form R (EPA Form No. 9350-1), or, if they meet alternate threshold requirements, the EPA Toxics Release Inventory Form A Certification Statement² (simply referred to as "Form A" - EPA Form No. 9350-2). With Form R, a facility reports one chemical per form; with Form A, a facility may report multiple chemicals per form.³

In the last ICR renewal under OMB Control No. 2025-0009, EPA added data elements to the Form R and Form A. In this renewal, EPA is consolidating OMB Control No. 2025-0009 with the previously approved ICR under this OMB Control Number, 2070-0212, which covered additions to the list of toxic chemicals subject to reporting under EPCRA section 313 pursuant to the National Defense Authorization Act (NDAA) for Fiscal Year 2020. Section 7321 of the NDAA added certain per- and polyfluoroalkyl

¹ Certain sectors are subject to TRI reporting. For a complete listing of the North American Industry Classification System (NAICS) codes subject to TRI reporting; see 40 CFR 372.23.

² The Form A submission requires a Certification Statement confirming that the sum of amounts of the chemical in releases and waste does not exceed the appropriate release and waste annual reportable amounts for that reporting year.

³ For the full set of instructions and Forms, refer to https://ofmpub.epa.gov/apex/guideme_ext/f?p=guideme_ext:41.

substances (PFAS) to the list of chemicals covered by TRI and provided a framework for listing additional PFAS chemicals.

Pursuant to EPCRA section 313 (and PPA section 6607, because of its linkage to EPCRA), EPA's Office of Chemical Safety and Pollution Prevention (OCSPP) collects, processes, and makes available to the public all of the information collected. EPA stores the information gathered under these authorities in a database available through the Internet. EPA, other federal, state, and local government agencies; industry; and the public use TRI extensively. Program offices within EPA and other government agencies have used TRI, along with other sources of data, to establish priorities, evaluate potential exposure scenarios, and conduct enforcement activities. Industries use TRI data to identify pollution prevention opportunities and set goals for emissions reductions. Environmental and public interest groups use TRI data to make the public more aware of releases of chemicals in their communities, as well as to initiate direct negotiation and risk reduction with facilities.

The TRI data are unique in providing a multi-media (air, water, and land) picture of toxic chemical releases, transfers, and other waste management activities by covered facilities on a yearly basis. With a centralized database and electronic data access tools, TRI provides a wide range of capabilities for a variety of users. Communities and governments can access the identities and quantities of listed toxic chemicals that many industrial facilities in their area release, transfer, or otherwise manage as waste. In addition, industries can use TRI as a tool for evaluating progress on their pollution prevention goals.

2. NEED FOR AND USE OF THE COLLECTION

2(a) Need/Authority for the Collection

This information collection activity is a statutory requirement pursuant to EPCRA section 313 and PPA section 6607. According to EPCRA section 313(h), the purpose of the data collected by the forms is to "inform persons about releases of toxic chemicals to the environment; to assist governmental agencies, researchers, and other persons in the conduct of research and data gathering; to aid in the development of appropriate regulations, guidelines, and standards; and for other similar purposes." Additionally, Section 7321 of the NDAA mandates the addition of certain PFAS to the list of chemicals covered by TRI.

Section 6602 of the PPA establishes a national policy to prevent or reduce pollution at the source whenever feasible. To further this goal, EPA collects and disseminates information intended to fulfill that responsibility in part and to provide a basis for measuring progress in pollution prevention.

EPA's regulations implementing TRI reporting are codified at 40 CFR part 372. Each covered facility must report on each listed chemical manufactured, processed or otherwise used in excess of the reporting thresholds established in EPCRA section 313(f)(1).

EPA established an alternate threshold⁴ under EPCRA section 313(f)(2) for a category of facilities with low amounts of a listed toxic chemical in wastes. A facility with such lower amounts of listed

⁴ EPA has authority to revise the threshold amounts pursuant to EPCRA section 313(f)(2) provided that revised threshold amounts still result in reporting on a substantial majority of total releases of the chemical at all facilities subject to EPCRA section 313. A revised threshold may be based on classes of chemicals or categories of facilities.

chemicals in wastes may submit an EPA Toxics Release Inventory Form A for the reportable chemicals instead of a Form R for each reportable chemical. Note that a Form A may contain multiple chemicals. Form A submissions foster continued attention to chemical management practices and provide important facility identification information. With a Form A, EPA and the general public receive a specific indication annually that a facility has a certain chemical; however, facilities provide less extensive reporting on chemicals when using the alternate threshold.

The information collected on the Form R, or alternatively on the shorter Form A, fulfills EPA's responsibilities under EPCRA section 313(f)(2), addressing the statutory mandates and the public's right-to-know. Table 1 summarizes the information reported by facilities on the two types of TRI reporting forms.

Table 1
Form R and Form A Information Collection

Information Collected	Form R	Form A
Location of facilities manufacturing, processing or otherwise using these chemicals	√	√
Indication that the chemicals are being manufactured, processed or otherwise used at current reporting thresholds	√	√
Certification that the sum of amounts of the chemical in releases and waste did not exceed the appropriate Non-PBT or PBT (lead in stainless steel, brass, or bronze alloy) release and waste annual reportable amounts for that reporting year		√
Accounting of quantities of chemicals entering environmental mediums on site	√	
Disclosure of chemical transfers to off-site locations	√	
Description of on-site waste treatment, energy recovery, and recycling processes	√	
Accounting of other disposal, source reduction and recycling activities	√	
Additional optional information on source reduction, recycling and pollution control activities	√	

2(b) Practical Utility/Users of the Data

The overall goal of the Toxics Release Inventory Program is to provide communities with information about toxic chemical releases and other waste management activities and to support informed decision making by industry, government, non-governmental organizations, and the public.⁵ The Program's success is due, in large part, to the right-to-know provisions contained in the legislation. By requiring that the resulting data be made publicly available "by electronic and other means," Congress ensured that the general public, the media, environmental advocates, researchers, the business community, and others could evaluate and influence industry's efforts to manage toxic emissions. Consequently, EPA makes available data collected under EPCRA section 313 and PPA section 6607 through access tools such as EPA's Envirofacts, TRI Explorer, TRI.NET, and the web-enabled mobile application myRTK.

The TRI Program now provides the TRI Preliminary Dataset within weeks after the annual July 1 TRI reporting deadline. The release consists of downloadable files on the TRI website (also accessible through Data.gov), as well as updated online data access tools (Envirofacts and TRI Explorer).

The EPA generally makes available the annual TRI National Analysis and the final dataset used for that analysis within seven months after the reporting deadline. In addition to providing information to the

⁵ U.S. EPA Toxics Release Inventory Program. <https://www.epa.gov/tri/>

public via electronic means, EPA also conducts outreach activities to make key groups and the public aware of TRI. Libraries in communities all across the United States (in particular, members of the Federal Depository Library Program) provide public access to TRI data. Environmental agencies, industry, and the public use TRI data. EPA program offices use TRI data, along with other data, to help establish programmatic priorities, evaluate potential hazards to human health and the natural environment, and undertake appropriate regulatory and/or enforcement activities. Environmental and public interest groups use the data to better understand toxic chemical releases at the community level and to work with industry, government agencies, and others to promote reductions in toxic chemical releases. Industrial facilities use the TRI data to evaluate the efficiency of their production processes and to help track and communicate their progress in achieving pollution prevention goals. States use the TRI data to compare toxic chemical releases and other waste management approaches within specific industries and to set environmental priorities at the state level. See EPA's *The Toxics Release Inventory in Action: Media, Government, Business, Community and Academic Uses of TRI Data* for more detailed descriptions of how these organizations use TRI data.⁶ EPA encourages TRI data users to provide feedback on ways to improve TRI products and services.

3. NON-DUPLICATION, CONSULTATIONS, OTHER COLLECTION CRITERIA

3(a) Non-Duplication

The basic information requested on Form R/Form A is required to be reported by law. Other statutes, however, also necessitate the reporting of information about releases of chemicals to the environment, as well as transfers, treatment, and source reduction and recycling activities, creating the possibility of overlap or duplication of reporting requirements. EPA anticipates some overlap and notes that section 313(g)(2) of EPCRA specifies that respondents may use readily available data collected pursuant to other provisions of law to complete the EPCRA section 313 reports. Information required by these other statutes may not provide readily accessible multi-media release and transfer, inventory, or pollution prevention data with the same scope, level of detail, chemical coverage, and frequency of collection as data currently included in TRI.

Several existing data sources contain media-specific data on releases and transfers, chemical inventory data, or pollution prevention information. In theory, information from these databases could be combined to form an analog of release and transfer data contained in TRI. However, given the currently available data sources (see Table 2 and Appendix A), this substitution is extremely unlikely. For example, differences exist across the databases in chemical coverage and facility coverage, as well as differences in the level of public access, reporting frequency, and the integration of data from various sources at the facility level. TRI contains information on releases, transfers, and other waste management activities for 595 individually listed chemicals and 31 chemical categories—with the total number of chemicals and chemical categories at 690. The following sections describe other sources of chemical releases and transfers, chemical inventory, and pollution prevention data and compare these sources with TRI.

Chemical Release and Transfer Data

TRI contains information on toxic chemicals handled by facilities, including details on quantities of chemicals managed through disposal or other release, recycling, energy recovery or treatment. These data

⁶ https://www.epa.gov/sites/production/files/documents/tri_in_action_final_report_july_2013.pdf

include: 1) on-site releases with details on releases by environmental media (e.g., stack or point air emissions, discharges to receiving streams or water bodies, etc.), and 2) off-site transfer data with details on the off-site locations that receive transfers and the disposal, treatment, energy recovery, or recycling methods used to manage the chemicals at the off-site locations. Waste management data include quantities that are treated, used for energy recovery, or recycled and are discussed in the section on pollution prevention below.

Table 2 presents a summary of national databases containing fixed location data on chemical releases and transfers, each of which are discussed in this section. Appendix A provides a comprehensive list of relevant data sources.

