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Nonpoint Best Practices

Speakers:

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David Cooley and Hannah Derrick (Abt Associates, Inc.)

Nonpoint Best Practices

This training is intended for state, local, or tribal inventory developers and will focus on how to submit the best available data for the Nonpoint data category in a timely manner, with emphasis on key components and quality assurance.

There is only minor high-level overlap with the EIS and NEI Training provided earlier this morning. Refer to that training for more details on how to use EIS for submittals, viewing emissions in EIS, and EIS feedback and comparison reports.

Schedule and Topics: 1pm to 5pm

1:00PM –1:20PM	Welcome and Introduction <ul style="list-style-type: none"> • What is Nonpoint? • How is the inventory put together? What is an SCC? • How do we select Data for the NEI? 	2:45PM- 3:00PM	Nonpoint Survey <ul style="list-style-type: none"> • The Easy Button • Quick Walk Through • Scenarios
1:20PM – 1:30PM	The Cheat Sheet, or Nonpoint Data Category Guide for New Submitters <ul style="list-style-type: none"> • Sign Up for Site Access • Trainings & Manuals & Documentation • NP Survey • Submitting Data to EPA 	3:00PM- 3:30PM	Submitting Your Own Emissions Estimates <ul style="list-style-type: none"> • Documentation and Inputs • Expected Pollutants List • Bridge Tool/ENSC • Feedback Reports • Augmentation
1:30PM — 1:45PM	Meeting Your Nonpoint Requirements <ul style="list-style-type: none"> • Options for Submitting • How Do I Decide? • Do's and Don'ts 	3:30PM- 3:45PM	BREAK
1:45PM- 2:30PM	Wagon Wheel and Input Template Training: Abt Associates <ul style="list-style-type: none"> • Wagon Wheel • Input Templates • Activity Data Tracker • WW Release Dates 	3:45PM- 4:00PM	EPA QA on Nonpoint Submittals <ul style="list-style-type: none"> • Iterative QA Reports • Completeness Reports
2:30PM- 2:45PM	BREAK	4:00PM- 4:45PM	ICI Fuel Combustion Point Source Subtraction: Abt Associates
		4:45PM- 5:00PM	Key Dates for 2023 NEI Development <ul style="list-style-type: none"> • AERR: Proposed Additions and Changes for Nonpoint Sources • Overall Schedule • CMV, Rail and Fires • Rest of Nonpoint and Proposed AERR

What do we mean by nonpoint?

- Definition: Collection of individual sources that :
 - Not point or mobile source
 - Compiled as a county total
 - Too small, numerous, or difficult to inventory as another data category
- May omit categories that represent de minimis percentage
- Difficulties:
 - Not too many measurements
 - Try to apply a one size fits all approach
 - Countywide estimates
 - Different methodologies
 - No good yardstick



Nonpoint examples

- A disparate “catch-all” of stationary sources
 - Biogenic and soil emissions
 - Small-scale fuel combustion (industrial, commercial/institutional, residential)
 - Solvent utilization
 - Agricultural from livestock waste & fertilizer application
 - Most oil and gas exploration and production
 - Miscellaneous sources like agricultural field burning, various types of dust, non-combustion Hg, to literally cats and dogs
- Also includes non-MOVES mobile sources
 - Commercial Marine Vessels
 - Rail
 - In-flight Lead estimates
- All wildland fires (formerly “Events”), though data developed at fire locations and aggregated to county level for Nonpoint