**Table 2
Federal Databases with Air Release, Water Discharge, and Waste Management Data**

Data Source	Media and Chemical Coverage	Relevant Release Statistics Available	Ease of Database Substitution for TRI Data^a
National Emissions Inventory (NEI)	Contains annual emissions of 8 criteria air pollutants (CAPs) and 187 hazardous air pollutants (HAPs) for facilities.	Total annual releases.	Includes air releases only. Data are updated only every 3 years. Coverage of TRI chemicals is limited. TRI is the source of the NEI record for 62% of the 43,372 facility-chemical records (2011).
Integrated Compliance Information System–National Pollutant Discharge Elimination System (ICIS-NPDES)	Contains monthly discharge monitoring data for selected water parameters/pollutants and flow rates for all CWA major and many minor sources.	Concentration data; EPA now derives annual releases of pollutants for which concentrations and flows are reported as part of periodic discharge monitoring reports.	Includes a limited number of indicator parameters for which a monitoring requirement or discharge limit has been set. Many discharge parameters are not specific to an individual Chemical Abstract Service (CAS) number. Very limited monitoring data for minor dischargers. There were 3,196 facilities in TRI with water discharges greater than zero. 2,367 (74%) also have NPDES permit IDs.
Biennial Reporting System (BRS)	Contains annual volumes of RCRA wastes and how they are managed (offsite in the case of Large Quantity Generator and on-site in the case of treatment storage and disposal Facilities, TSDFs). Each waste stream is characterized by all applicable waste codes but volumes of each are not broken out. Data are reported once every two years.	Total annual off-site transfers of hazardous waste for land disposal; releases to publicly owned treatment works (POTWs).	Many RCRA waste codes are not specific to an individual CAS number. Quantities of chemicals in waste cannot be determined from BRS. Of about 25,900 facilities in Reporting Year (RY) 2013, 24% reported hazardous waste generation to RCRA BR and also reported to TRI. Of about 21,600 TRI filers in RY2013, 29% also reported hazardous waste generation to RCRA BR.
^a “Ease of substitution” refers only to the potential of the information in the database to substitute for TRI reporting. It does not imply that the database is not adequate for the purposes for which it was designed.			

Air Releases

The 1990 amendments to the Clean Air Act require EPA to monitor and regulate the emissions of criteria air pollutants (CAPs) and hazardous air pollutants (HAPs), requiring EPA to identify the sources of these pollutants, quantify the sources by category, develop regulations, and then assess public health and

environmental impacts. To facilitate this process, the Agency created two emissions inventories: the National Toxics Inventory (NTI) for HAPs and the National Emission Trends (NET) for CAPs. In 1999, the EPA combined these two databases to form the National Emissions Inventory (NEI).

NEI is EPA's compilation of estimates of air pollutants discharged on an annual basis and their sources. Five main categories organize NEI data: point sources (stationary), nonpoint sources (stationary), on-road sources (mobile), non-road sources (mobile), and events (fires). The compilation includes emissions estimates submitted by state, local and tribal air pollution control agencies, emissions estimates calculated by EPA, and emissions obtained from other sources. EPA uses the NEI to track emissions trends over time, develop regional pollutant reduction strategies, set and analyze regulations, perform air toxics risk assessments including inhalation risks and multi-pathway exposure, model air pollutant dispersion and deposition, and measure environmental performance as required by the Government Performance and Results Act.

Since 1996, EPA has compiled the NEI every three years. For 2008, the Agency reengineered the NEI business process to shorten the period between collecting data for a given inventory year and publication of those data. The most recent inventory is the 2014 NEI, which EPA published in 2016.

While both datasets contain facility-chemical records with annual release estimates, there are a number of differences between NEI and TRI, including, which chemicals are in scope, the industrial sectors included in the inventory, and the type of information collected (e.g., for which environmental media releases are collected, and what other information besides environmental releases are collected).

- TRI reporting is required for 595 chemicals and 31 chemical categories known or reasonably anticipated to cause acute or chronic health effects or significant adverse environmental effects. NEI covers 8 Criteria Air Pollutants (CAPs) (i.e., carbon monoxide, volatile organic compounds, oxides of nitrogen, sulfur dioxide, particulate matter ≤ 2.5 microns, particulate matter ≤ 10 microns, ammonia, and lead) and 187 Hazardous Air Pollutants (HAPs). TRI covers two of the CAPs (ammonia and lead) and 181 of the 187 HAPs covered by NEI.
- NEI covers all sources of CAP and HAP emissions, including a number of sectors that are not included in TRI (e.g., agriculture, oil extraction and construction).
- NEI includes county-level emissions estimates for area, mobile and other sources not found in TRI.
- TRI includes information on releases, including air emissions and other types of releases (e.g., surface water discharges, underground injection, and landfill disposal of toxic chemicals). NEI focuses entirely on air emissions.
- TRI includes source reduction and waste management data that can be used to assess pollution prevention trends on a facility basis. For some records, NEI provides more detailed emission source-specific data about releases, such as process descriptions, throughput and stack height. The different information captured by the data systems largely reflects the different goals behind the development of the inventories. TRI's main purpose is to provide the public with information about potential chemical hazards, whereas NEI, among other purposes, seeks to produce data that would support modeling and risk assessment needs.
- TRI has reporting thresholds such as employment on site and chemical use/manufacture. NEI does not have such thresholds and includes smaller facilities as point sources or area sources. For example, a facility must report to TRI only if it has 10 or more full-time employee equivalents and manufactures, processes or otherwise uses any TRI-listed chemical in quantities greater than the established threshold (typically 25,000 pounds for manufacturing and processing and 10,000 pounds for otherwise use). PBT chemicals have lower thresholds for reporting to TRI. Organizations

contributing to NEI are expected to submit release estimates for all CAA major facilities, defined as having the potential to emit ten or more tons per year of one HAP or 25 tons per year or more of any combination of HAPs.

- TRI data are reported by individual facilities, certified by facility officials, NEI data are compiled from a variety of sources and methods.

Water Discharges

The Integrated Compliance Information System–National Pollutant Discharge Elimination System (ICIS-NPDES)⁷ is the repository of wastewater discharge monitoring and other CWA compliance activities (e.g., construction plans) required by CWA permits. The system also contains information about the compliance status, inspections, and enforcement actions related to facilities that discharge to surface waters (www.epa.gov/enviro/facts/pes-icis/search.html). For entities permitted to discharge wastewater into navigable waters, ICIS-NPDES contains information on permit issuance and expiration dates, quantities of wastewater and concentrations of pollutants facilities are permitted to discharge, and monitoring data measuring facilities' discharges. ICIS-NPDES data are not directly comparable to TRI:

- Permit compliance data in ICIS-NPDES typically include monthly monitoring measures of pollutant concentrations in effluent discharges and measured flow, while TRI includes estimates of the total amount (in pounds) of a pollutant discharged to water. EPA now derives annual loadings from ICIS-NPDES, which is comparable to TRI releases to water.
- Monitoring required by the National Pollutant Discharge Elimination System (NPDES) covers only parameters the permit writer deems necessary to ensure compliance with permit limits set for the protection of the receiving water. The selected chemicals in wastewater do not comprehensively cover all TRI chemicals discharged to surface water at specific facilities. For TRI Facilities in Reporting Year (RY) 2011 with non-zero water releases, 9,677 of 11,468 (84%) also had NPDES Permit IDs.

Waste Disposal

Under the Resource Conservation and Recovery Act (RCRA), large quantity generators (LQGs) and treatment, storage, and disposal facilities (TSDFs) must submit information on the generation, management, and final disposition of RCRA-defined hazardous wastes every other year. Biennial Reporters submit the following information about each waste generated or managed in the preceding calendar year: constituent waste codes; amounts generated; on- and off-site treatment, storage, and management; wastes received; and the identification of off-site shipment recipients. Facilities submit these biennial Hazardous Waste Reports to the state or EPA Regional office. Following processing by the states and EPA Regions, these biennial reports (BR) are transferred into the BR module of EPA's RCRAInfo system. The Biennial Reporting data do not duplicate the information contained within TRI, as: (1) hazardous waste codes do not map to unique chemicals; (2) quantities of specific chemicals in the waste stream cannot be determined; and (3) reporting occurs every other year, as opposed to annually for TRI.

On-site Chemical Inventory Data

In addition to data pertaining to releases, on-site management and transfers, TRI Form R requires reporting of the maximum amount of a qualifying chemical that is on site at any one time during the

⁷ ICIS-NPDES is the Clean Water Act (CWA) data system of record, replacing the Permit Compliance System (PCS).

reporting year. There are a number of federal programs that also require disclosure of the presence or handling of chemicals and some that also require reporting of maximum amount on-site.

Under EPCRA section 312, the Emergency Response Program requires regulated facilities to submit annual inventory reports of hazardous chemicals stored on-site to their Local Emergency Planning Commission (LEPC) and the State Emergency Response Commission (SERC). The information contained in the Tier II reports surpasses the chemical inventory data requested on TRI Form R in terms of the chemicals covered, absence of thresholds, and level of detail. As Tier II information is currently not submitted by the state SERCs or LEPCs to EPA (due to level of effort) and is not made publicly available due to homeland security concerns, this information source is not considered a ready substitute for the portion of TRI concerning maximum amount of chemicals stored on site.

Under section 112(r) of the Clean Air Act, facilities with processes that use or store more than a specified amount of certain flammable and toxic substances must develop and implement a risk management program and submit to EPA a summary of their program—called a Risk Management Plan (RMP). These plans include the amounts (in pounds) of each substance that are processed or used, hazard assessments of the potential effects of hypothetical accident scenarios, a five-year history of accidental releases involving regulated substances at the facility, and information about the facility's accident prevention and emergency response programs. Facilities with processes that use or store more than a threshold amount (500–20,000 pounds) of a listed substance must file an RMP, including following a significant accidental release. Facilities must update and resubmit RMPs in events of operational changes, an accident, or every five years. RMP inventory data (i.e., identification of chemicals used and maximum amount on-site) do not substitute for TRI as: (1) RMP covers only 54 of the 683 TRI chemical and chemical compound categories⁸ and (2) RMP reporting occurs every five years, as opposed to annually for TRI.⁹

Under section 8(a) of the Toxic Substances Control Act (TSCA), chemical manufacturers and importers must report to EPA's Chemical Data Reporting (CDR) every four years. Facilities must report chemical production amounts for sites that produce (including imported) 25,000 pounds or more of a TSCA inventory chemical substance during any one calendar year between submission periods. Facilities must also report downstream uses of their chemicals as well as characterizing end uses of the chemical. CDR includes annual production volume, chemical concentration, and physical form data not found in TRI. CDR also contains a broader range of chemicals than TRI by covering the entire TSCA list. However, CDR reporting is applicable only to chemical manufacturers (including importers). Consequently, CDR reporting does not apply to industrial facilities in other sectors that process or otherwise use chemicals. As of 2011, there were 67,162 chemicals in CDR, over 700 of which are also in TRI. In CDR, there are 4,753 facilities, 1,735 of which are also in TRI.

Pollution Prevention Data

TRI also collects pollution prevention data from reporting facilities. These data include quantities of chemicals managed by waste management practice (e.g., recycling, energy recovery, etc.) and source reduction activities implemented at the facility.

⁸ <https://www.epa.gov/rmp/list-regulated-substances-under-risk-management-plan-rmp-program>

⁹ <https://www.epa.gov/rmp/risk-management-plan-rmp-rule-overview>

Under the Resource Conservation and Recovery Act (RCRA), facilities must report some pollution prevention data in their Biennial Hazardous Waste Reports (described above). While these biennial reports provide qualitative and quantitative pollution prevention information, facility and chemical coverage is not directly comparable to data required for TRI reporting. Biennial reports contain data on generation, transfer, and management of hazardous wastes; TRI reporting requires data on toxic chemicals in waste streams or process by-products (all production phases and media).

Under various state regulations, at least fourteen states¹⁰ implement mandatory pollution prevention programs for TRI filers, facilities that use toxic chemicals, or generators of hazardous waste. Pollution prevention data are collected under these programs and stored in databases administered by state environmental agencies. The types of pollution prevention data collected vary by state, and may include both data similar to that collected by TRI (e.g., quantities of waste managed, source reduction activities) and details not found in TRI (e.g., pollution prevention plans, costs associated with waste management, etc.). However, no federal or state program collects all of the pollution prevention data currently required by TRI.

3(b) Public Notice Required Prior to ICR Submission to OMB

Prior to submission to OMB, EPA made this ICR available to the public for comment through a Federal Register notice (85 FR 14483, March 12, 2020). During the 60-day comment period, EPA received one general comment that was not specific to this ICR.

3(c) Consultations

Under 5 CFR 1320.8(d)(1), OMB requires agencies to provide 60-day notice in the Federal Register and otherwise consult with members of the public and affected agencies considering the proposed ICR. In accordance with this regulation, EPA published its proposed renewal of this collection in the Federal Register and has provided webinars on TRI to interested stakeholders and has emailed and met with stakeholders interested in chemicals associated this renewal. While meeting with stakeholders, EPA requested feedback on anticipated reporting. Additionally, The Chemours Company, upon request following a teleconference meeting, provided feedback on this ICR, specifically the hours and wages information and comments on incorporating reporting requirements on the added PFAS into the Reporting Forms and Instructions. See Appendix B for more information.

3(d) Effects of Less Frequent Collection

Section 313 requires annual reporting. Section 313(i) permits EPA to modify the reporting frequency by rulemaking; however, EPA must first notify Congress and then delay the initiation of such a rulemaking for at least 12 months, but no more than 24 months, from the date of the notification. In addition, EPA must find: that the modification is consistent with the provisions of subsection (h) of section 313 based on:

- (i) experience from previously submitted toxic chemical release forms; and
- (ii) determinations made under paragraph (3).

Paragraph (3), in turn, provides that EPA must determine:

¹⁰ Arizona, California, Georgia, Maine, Massachusetts, Minnesota, Mississippi, New Jersey, New York, Oregon, Tennessee, Texas, Vermont, and Washington.

- (A) The extent to which information relating to the proposed modification provided on the toxic chemical release forms has been used by the Administrator or other agencies of the federal government, states, local governments, health professionals and the public.
- (B) The extent to which information is (i) readily available to potential users from other sources, such as state reporting programs, and (ii) provided to the Administrator under another federal law or through a state program.
- (C) The extent to which the modification would impose additional and unreasonable burdens on facilities subject to the reporting requirements under this section.

Since TRI represents the best available multi-media database for tracking toxic chemical releases in the United States, a change in the reporting frequency to less than once a year could have a significant impact on the availability of timely toxic chemical data and affect data users, particularly at the community level. Additionally, public access to the most current toxic chemical release data and other waste management information would become more difficult.

3(e) General Guidelines

Although reporting facilities must identify the chemical for which they submit reports, in situations where respondents must submit trade secret information, they can claim the chemical identity as a trade secret. In such circumstances, facilities provide a generic name as part of the information made available to the public. EPA securely stores and maintains the true identity of the chemical (see also Section 3(f) below).

Effective January 21, 2014, EPA requires the electronic submission of TRI Form R/Form A through the Internet via EPA's Central Data Exchange (CDX) by using the Toxics Release Inventory Made Easy Web (TRI-MEweb) reporting software (except for trade secret reports, which must be submitted on hard copy). TRI-MEweb helps facilities prepare high-quality reports more easily than they could by using paper reporting forms due to a number of technology advances, including built-in data quality checks.

Small facilities (with fewer than 10 full-time employees or the equivalent) are exempt from reporting under EPCRA section 313. Two particular provisions that apply to TRI reporters universally: 1) the optional range reporting provision¹¹ and 2) an alternate threshold allowing Form A eligibility, are particularly beneficial to non-exempt smaller facilities with small releases and wastes.

3(f) Confidentiality

Respondents may designate the specific chemical identity of a substance as a trade secret according to EPCRA section 322. Procedures for submission and review of trade secret claims under EPCRA section 313 are set forth in 40 CFR 350. Trade secret submissions are only accepted on hard copy and must adhere to the requirements provided in 40 CFR Parts 350 and 372.85(c)(3) and in the Reporting Forms and Instructions. When a facility claims the chemical identity to be a trade secret and

¹¹ Range reporting provides an option for releases of less than 1,000 pounds to be recorded as a code representing one of three ranges (1 to 10 pounds, 11 to 499 pounds, or 500 to 999 pounds) rather than as a specific estimate of the release amount. Range reporting is not permitted on Form Rs for PBT chemicals. For further discussion, see Section 5(c).

properly substantiates the claim, EPA will not disclose the identity of the chemical to the public. EPA securely stores forms with trade secret information and allows access to those documents only to persons with Trade Secret clearance. Data made available to the public through any means do not include trade secret information.

3(g) Sensitive Questions

This collection does not request any sensitive information.

4. THE RESPONDENTS AND THE INFORMATION REQUESTED

4(a) Respondents/NAICS Codes

The reporting requirements found in EPCRA section 313 apply to owners and operators of facilities that have 10 or more full-time employee equivalents (i.e., a total of 20,000 hours worked per year or greater; see 40 CFR 372.3); are included in a North American Industry Classification System (NAICS) Code listed at 40 CFR 372.23 or under Executive Order 13148; federal facilities regardless of their industry classification; and that manufacture (defined to include importing), process, or otherwise use any EPCRA section 313 (TRI) chemical in quantities greater than the established thresholds for the specific chemical in the course of a calendar year. Historically the TRI-covered industrial sectors were identified by their Standard Industrial Classification (SIC) codes. Beginning with Reporting Year (RY) 2006, the TRI Program converted from SIC codes to North American Industry Classification System (NAICS) codes (71 FR 32464, June 6, 2006). The full list of NAICS codes for facilities that must report to TRI (including exemptions and/or limitations), if all other threshold determinations are met, can be found at 40 CFR 372.23.

4(b) Information Requested

(i) Data Items, Including Recordkeeping Requirements

Appendices D1, D2 and D3 provide copies of the Form A, Form R, and Form R Schedule 1, respectively. To access existing TRI Reporting Forms and Instructions, see https://ofmpub.epa.gov/apex/guideme_ext/f?p=guideme:rfi-home.

Form R

Facilities reporting to TRI report releases and other waste management of listed chemicals on Form R. The required data items, summarized below, are specified in 40 CFR 372.85. Form R consists of two sections. In **Part I**, respondents report facility identification information including: facility identification number; facility name and address; NAICS code; facility Dun and Bradstreet (D&B) number; parent company name; parent company D&B number; name, email address, and phone of the technical contact; and name, email address, and phone of the public contact. In **Part II**, respondents report:

- Toxic chemical identity,
- Mixture component identity,
- Activities and uses of the toxic chemical at the facility,

- Maximum amount of the toxic chemical on site at any time during the calendar year,
- Quantity of the toxic chemical entering each environmental medium on site,
- Transfers of the toxic chemical in wastes to off-site locations,
- On-site waste treatment methods and efficiency, and
- Source reduction and recycling activities.

On Form R **Schedule 1**, facilities reporting on dioxin and dioxin-like compounds report the individual grams data for each member of the dioxin and dioxin-like compounds category present. Form R Schedule 1 is a four-page form that mirrors the data elements from Form R Part II Chemical-Specific Information sections 5, 6, and 8 (current year only).

Form A

Form A also consists of two sections. **Part I** solicits the same information as Part I of Form R (see list above) but requires a different certification statement that represents a signed statement by a facility owner/operator or senior management official. In contrast to Form R where reduced threshold eligibility is not an issue, the Form A signed statement certifies that the annual reportable amount as defined by 40 CFR 372.27(a) did not exceed 500 pounds for the reporting year, and that the amounts manufactured, or processed, or otherwise used did not exceed 1 million pounds for that year. In most instances, PBT chemicals may not be reported using Form A.¹² In **Part II**, a facility may report multiple chemicals on a single Form A. Specifically Form A solicits:

- Toxic chemical identity, and
- Mixture component identity.

In addition to annual reporting requirements, facilities must maintain records used to provide the information required on the form according to 40 CFR section 372.10. Those records may include estimation methodology and calculations; engineering reports; inventory, incident, and operating logs; and other supporting materials. Facilities must keep a copy of each report filed for at least three years.

(ii) Respondent Activities

Facilities engage in a number of activities to comply with the EPCRA section 313 reporting requirements. These activities fall into two distinct groups: Form Activities, consisting of rule familiarization, compliance determination, calculations and form completion, and recordkeeping and submission; and Non-Form Activities, consisting of supplier notification, non-reporter compliance determination, and petitions.

Form Activities

- **Rule Familiarization:** Staff at a facility that is reporting under EPCRA section 313 for the first time must read the reporting package and become familiar with the reporting requirements. This includes the time needed to review instructions, and the time needed to train personnel to respond to a collection of information.