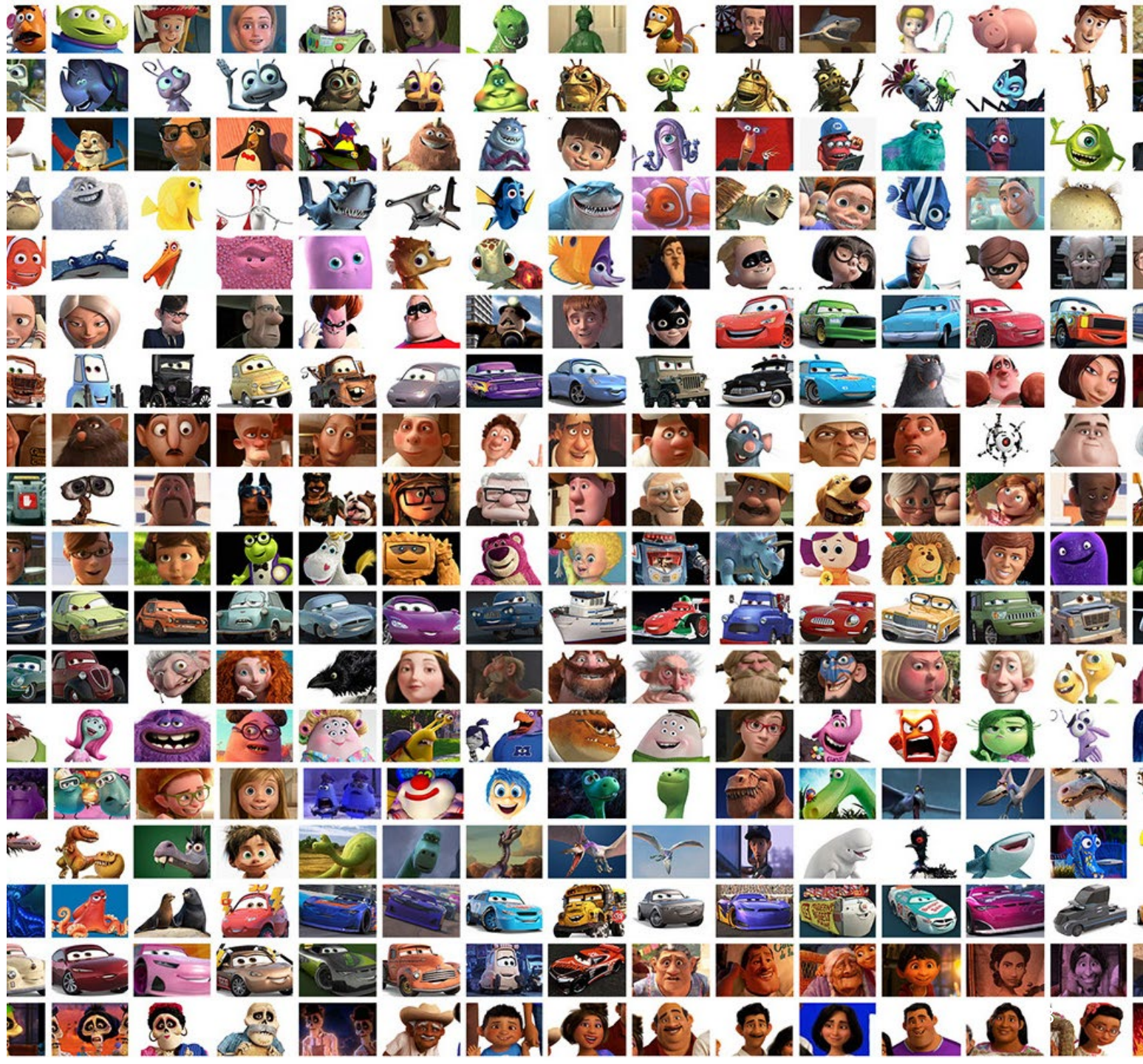


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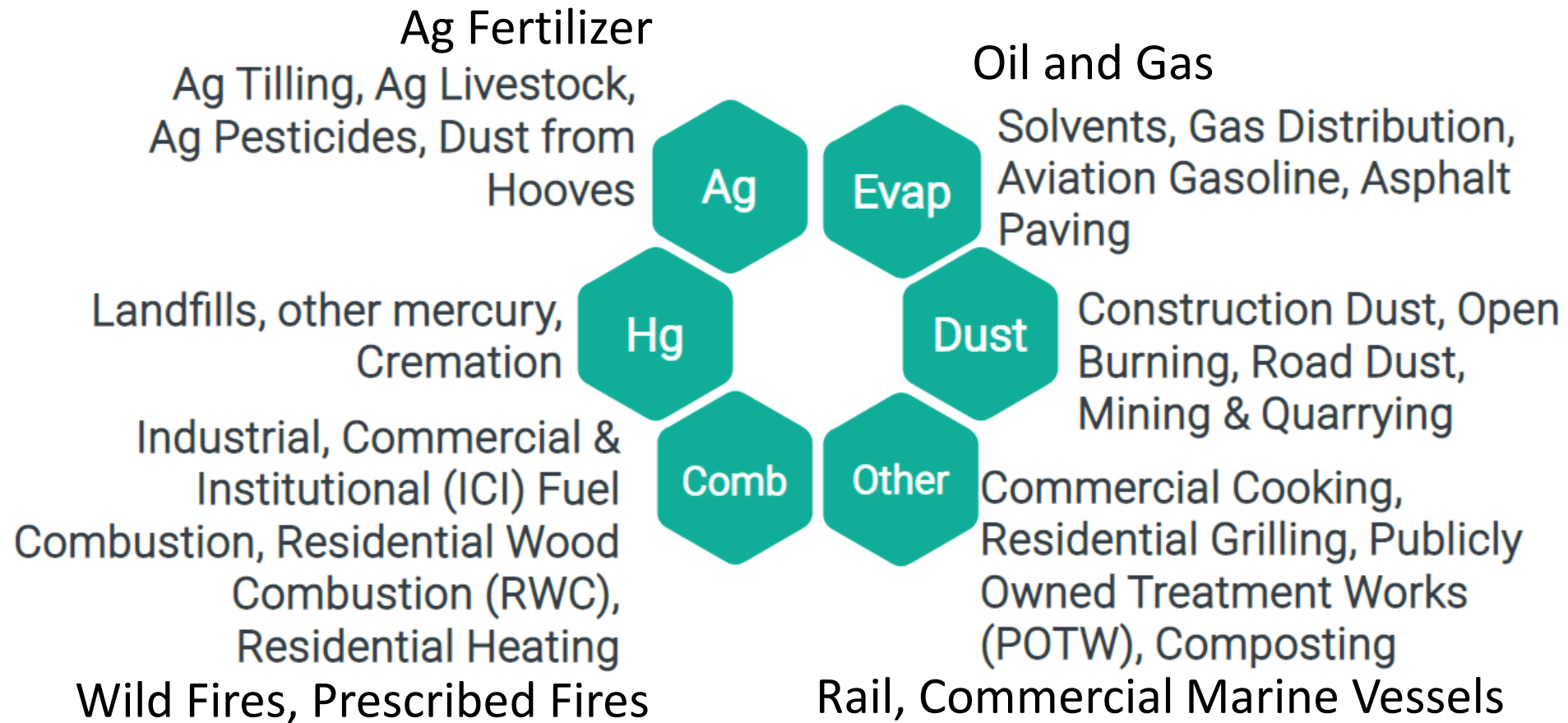
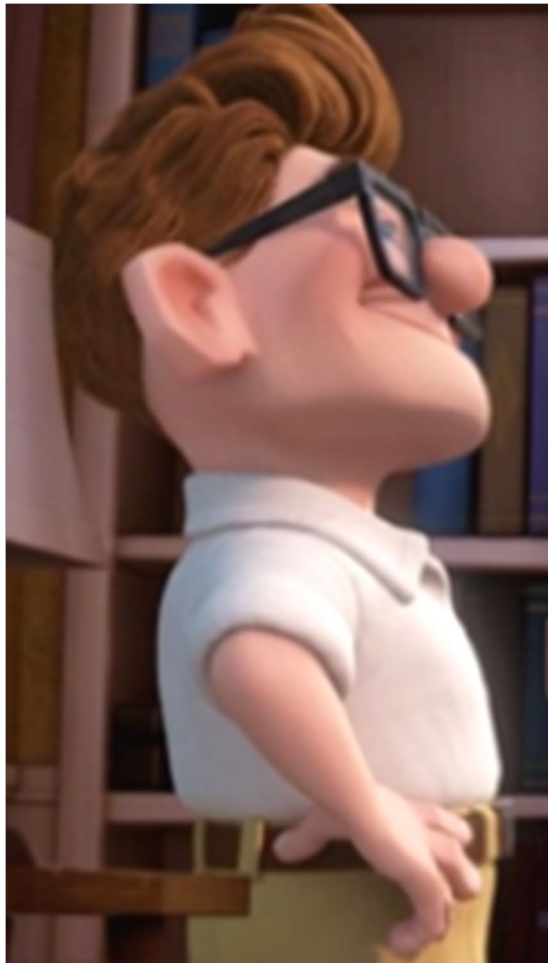
This is Gary.
Gary is a data
submitter for
the NEI.