¹² The exception is lead in stainless steel, brass, or bronze alloys, which are not excluded from Form A eligibility.

- **Reporter Compliance Determination:** At reporting facilities, staff must make the determination that the facility meets the criteria for EPCRA section 313 reporting. This activity includes the time required to become familiar with the definitions, exemptions, and threshold requirements under the TRI Program; to review the list of TRI chemicals; and to conduct preliminary threshold determinations to determine if the facility is required to report.
- **Calculations and Form Completion:** Facility staff must gather data and perform calculations to provide the information required on the form. This activity includes the time required to search data sources and the time to complete and review the information.
- **Recordkeeping and Submission:** Facility staff must maintain recordkeeping systems and submit the report to EPA and the state in which the facility is located. This activity includes the time required to transmit or otherwise disclose the information.

Non-Form Activities

- **Supplier Notification:** Certain suppliers of mixtures or trade name products containing reportable substances must annually notify their customers of the product's composition, if the customer is subject to EPCRA section 313 reporting. This activity includes the time required to inform customers, either by letter or through the materials safety data sheet (MSDS) for the product.
- **Non-Reporter Compliance Determination:** In any given reporting year, a group of eligible facilities will complete compliance determination but will not file a Form R or Form A. The process for determining whether reporting is required is the same as described above under Form Activities; however, given that compliance determination applies to all other facilities in NAICS-code-eligible sectors (with ten or more employees)—including those that ultimately do not report to TRI—this separate activity accounts for the latter category.
- **Petitions:** Any person may petition the EPA to add or delete a chemical from the TRI toxic chemical list. EPA evaluates the toxicity of the chemical against the listing criteria established by Congress and makes a determination whether to grant or deny the petition request. If the petition is granted, EPA will propose a rule to either add or delete the chemical and after reviewing the public comments will issue a final rule. If the petition is not granted, EPA issues a notice explaining why the petition was denied. The activities required to prepare and file a petition include the following:
 - Read EPA policy and guidance documents and consult with EPA;
 - Plan activities;
 - Prepare literature search;
 - Conduct literature search;
 - Process, review, and focus information;
 - Write petition;
 - Review and edit petition; and
 - Submit petition to EPA and file.

EPA provides the reporting community with instructions, guidance documents, training materials, and toll-free hotlines to assist them in completing and submitting their reporting forms to EPA. These materials are accessible online: https://ofmpub.epa.gov/apex/guideme_ext/f?p=guideme:home.

5. THE INFORMATION COLLECTED—AGENCY ACTIVITIES, COLLECTION METHODOLOGY, AND INFORMATION MANAGEMENT

5(a) Agency Activities

EPA engages in many activities to fulfill the purpose and requirements of EPCRA. These activities fall into the following categories that cover what the Agency does to assist the regulated community with compliance, to process the data, to maintain the database, and to make the data available:

- Assistance to Reporters;
- Electronic Reporting;
- Paper-Based Reporting (limited to trade secret reporting forms);
- Data Processing and Quality Control;
- Database Organization;
- Links to State Reporting;
- Making Data Available;
- List Revisions and Petition Reviews;
- Trade Secrecy Reviews.

Assistance to Reporters. The Agency operates an outreach program to assist reporters with activities related to Form R (including Schedule 1)/Form A completion. EPA provides TRI reporting assistance with a variety of online tools and guidance, including TRI Reporting Forms and Instructions and TRI-MEweb (TRI Made Easy) reporting software. TRI-MEweb is a Web-based software application that TRI facilities can use for entering, validating and submitting their data. The TRI Program also provides both basic and advanced downloadable TRI training slides plus online audio training modules on the TRI website.

EPA operates two toll-free hotlines to answer general questions and questions pertaining to electronic reporting and data certification over the internet. In addition, the Agency maintains a website with current program-specific information and guidance (<https://www.epa.gov/tri>). General guidance has been prepared for estimating releases, including 14 industry-specific guidance documents. Additionally, EPA provides guidance and assistance for persons or organizations regarding petitions to add or delete chemicals from the TRI list.

Electronic Reporting. As observed in 2016 for reporting year (RY) 2015, **over** ninety-nine percent of all TRI Form Rs and Form As were prepared and submitted electronically using TRI-MEweb.^{13,14} Capabilities in TRI-MEweb include:

- **Easy Upload and Validation Checks.** Facilities can key, preload from a prior year submission, or upload their data into TRI-MEweb. TRI-MEweb also provides facilities with extensive data validation checking through point-of-entry edit checks as well as a cumulative, mandatory validation checks prior to submission.

¹³ Based on TRI 2015 dataset from EPA 10/13/2016.

¹⁴ Prior to TRI-MEweb, TRI reporting software had been desktop-based, distributed via the TRI Web site and mailed directly to facilities (via CD-ROM) each year. In RY 2007, TRI-MEweb, the new Web version of TRI-ME, was fully launched. The TRI-ME desktop software was retired from service in RY 2009.

- **Submittal to the Central Data Exchange (CDX).** After facilities enter and validate their data, certifying officials must electronically sign (i.e., certify) forms within TRI-MEweb.
- **Automatic Data Transmittal.** Once a facility's certifying official has certified its TRI submission, CDX automatically forwards it to the TRI Data Processing Center (DPC), which loads it into the TRI Processing System (TRIPS) database. The TRIPS database is located at EPA's National Computer Center in Research Triangle Park, NC.
- **TRI Submission shared with States.** Through the TRI Data Exchange, facilities can submit the data via CDX, which transmits the data to both EPA and the participating state government. This reporting option allows facilities to fulfill their legal obligation to report to both EPA and the appropriate state through a single transmission of data to CDX.
- **Preloaded Forms and Central Data Storage.** The TRI-MEweb application allows users to preload their forms with prior year data stored in an EPA-maintained database. This database is separate from the TRIPS database, which stores certified TRI submissions.
- **Quick Lists.** TRI-MEweb provides "quick lists" that allow users to narrow their data entry to only the pertinent areas.
- **Data Quality Checks.** TRI-MEweb contains a number of data quality checks including internal consistency and semantic checks that compare a facility's data to prior year submissions.
- **On-Line Revisions and Withdrawals.** The application allows online revision and withdrawal of data by facilities. Through this feature, facilities can access previously submitted forms, and revise or withdraw as needed.
- **Automated Section 8 Calculator.** TRI-MEweb automatically calculates Section 8 Column B (current year) estimates based on data entered in other form sections. Users may tailor the calculation's inputs, but cannot enter their own calculated values. This approach aims to reduce the frequent mathematical errors in Section 8 and simplify the reporting process.
- **TRI Assistance Library.** An online TRI Assistance Library (TRIAL) is available to help facility reporters complete their TRI submissions.

Paper-Based Reporting. As of January 21, 2014, only facilities submitting trade secret reporting forms are allowed to submit data to TRI on paper forms. Facilities submitting trade secret forms must submit two forms, one that is trade secret and one that is sanitized. The trade secret form goes into a separate database, and EPA keys the sanitized information into the TRIPS database. Automated data quality checks begin at data entry. At this point, the emphasis is on identifying forms that are not completed correctly and cannot be processed further because of fundamental errors (e.g. no chemical specified).

Data Processing and Quality Control. EPA no longer processes paper forms as of Reporting Year (RY) 2013. EPA only performs additional validation checks of electronic data that have been certified by TRI-MEweb and sent for processing into TRIPS through CDX. The validation checks look for duplicate records and determine if facility reconciliation is required before the data are released. EPA also conducts a set of data quality checks that compare the incoming data with prior years' data and various data threshold checks.

Upon passing the data validation and quality checks in TRIPS, EPA generates an electronic Facility Data Profile (eFDP) report and makes it available for facility review through TRI-MEweb. The report contains an echoing back of the data and confirms that all validation checks have passed and that the facility's data have been processed into the TRIPS database. However, as of RY 2013, the eFDP report can no longer be used by facilities to manually correct data submitted to EPA. Beginning with RY 2016, TRI-MEweb will use the terms Electronic receipt (e-Receipt) and Submission History rather than eFDP.

Database Organization. EPCRA section 313(j) requires EPA to make TRI data available to the public through computer telecommunications and other means. EPA ensures that each facility has a unique identifier—the TRI facility ID (TRIFID). EPA generates a TRIFID for newly reporting facilities at the time of data entry. The identification number allows easy retrieval of cross-year data, even when a facility is sold or changes its name. Facilities receive notification of their TRIFID and must use it consistently over time.

Links to State and Indian Country Reporting. EPCRA section 313 requires facilities to submit forms to both EPA and the state or Indian country agency in which they operate. For coordination, tracking, and quality assurance purposes, EPA, state, and Indian country agencies reconcile their submissions at the end of the reporting cycle.

In 2004, EPA implemented the TRI State Data Exchange (now referred to as the TRI Data Exchange (TDX)), which enables facilities to simultaneously submit their data to EPA and the state or Indian country in which they are located. There are currently 50 TDX participants. This reporting option allows facilities to fulfill their legal obligation to report to EPA as well as the state or tribe through the sole submission of data through CDX.

Making TRI Data Available. There are many options available for accessing TRI data - ranging from data files to refined analyses. The annual TRI National Analysis is an overview of the most recently reported TRI data. It includes key findings, in-depth analyses, and information on trends. Two on-line data access tools, TRI Explorer and Envirofacts, make TRI data available to the public for further analysis. In addition, the public can download a desktop application, TRI.NET, from the TRI website. TRI.NET allows users to build custom reports of TRI data, to view and analyze TRI data using geospatial capabilities, and to combine TRI data with other related data for further analysis. Envirofacts provides Web services that allow developers to include dynamic TRI data queries in their applications.

The TRI Program historically did not release the latest year of TRI reported data until the release of the TRI National Analysis. However, starting in 2009, EPA began releasing the most recent year of TRI data within weeks after the July 1st reporting deadline. EPA provides the TRI preliminary dataset in downloadable data files, as well as via TRI Explorer, Envirofacts and Web services. Note, however, that these data have not undergone the manual data quality checks and verifications that EPA conducts prior to the TRI National Analysis release.

List Revisions and Petition Reviews. The list of toxic chemicals subject to reporting under EPCRA section 313 may undergo changes. EPA can initiate regulatory additions or subtractions of chemicals from the list of TRI-covered chemicals, either independently or in response to a petition.

Trade Secrecy Reviews. Facilities claiming a chemical identity as a trade secret must substantiate the claim by completing the Trade Secret Substantiation Form available from the TRI website (www.epa.gov/tri) under "TRI Reporting Materials." For more

information on trade secrecy reviews, including the costs to EPA, see the ICR for the Trade Secrecy Rule for EPCRA (EPA ICR No. 1428, OMB Control No. 2050-0078).

5(b) Collection Methodology and Management

As of January 21, 2014, EPA requires electronic submission of all non-trade secret reporting forms through the Internet via EPA's CDX and the TRI-MEweb application. Note that for RY 2015, filers prepared ninety-nine percent of all TRI submissions using TRI-MEweb and submitted electronically to EPA via CDX.

5(c) Small Entity Flexibility

Under EPCRA section 313 (b)(1)(A), facilities with fewer than 10 full-time employees (or the equivalent) do not have to report. In addition, EPA has taken several steps to minimize the burden for covered small businesses. EPA added a range reporting option to the Final Rule (53 FR 4500, February 16, 1988), which codified the EPCRA section 313 reporting requirements. Range reporting was the preferred option from the Regulatory Flexibility Act analysis to provide burden reduction for small businesses. Range reporting provides an option for releases of less than 1,000 pounds to be recorded as a code representing one of three ranges (1 to 10 pounds, 11 to 499 pounds, or 500 to 999 pounds) rather than as a specific estimate of the release amount. The benefit is not, however, limited to small businesses. Note that facilities may not use range reporting on Form Rs for PBT chemicals.

In response to a petition from the Small Business Administration, EPA promulgated the alternate threshold (59 FR 61488, November 30, 1994), manifested in Form A reporting, as discussed in Section 1(b). Although any reporting facility meeting the criteria may use the alternate threshold, this alternate threshold may be particularly advantageous to small entities.

5(d) Collection Schedule

Facilities must report their information on a calendar-year basis, and submit Form Rs or Form As to EPA by July 1 of the following year. In response to public requests to shorten the time frame for release of TRI information, TRI began a modernization effort in 2007 that included transition to TRI-MEweb from desktop software, and a number of streamlining initiatives. One of the resultant improvements was the Preliminary Data Release that provides TRI database information as quickly as possible after the reporting deadline. Since 2010, EPA has released data less than one month after the reporting deadline in the TRI preliminary dataset with downloadable data files and access via TRI Explorer and Envirofacts.

6. ESTIMATING THE BURDEN AND COST OF THE COLLECTION

This information collection activity imposes burden and cost on certain facilities affected by EPCRA section 313 reporting requirements. It also imposes costs on EPA to process and make available the data collected and stored in the Toxics Release Inventory. The following sections present the derivation of Form R and Form A respondent burden and cost as well as Agency burden and cost. For TRI reporters,

the following sections present estimates of average Form R and Form A reporting burden per respondent. EPA develops unit costs by combining these form-level unit burden estimates with an appropriate wage rate. Combining the universe of reporting forms with estimates of unit burden and cost provides an estimate of Total Form R and Form A respondent burden and costs. The universe of reporting forms consists of the 2018 ICR (reference no: 2017-11-2025-003) plus an estimated 500 responses associated with PFAS chemicals added by the NDAA. The combined total number of forms and facilities (i.e., respondents) is hereafter referred to as the ICR Universe.

The methodology used to estimate reporting burden in this ICR renewal — Ratio-Based Burden Methodology (RBBM)¹⁵ — is a restructured and simplified formulation of the previously employed methodology; OMB approved this new methodology, which was published on April 28, 2011.¹⁶ When estimating reporter burden using RBBM, the Nominal Form R unit burden (35.70516 hours) is the base number and Form A unit burden is set at 61.5% of that value. These unit burdens reflect burden associated with form activities including rule familiarization, reporter compliance determination, calculations and form completion, and recordkeeping. In addition to Form R and Form A burden, total TRI Program burden is captured by adding non-form burden associated with supplier notification, non-reporter compliance determination, and petitions to form burden.

In accordance with the EPA’s RBBM methodology, certain types of modifications to forms are employed for the purpose of clarifying data elements and/or enhancing data utility and are considered not to accrue burden (See Docket ID EPA-HQ-OEI-2010-0835, “Revising TRI Burden to Ratio-based Burden Methodology,” Appendix C, Table C-5). Such changes can be so minuscule that EPA estimates them to have a negligible impact on form-related burden. The scope of these types of minuscule changes includes situations where burden associated with the data gathering and recording is negligible (and the frequency of reporting the data element is low), if a response is already implied in an existing data element (e.g., addition of an NA box), and where clarification on the reporting form is made but no new information is required. Additionally, the EPA associates no burden by convention for certain optional elements on TRI reporting forms.

OMB approved a combined Form R/Form A ICR on October 5, 2018 with an expiration date of October 31, 2021. The OMB approved burden estimate at that time was a total of 3.597 million hours. EPA is now expanding the list of toxic chemicals subject to reporting under EPCRA section 313 pursuant to the NDAA for Fiscal Year 2020. Section 7321 of the NDAA mandates the addition of certain PFAS chemicals to the list of chemicals covered by TRI and provided a framework for listing additional PFAS chemicals.

Based on the updated ICR Universe, EPA now estimates the total number of combined Form R and Form A responses to be 76,534, the associated total annual burden hours to be 3.615 million and the annual cost to be \$200.2 million (see Section 6(b) for breakdown by Form R, Form A, and non-Form contributions).

¹⁵ *Revising TRI Burden to Ratio-Based Methodology*, TRI Regulatory Development Branch, TRI Program Division, Office of Information Analysis and Access, Office of Environmental Information, January 2011, EPA Docket ID Number EPA-HQ-OEI-2010-0835; hereafter referred to as RBBM Reference Document (Docket #EPA-HQ-OEI-2010-0835), EPA, 2011.

¹⁶ As opposed to a system several large matrices containing mixed scales, this structure is four ratio models plus a base number for Nominal Form R unit burden. For mathematical derivations, see *Ibid*.

Agency burden and cost associated with the TRI Program includes RFI and Compliance Assistance; TRI Reporting Software and Related Data Collection/Exchange IT Infrastructure, and Data Processing. Section 6(b) below presents the Agency's burden and cost of these activities.

6(a) Estimating Respondent Burden

This section presents the burden of this information collection activity to Form R and Form A respondents in terms of the time required for facility personnel to perform the activities outlined in Section 3 of this document. As was done in the previous ICR, this ICR renewal uses EPA's new Ratio-Based Burden Methodology (RBBM), to estimate TRI respondent burden for both Form R and Form A reporting.¹⁷

Ratio-Based Burden Methodology simplifies calculations, supports internal consistency, and sharpens transparency while retaining the components of the previous methodology and maintaining its overall total burden estimate as a starting point.¹⁸ For activities associated with filing TRI chemical reports, RBBM burden estimates include rule familiarization, reporter compliance determination, calculations and form completion, and recordkeeping. Similarly, for activities unrelated to form reporting (non-form burden) RBBM estimates include supplier notification, non-reporter compliance determination, and preparation and submission of petitions.

Figure 1 presents the equations of RBBM's primary method: Steady State Total Burden Calculation. With RBBM's calculation of form burden, the only variables/inputs required are total counts for Form R Chemicals and Form A Chemicals. The factors/constants of the equations include: 1) Nominal Form R unit burden, in units of burden hours per Form R Chemical and 2) A/R,¹⁹ a model for the ratio of Form A (single-chemical)²⁰ to Form R burden.

As shown in Figure 1, multiplying the Nominal Form R unit burden by the number of Form R Chemicals provides an estimate of the total Form R burden. Similarly, multiplying the Form A unit burden (formulated as the product of A/R and Nominal Form R unit burden) by the number of Form A Chemicals provides an estimate of the total Form A burden.

¹⁷ For references on methodology development, see RBBM Reference Document (Docket #EPA-HQ-OEI-2010-0835), EPA, 2011.

¹⁸ At the time of transition (the start of the 2008 ICR), the comparison between totals is exact. Later, in an interim spot-check (April 2010), totals were within 2%.

¹⁹ In A/R, Form A unit burden is derived using the activities associated with the subset of elements from Form R that a reporter would complete in order to determine TRI reporting eligibility and file a Form A, ensuring internal consistency. For further details, see RBBM Reference Document (Docket #EPA-HQ-OEI-2010-0835), EPA, 2011.

²⁰ Although Form A permits multiple chemical reports on the same form (on average 2.26 Chemicals per Form A), for purposes of methods development and modeling, EPA works with chemical counts, referring to "Form R Chemicals" and "Form A Chemicals."

Figure 1
Ratio-Based Burden Methodology^a
Two Burden Factors; Two Chemical Counts; One Wage Rate

Steady State Total Burden Calculation

(1) Steady State Total Burden = Form R Burden + Form A Burden + Non-Form Burden

Where:

Form R Burden = (Number of Form Rs) × (Nominal Form R Unit Burden)

Form A Burden = (Number of Form As) × (A/R) × (Nominal Form R Unit Burden)

*Non-Form Burden = Supplier Notifications + Non-Reporter Compliance Determination
+ Petitions*

And:

A/R, Ratio of Form A Burden to Form R Burden = 0.615

Nominal Form R Unit Burden = 35.70516 hours per Form R Chemical

Form A Unit Burden (derived) = 21.95867 hours per Form A Chemical

*(2) Steady State Total Cost = Steady State Total Burden * (WAWR)*

And:

WAWR, Weighted Average Wage Rate = \$55.38/hr^b

^a For a complete description of the Ratio-Based Burden Methodology, see “Revising TRI Burden to Ratio-Based Methodology” (RBBM Reference Document -Docket #EPA-HQ-OEI-2010-0835, EPA, 2011).

^b Based on June 2016 wage data (as of September 8, 2016). Source: .

EPA considers the burden estimates it uses to be average values for the reporting community overall. As with any average, some facilities will be above the average, and others will be below it. Large, complex facilities may require more than the average time to comply; however, many other facilities subject to the rule are not large or complex. Overall, EPA considers the TRI Program burden estimates to be reasonably representative of the reporting community overall, on average.

Form R and Form A Respondent Requirements

Facilities engage in a number of activities to comply with the EPCRA section 313 reporting requirements. These activities can be divided into two distinct groups: Form Activities, consisting of rule familiarization, reporter compliance determination, calculations and form completion, and recordkeeping and submission; and Non-Form Activities consisting of supplier notification, non-reporter compliance determination, and petitions. Section 4(b)(ii) presents a detailed description of these activities.

Form Activities

- Rule Familiarization
- Reporter Compliance Determination

- Calculations and Form Completion
- Recordkeeping and Submission

Non-Form Activities

- Supplier Notification
- Non-Reporter Compliance Determination
- Petitions

Note that for burden unrelated to reporting on a Form R or Form A (Non-Form Activities), the RBBM simplifies calculations by holding all of these values at a constant level, as estimated in the 2008 ICR renewal.²¹

Updating Nominal Form R and Form A Unit Burdens

On December 20, 2019 the NDAA for Fiscal Year 2020 was signed into law. Section 7321 of the NDAA adds certain PFAS chemicals to the EPCRA section 313 list of reportable toxic chemicals as of January 1, 2020. Specifically, the NDAA identifies 14 chemicals by name and/or Chemical Abstract Service Registry Number (CASRN) in section 7321(b) and identifies additional PFAS based on the following criteria:

- “(i) listed as an active chemical substance in the February 2019 update to the inventory under section 8(b)(1) of the Toxic Substances Control Act (15 U.S.C. 2607(b)(1)); and (ii) on the date of enactment of this Act, subject to the provisions of—
- (I) section 721.9582 of title 40, Code of Federal Regulations; or
 - (II) section 721.10536 of title 40, Code of Federal Regulations.”

EPA is currently reviewing the above-listed criteria. It is anticipated that the requirements of the NDAA result in more than 150 chemicals being added to the TRI list of chemicals.

As established by the NDAA, the addition of these PFAS have an effective date of January 1, 2020. Accordingly, these PFAS are reportable for the 2020 reporting year (i.e., reports due July 1, 2021).

Using information submitted to EPA’s Chemical Data Reporting (CDR) program, EPA estimates that approximately 500 additional responses will be submitted due to the NDAA²², resulting in an increased estimated burden of 17,853 hours. EPA has previously estimated that approximately 4% of facilities reporting due to an expansion of the TRI list of chemicals will not have previously reported to TRI. As such, it is anticipated that 4% of the 500 reports will come from facilities that are new to the regulated community.²³

Table 3 presents the average annual burden hour estimates by form type.

²¹ RBBM Reference Document, EPA, 2011. This document is available via <https://www.regulations.gov> under Document ID No. [EPA-HQ-OEI-2010-0835-0004](https://www.regulations.gov)

²² Hofmann, A. (2020, January 3). Emergency Processing Request for Toxic Chemical Release Reporting. Available at: https://www.reginfo.gov/public/do/PRAViewDocument?ref_nbr=202001-2070-001

²³ The *Economic Analysis of the Proposed Rule to Add Nonylphenol Ethoxylates to the EPCRA Section 313 List of Toxic Chemicals* (2017) estimates that 3.8% of affected facilities will be first time filers for the Toxics Release Inventory. This document is available via <https://www.regulations.gov> under Document ID No. [EPA-HQ-TRI-2016-0222-0147](https://www.regulations.gov)

**Table 3
Reporter Average Annual Burden Estimate by Form Type**

Form Type	Unit Burden (Hours) per Form
Form R	35.70516
Form A	21.95867
Notes: 1) Unit burdens include burden for all activities associated with filing a form, whether incurred at the facility level or the form level, including reporter compliance determination, rule familiarization, calculations and report completion, and recordkeeping and submission. 2) Form A unit burden is set at 61.5% of nominal Form R unit burden. 3) Burden per form does not include non-form burden (supplier notification, petitions, and non-reporter compliance determination).	

Any given facility may file only Form Rs, only Form As, or a combination of Form Rs and Form As. Table 4 provides more details on the distribution of reporting by form type among facilities. Note also that for a given Form A filing (where multiple chemicals can be reported on a single form), the average number of chemicals reported is 2.26. Overall, each facility reports an average of 3.73 chemicals (Rs and A's), with 11.3% of all chemicals filed via Form As.

**Table 4
Form per Facility Distribution
(Based on 2018 ICR with updates to reflect additional reporting due to the NDAA adding certain PFAS chemicals)**

Form per Facility Distribution	Unique Facilities	Chemicals			Average Chemicals per Facility		
		Form R	Form A	Total	Form R	Form A	Total
Form A Only	1,919	0	3,931	3,931	0.00	2.05	2.05
Form R Only	17,786	63,896	0	63,896	3.59	0.00	3.59
Both Form R & Form A	2,171	8,548	5,313	13,861	3.94	2.45	6.38
Total	21,876	72,444	9,244	81,688	3.31	0.42	3.73
Notes: 1) Calculations are based on 2018 ICR plus additional forms resulting from the NDAA adding certain PFAS chemicals. It is estimated that under the rule, an additional 500 non-PBT chemical Form Rs will be reported and 20 new facilities will be added to the regulated community. 2) Approximately 74% percent of affected facilities filed three or fewer Form R chemicals in RY 2015. The most common number of Form R chemicals reported is one. 3) Approximately 94% percent of affected facilities filed two or fewer Form A chemicals in RY 2015. The most common number of Form A chemicals reported is zero (by facilities reporting Form A, the most common number of Form A chemicals reported is one). 4) The average number of Form A chemicals per Form A is 2.26. 5) The total average number of chemicals per facility across all types of facilities filing the form (Form A only, Form R only, Both Form R and Form A) is calculated by dividing the total number of chemicals by the total number of unique facilities.							

Table 5 presents the annual estimated burden hours for the overall average conditions. These estimates represent the burden on a "typical" facility as defined by the facility filing the average number of chemicals (as represented by overall averages). As shown in Table 4, there are a variety of patterns for Form R and Form A Chemical filings by facility. Section 6(d) discusses the total annual burden to all facilities.

Table 5
Form R and Form A Reporter Typical Annual Burden Based on
Average Conditions per Facility in Steady State Burden Calculation

Form Type	Annual Average Facility Burden (Hours)
Form R Contribution [35.70516 hours per chemical × 3.31 chemicals per facility]	118.184
Form A Contribution [21.95867 hours per chemical × 0.42 chemicals per facility]	9.223
Overall Average	127.407

6(b) Estimating Respondent Costs

EPA calculates the steady state total cost to respondents based on the time needed to complete the activities listed in Section 6(a) and the weighted average wage rate (WAWR), which is the average loaded cost for a mix of managerial, technical, and clerical labor (in proportions of .03, .89, and .08, respectively) per hour of TRI reporter burden.²⁴ There are no specific capital and operation and maintenance costs associated directly with this information collection activity. There may be some small additional costs for mailing and supplies, although with the recent promulgation of the electronic reporting rule, these costs are minimized. Section 6(d) discusses total annual costs for all facilities.

(i) Estimating Labor Costs

EPA estimates labor burden for three separate labor categories (management, technical, and clerical) across multiple activities; it is necessary to obtain wage rates for each labor category in order to estimate labor costs and compute WAWR, as shown in Table 6.

Table 6
Derivation of the Weighted Average Wage Rate (WAWR)
(June 2016)

Wage Type (Burden Proportion)	Managerial (0.03)	Technical (0.89)	Clerical (0.08)	WAWR Composite
Occupational Type	Management, business, and financial	Professional and related	Office and administrative support	Weighted hourly wage rate
Wages and Salaries	\$46.64	\$35.76	\$16.89	
Total benefits	\$22.73	\$15.30	\$7.41	
Overhead	\$7.93	\$6.08	\$2.87	
Total Loaded Rate	\$77.30	\$57.14	\$27.17	
WAWR Contribution	\$2.39	\$50.82	\$2.16	\$55.37

Table 7 summarizes average respondent costs for Form R and Form A.

²⁴ For the derivation and justification of the WAWR, see RBBM Reference Document (Docket #EPA-HQ-OEI-2010-0835), EPA, 2011.

Table 7
Form R and Form A Reporter Typical Annual Cost Estimate Based
on Average Conditions per Facility in Steady State Burden
Calculation

Form Type	Annual Average Facility Cost
Form R Contribution [35.70516 hours per chemical × 3.31 chemicals per facility × \$55.38]	\$6,545.03
Form A Contribution [21.95867 hours per chemical × 0.42 chemicals per facility × \$55.38]	\$510.75
Overall Average	\$7,055.75

Note that these estimates assume non-form burden to be a constant at 825,517 hours with an associated cost of \$45,717,131. The components of this burden are:

- Petitions – 925 hours
- Supplier Notification – 89,616 hours
- Non Reporters’ Compliance Determination – 734,976 hours

EPA estimates the total cost associated with non-form burden by multiplying this constant by the WAWR (see Section 6(d) for total respondent cost associated with the TRI Program).

(ii) Estimating Capital and Operations and Maintenance Costs

EPA believes that the capital or operations and maintenance costs of this program are insignificant. TRI facilities use the online reporting system to submit annual reporting forms and EPCRA provides that the TRI reporting does not require the monitoring or measurement of the quantities, concentration, or frequency of any toxic chemical released into the environment beyond that monitoring and measurement required under other provisions of law or regulation.

(iii) Capital/Start-up vs. Operating and Maintenance (O&M) Costs

There are no capital/start-up costs or O&M costs associated with this information collection.

(iv) Annualizing Capital Costs

There are no capital costs associated with this information collection.

6(c) Estimating Agency Burden and Cost

This section estimates the burden and costs to EPA to process Form R and Form A reports based on information characterizing the resources used in previous years. EPA incurs burden and costs for three categories of activities: RFI and Compliance Assistance; TRI Reporting Software and Related Data Collection and Exchange; and Data Processing. Table 8 outlines these activities in detail.

Table 8
EPA Activities for Collecting, Processing, and Managing TRI Data

Category	Description
Reporting Forms and Instructions (RFI) and Compliance Assistance	<ul style="list-style-type: none"> • Revising the TRI Reporting Forms and Instructions (RFI) • Updating the online TRI Training Modules • Providing technical and regulatory support hotlines • Providing online Frequently Asked Questions and Answers
TRI Reporting Software and Related Data Collection and Exchange	<ul style="list-style-type: none"> • Revising the TRI-MEweb reporting software • Pre-populating TRI-MEweb with facility information from the previous year • Providing support for facilities to submit and certify their TRI reports using TRI-MEweb and the Central Data Exchange • Supporting simultaneous reporting to EPA and the States for facilities that are located in states that participate in the TRI State Data Exchange • Related infrastructure investments and program management for TRI-MEweb and the TRI Data Exchange
Data Processing	<ul style="list-style-type: none"> • Processing the submitted data • Conducting data quality checks • Entering data from paper forms into the TRI Processing System (TRIPS) – trade secret reports only • Disseminating data files for use in TRI-related applications • Related infrastructure investments and program management for TRIPS

Table 9 presents the estimate of EPA burden specific to RFI and Compliance Assistance, TRI Reporting Software and Related Data Collection and Exchange, and Data Processing, in terms of Agency costs and number of FTEs.

Table 9
Agency Costs and FTEs to Support the Collection, Processing, and Management of TRI Form Submissions^a

Description	Non-FTE Cost	FTE^b
RFI and Compliance Assistance	\$95,000	1.1
TRI Reporting Software and Related Data Collection/Exchange IT Infrastructure	\$2,097,472	2.1
Data Processing	\$1,634,320	2.0
Total		5.2
Subtotal	\$3,826,792	\$854.156
Agency Grand Total: \$4,680,948		
^a E-mail communication with TRI Data Processing Center, November 17, 2016.		
^b Based on actual headcounts for RY2016. Assume GS-13, Step 1 (DCB locality) for associated \$s, with a 160% multiple to address overhead and benefits.		

The estimated data processing costs include fixed costs (overhead) and variable costs, which depend on the number and type of form submissions. The cost of processing TRI forms is approximately \$59.50 per chemical for paper submissions (the cost of processing a Trade Secret Form) and \$6.80 per chemical for *TRI-MEweb* submissions.²⁵ Based on reporting year 2015, the total annual Agency cost for items, as shown in Table 9, is \$4,680,948.

6(d) Estimating the Respondent Universe and Total Burden and Costs

Estimated Total Annual Burden for All Respondents

This section presents the total annual burden hours for all respondents, incorporating both form and non-form burden (see detailed bases in Section 6(a)). EPA uses the Steady State Total Burden method to estimate the total burden hours for all respondents under this ICR, as depicted in Figure 1. EPA calculates Form R burden and Form A burden using unit burdens and single-chemical form counts; non-Form burden is a constant. These three burden components sum to calculate the Steady State Total Burden. Table 10 shows the assumed universe of TRI facilities and forms for both Form Rs and Form As for this ICR renewal.

Table 10
ICR Universe of TRI Facilities and Forms
(Based on 2018 ICR with updates to reflect additional reporting due to the NDAA adding certain PFAS chemicals)

ICR Universe	Form R	Form A
	Number of Chemicals (Same as Number of Forms)	Number of Chemicals (Average of 2.26 Chemicals per Form)
Number of Facilities	19,957	4,090
Number of PBT Chemicals	14,153	0
Number of Non-PBT Chemicals	58,291	9,244
Number of Total Chemicals	72,444	9,244
Notes:		
1) The sum of facilities reporting Form R and Form A above does not equal 21,876 because some facilities report both Form Rs and Form As (see Table 4). The average number of Form R chemicals per facility is 3.31. The average number of Form A chemicals per facility is 0.42. The average number of chemicals per facility is 3.73.		
2) The number of Form As is equal to the number of facilities reporting Form A chemicals (4,090). The number of chemicals per Form A is 2.26 (9,244 Form A chemicals ÷ 4,090 Form As). Note that burden per Form A chemical is the key unit for tracking burden associated with a Form A, and that the conversion to number of Form As (i.e., number of Form A responses) is done to satisfy certain burden accounting and reporting requirements.		
3) Due to the NDAA adding certain PFAS chemicals, it is estimated that under the rule, an additional 500 non-PBT chemical Form Rs will be reported and 20 new facilities will be added to the regulated community.		

Table 11 presents the total annual burden estimates for both Form R and Form A.

²⁵ E-mail communication with TRI Data Processing Center, November 17, 2016.

Table 11
Total Annual Burden Estimate

Form Type	Unit Burden (Hours) Per Form	Number of Responses	Number of Form R or A Chemicals	Steady State Total Burden (Hours)
Form R	35.70516	72,444	72,444	2,586,625
Form A	21.95867	4,090	9,244	202,986
Non-Form (constant)	—	—	—	825,517
Total	—	—	—	3,615,128

Estimated Total Annual Cost for All Respondents

EPA determined the total annual reporting cost for all respondent facilities by multiplying the WAWR by the steady state total burden. Table 12 presents the total annual reporting cost for Form R and Form A.

Table 12
Total Annual Cost Estimate
(June 2016 dollars)

Form Type	WAWR	Steady State Total Burden	Steady State Total Cost
Form R	\$55.38	2,586,625	\$143,247,271
Form A	\$55.38	202,986	\$11,241,362
Non-Form (Constant)	\$55.38	825,517	\$45,717,131
Total		3,615,128	\$200,205,764
<small>Note: WAWR is based on June 2016 BLS wage data from Table 9 of the Employer Costs for Employee Compensation news release (https://www.bls.gov/news.release/ecec.t09.htm).</small>			

6(e) Bottom-Line Burden Hours and Cost Tables

This section presents the total burden and cost to the regulated industry to comply with the information collection requirements under EPCRA section 313 and under PPA section 6607, as well as the cost to EPA to process Form R and Form As annually.

(i) Respondent Tally

Table 13 presents the total burden and cost for complying with EPCRA section 313 for current and new reporting requirements.

**Table 13
Total Annual Burden and Cost**

Activity	Number of Facilities	Number of Responses^d	Annual Burden (Hours)	Annual Costs
Form R Reports	19,957	72,444	2,586,625	\$143,247,271
Form A Reports	4,090	4,090	202,986	\$11,241,362
Non-Form (Constant)			825,517	\$45,717,131
Total	21,876	76,534	3,615,128	\$200,205,764

^a The total number of facilities reporting (21,876) is not equal to the sum of Form R and Form A respondents as some facilities may file both Form Rs and Form As.
^b The average number of responses per respondent is 3.499.
^c The basis for the estimates of facilities and responses is derived from the 2018 ICR reporting with updates to reflect the estimated impacts of the NDAA adding certain PFAS chemicals.
^d More than one chemical may be filed in each Form A.

(i) The Agency Tally

EPA estimates the total annual program burden to the Agency to be \$3.83 million, and 5.2 FTEs. These costs reflect the burden to conduct the EPA activities described above.

(i) Variations in the Annual Bottom Line

EPA does not expect significant variation in the annual respondent reporting/recordkeeping burden and cost over the course of the ICR approval period.

6(f) Reasons for Change in Burden

This ICR submittal merges the existing ICR (2025-0009, approved by OMB on October 15, 2018) into this ICR number (2070-0212), created to cover the expanded list of toxic chemicals subject to reporting under the NDAA for Fiscal Year 2020, to provide for a single control number. The approved burden under the existing ICRs remains unchanged.

6(g) Burden Statement

EPA estimates the annual public burden for form calculations such as rule familiarization, compliance determination, calculations and form completion, and recordkeeping, which is approved under OMB Control No. 2025-0009, to average 35.70516 hours per response for a facility filing a Form R and 21.95867 hours for a facility filing a Form A for one chemical. Burden is defined in 5 CFR 1320.3(b). An agency may not conduct or sponsor, and a person does not have to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations in title 40 of the CFR, after appearing in the Federal Register, are listed in 40 CFR part 9 and included on the related collection instrument or form, if applicable.

The Agency has established a public docket for this ICR under Docket ID No. EPA-HQ- OPPT-2020-0078, which is available for online viewing at www.regulations.gov, or in-person viewing at the Pollution Prevention and Toxics Docket in the EPA Docket Center (EPA/DC). The EPA/DC Public Reading Room is located in the EPA West Building, Room 3334, 1301 Constitution Ave., N.W., Washington, DC. The EPA/DC Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the EPA/DC Public Reading Room is (202) 566-1744, and the telephone number for the Pollution Prevention and Toxics Docket is (202) 566-0280.

You may submit comments regarding the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden, including the use of automated collection techniques. Submit your comments, referencing Docket ID No. EPA-HQ-OPPT-2020-0078 and OMB Control No. 2070-0212, to (1) EPA online using www.regulations.gov (our preferred method), or by mail to: Pollution Prevention and Toxics Docket, Environmental Protection Agency Docket Center (EPA/DC), Mailcode: 28221T, 1200 Pennsylvania Ave., N.W., Washington, DC 20460, and (2) OMB by mail to: Office of Information and Regulatory Affairs, Office of Management and Budget (OMB), Attention: Desk Officer for EPA, 725 17th Street, N.W., Washington, DC 20503.

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Community Right-to-Know; Adoption of 2012 North American Industry Classification System (NAICS) Codes for Toxics Release Inventory (TRI) Reporting. 40 CFR Part 372. EPA Docket ID Number EPA-HQ-OEI-2012-0110. Federal Register Vol. 78 No. 119. June 20, 2013.

Electronic Reporting of Toxics Release Inventory Data. 40 CFR Part 372. EPA Docket ID Number EPA-HQ-TRI-2011-0174. Federal Register Vol. 78 No. 166. August 27, 2013.

APPENDICES

- Appendix A: Information Sources Containing Data Subsets, but not Comprehensively Comparable Alternatives to TRI
- Appendix B. TRI Consultation Meetings

Appendix A: Information Sources Containing Data Subsets, But Not Comprehensively Comparable Alternatives to TRI Data

In this appendix, data elements available from several information sources are compared to those reported to TRI. The analysis is broken down by the specific types of data collected under TRI. While some sources may appear to be substitutes for TRI, they do not adequately address the entire scope of TRI, even in combination. For example, a given source may:

- Not include all toxic chemicals covered by TRI,
- Be compiled less frequently than TRI, and/or
- Not be as easily accessible (if at all) to the general public.

**Table F-1: Relevant Information Sources
(TRI Included for Comparison)**

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
TRI DATA				
EPCRA §313 requires facilities to submit reports on releases (including disposal) of particular toxic chemicals exceeding a given threshold. The reports provide information on the quantity of chemical released into the environment and to which medium (air, land, water) the disposal took place, as well as information about waste management and the amount of chemicals stored on-site.	The current TRI toxic chemical list contains 595 individually-listed chemicals and 31 chemical categories (including four categories containing 68 specifically-listed chemicals).	NAICS codes corresponding to SIC codes 20-39, 10; 12; 4911, 4931, 4939; 4953; 5169; 5171; and 7389. A facility need only report if it has 10 or more Full Time Equivalents (FTEs).	Annual.	EPA compiles the TRI data and makes them available through several data access tools, including TRI Explorer and Envirofacts. Other organizations also make the data available to the public through their own data access tools.

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
AIR EMISSIONS (SECTIONS 5.1 AND 5.2)				
National Emissions Inventory (NEI)				
NEI provides estimates of anthropogenic pollutant emissions from stationary sources, as well as area sources and mobile sources. These estimates, submitted to EPA by delegated authorities (state or county), electric utilities, and/or generated by EPA from various sources, differ in estimation methodology used.	8 CAPs and 187 HAPs.	No NAICS limitations.	Triennial.	CSV files can be downloaded from EPA's Web site.
Air Facility System (AFS)				
AFS contains compliance and permit data for stationary sources of air pollution regulated by U.S. EPA, and state and local air pollution agencies.	N/A	No NAICS limitations.	Annual.	Can be accessed on a facility-by-facility basis through EPA data access tools, including Envirofacts or the Enforcement and Compliance History Online (ECHO).
State Air Emissions Inventories				
Several states and regional agencies maintain their own air emissions inventories. However, the amount of data as well as the types of data elements collected vary widely from state to state.	Varies widely (e.g., the California Air Resources Board maintains its own list of about 400 toxic air pollutants).	Varies.	Varies.	Most of these data are submitted to NEI. Some data are available on the Web on a state-by-state basis.
Title V Part 70 Operating Permits				
Under the 1990 Clean Air Act Amendments, facilities designated as "major sources" and facilities otherwise subject to §112 and Title V must apply for a Title V Part 70 Operating Permit. As part of the application for a Title V permit, some facilities may have to report emissions of air toxics.	187 HAPs.	No NAICS limitations.	At the time of permit application, renewal, and modification—permits are typically renewed every 5 years.	No central repository for the information.

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
DIRECT DISCHARGES TO WATER (SECTION 5.3)				
Integrated Compliance Information System–National Pollutant Discharge Elimination System (ICIS-NPDES)				
<p>ICIS-NPDES is a national information management system that tracks implementation of the National Pollutant Discharge Elimination System (NPDES) program, authorized by the Clean Water Act. ICIS-NPDES tracks permit issuance, permit limits, self-monitoring data, compliance data and other data pertaining to facilities regulated under NPDES.</p>	<p>Contains monthly discharge monitoring data for selected water parameters/pollutants and flow rates for all CWA major and many minor sources.</p>	<p>No NAICS limitations.</p>	<p>Major permittees must submit Discharge Monitoring Reports (DMRs) monthly or quarterly; non-major permittees must submit at least annually.</p>	<p>Can be accessed on a facility-by-facility basis through EPA data access tools, including Envirofacts, and ECHO.</p>

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
UNDERGROUND INJECTION AND LAND DISPOSAL ON-SITE (SECTIONS 5.4 AND 5.5)				
RCRA Biennial Reports				
<p>Section 3002(a)(6) of the Resource Conservation and Recovery Act (RCRA) requires EPA to develop a program for hazardous waste generators to report the nature, quantities, and disposition of hazardous waste generated at least once every two years. In addition, section 3004(a) (2) of RCRA requires treatment, storage and disposal facilities (TSDFs) to submit a report on the wastes that they receive from off-site. The biennial Hazardous Waste Report (also known as the “Biennial Report”) was implemented in 1985 to comply with these requirements. The Biennial Report form (8700-13A/B) must be submitted to the authorized state agency or the EPA Regional Office by March 1st of every even-numbered year. The form includes information such as the facility's RCRA ID number, the name and address of the facility, the quantity of hazardous waste sent to each TSDF in the United States and the manner in which the waste was treated during the previous year.</p>	<p>Contains annual volumes of RCRA wastes and how they are managed (offsite in the case of Large Quantity Generator and on-site in the case of treatment storage and disposal Facilities, TSDFs). Each waste stream is characterized by all applicable waste codes but volumes of each are not broken out.</p>	<p>No NAICS limitations; however, certain waste categories are excluded (e.g., mining and agriculture).</p>	<p>Biennial.</p>	<p>Can be accessed on a facility-by-facility basis through EPA data access tools, including Envirofacts. Text files can be downloaded from EPA’s Web site.</p>
DISCHARGES TO A POTW (SECTION 6.1)				
RCRA Biennial Reports (BR)				
<p>Biennial Reports require some reporting of discharges to POTWs. See above for more details.</p>	<p>See above.</p>	<p>See above.</p>	<p>See above.</p>	<p>See above.</p>
ICIS-NPDES				

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
ICIS-NPDES allows for reporting of indirect discharges to water. See above for more details.	See above.	See above.	See above.	See above.
TRANSFERS TO OTHER OFF-SITE LOCATIONS (SECTION 6.2)				
RCRA Biennial Reports (BR)				
Biennial Reports contain hazardous waste data from large quantity generators and TSDFs. Biennial Reports also require reporting of off-site transfers on Form GM. Information includes the RCRA ID of the facility to which the waste was shipped, the processes used to treat, recycle, or dispose of the waste at the off-site facility, the off-site availability code, and the total quantity of waste shipped during the report year. The reports also provide data on the volume of hazardous waste shipped off-site for land disposal, a release end-point of relevance to TRI. See above for more details.	See above.	See above.	See above.	See above.
CHEMICAL STORAGE AND INVENTORY DATA (SECTION 4.1)				
EPCRA §312 Tier I and II Reports				
EPCRA §312 requires that states establish plans for local chemical emergency preparedness and that inventory information on hazardous chemicals be reported by facilities to state and local authorities.	Hazardous or extremely hazardous substances (essentially any substance that poses a health or physical hazard).	No NAICS exemptions for facilities that are covered under the reporting threshold requirements, but facilities not included under OSHA's Hazard Communication Standard (e.g., mines) do not have to file.	Annual.	On a facility-by-facility basis, by forwarding a written request.
Risk Management Plan (RMP)				

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
Under the authority of section 112(r) of the <u>Clean Air Act</u> , the <u>Chemical Accident Prevention Provisions</u> require facilities that produce, handle, process, distribute, or store certain chemicals to prepare a Risk Management Plan (RMP) and submit the RMP to EPA. These plans include information about chemical amounts stored and processed at RMP facilities.	Certain flammable and toxic substances.	No NAICS limitations.	At least every five years, or within six months of an incident.	Restricted access: RMP information may be accessed via the Federal Reading Rooms.
Chemical Data Reporting (CDR)				
Under TSCA Section 8(a), chemical manufacturers (including importers) are required to report manufacturing-related information to EPA for sites that manufactured (including imported) 25,000 pounds or more of a reportable chemical substance any one calendar year between submission periods. Industrial processing and use information and commercial and consumer use information must also be reported for these sites.	Varies.	Limited to manufacturers, including importers, of subject chemicals. Certain manufacturers are exempt, including small manufacturers (sales <\$40 million), those manufacturing a chemical for research and development, those manufacturing chemicals as impurities, and those submitting information under another TSCA Section 8a rule.	Every four years.	Data claimed as Confidential Business Information (CBI) are not available to the public. Non-CBI data downloads are available from EPA's CDR website.
POLLUTION PREVENTION DATA (SECTIONS 8.1-8.7; 8.10)				
RCRA Biennial Reports (BR)				
Biennial Reports contain pollution prevention information on hazardous waste from large quantity generators and TSDFs. Data are collected primarily by states, and are collated by EPA. See above for more details.	See above.	See above.	See above.	See above.
State Environmental Agency Databases				

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
At least fourteen states ²⁶ implement mandatory pollution prevention programs. Pollution prevention data collected under these programs varies by state, and may include both data similar to that collected by TRI (e.g., quantities of waste managed, source reduction activities, etc.) and details not found in TRI (e.g., pollution prevention plans, costs associated with waste management, etc.).	Varies.	Varies. May include TRI filers, facilities that use toxic chemicals, and generators of hazardous waste.	Varies.	There is no central source for state collected pollution prevention data. Accessibility varies by state.
EMERGENCY RELEASE DATA (SECTION 8.8)				
National Response Center (NRC)				
NRC collects real-time information about virtually all oil and chemical spills throughout the United States to identify spills for which to coordinate emergency response.	Oils and chemicals.	No source exemptions.	Real-time.	Historical information about spills can be retrieved through the NRC online query system: www.nrc.uscg.mil/foia.html .
Risk Management Plan (RMP)				
RMP contains a five-year accident history for each facility with details on releases of regulated substances from covered processes with 1) on-site deaths, injuries, or significant property damage; or 2) known off-site deaths, injuries, property damage, environmental damage, evacuations, or sheltering in place. See above for more details.	See above.	See above.	See above.	See above.

²⁶ Arizona, California, Georgia, Maine, Massachusetts, Minnesota, Mississippi, New Jersey, New York, Oregon, Tennessee, Texas, Vermont, and Washington.

Description	Chemical Coverage	Industry/Facility Coverage	Reporting Frequency	Public Access
STATE RIGHT-TO-KNOW PROGRAMS				
Several states require expanded state TRI reporting to include industries or facilities not covered by TRI or to report information beyond that required by the federal TRI Program (e.g., Arizona, Massachusetts, and Wisconsin).	Varies. Often identical to TRI.	Varies. May include more industries than TRI.	Annual.	There is no central source for state collected data. Accessibility varies by state.

Appendix B: TRI Consultation

- May 11, 2020: Teleconference with The Chemours Company to discuss TRI PFAS listing
- April 16, 2020: Webinar on TRI Reporting and New Requirements for PFAS Chemicals
- April 7, 2020: Presented to American Coatings Association members on PFAS added to the TRI chemical list
- March 10, 2020: Teleconference with Department of Defense EPCRA/TRI Workgroup to discuss PFAS added to the TRI chemical list
- February 19, 2020: Discussed PFAS addition to TRI with Citizens for Safe Water Around Badger
- January 19, 2020: Presented to American Chemistry Council members on PFAS added to the TRI chemical list