Gary's one of
185 SLTs who
submit to the
emissions
inventory.



Gary can submit thousands of SCCs covering a wide range of sources





Each data submitter is responsible for tens of thousands of data points.

How do you take 28 million emissions datapoints from 185 data submitters and decide what data to select?

Each nonpoint emissions data point in EIS is:

- County FIPS ID
- Pollutant
- SCC



state	tribal n	fips	county	scc	scc level-1	scc level-2	scc level-3	scc level-4	sector	reporting	emissions	pollutant	pollutant	total emis	emissions	data set
NC		37181	Vance	2103005000	Stationary	Commercial	Residual	Total: All	Fuel Comb - Comm/Institutional - Oil A	R		PM10-FIL	PM10 Filte	0 TON		2014NCDAQ
NC		37173	Swain	2102001000	Stationary	Industrial	Anthracite	Total: All	Fuel Comb - Industrial Boilers, ICes - (A	R		CO	Carbon M	0 TON		2014NCDAQ
NC		37077	Granville	2102011000	Stationary	Industrial	Kerosene	Total: All	Fuel Comb - Industrial Boilers, ICes - (A	R	7439921	Lead		5.12E-07 TON		2014NCDAQ
NC		37077	Granville	2102011000	Stationary	Industrial	Kerosene	Total: All	Fuel Comb - Industrial Boilers, ICes - (A	R		PM10-FIL	PM10 Filte	0.000405 TON		2014NCDAQ

And belongs to an original dataset—either generated by a SLT or EPA.

What is an SCC?

- www.epa.gov/SCC
- 10 Digit code (for NP) to classify different activities that generate emissions.
- Each SCC represents a unique but sometimes overlapping source category-specific process that emits air pollutants.
- Examples of processes described by SCCs and some of the emissions they generate include:
 - Burning natural gas in a boiler **210305000** produces oxides of nitrogen (NOx) and other criteria and hazardous air pollutants (HAP).
 - An industrial process such as paint coating produces volatile organic compounds (VOC). **2104001000**

Facet Name	Type	Count	Level 4 Detail ^ Hide Header		
Architectural Coatings	SCC Level Three	28	SCCLevel 1	SCCLevel 2	SCCLevel 3
Architectural Coatings - Solvent-based	SCC Level Three	1	Solvent Utilization > Surface Coating > Architectural Coatings		
Architectural Coatings - Water-based	SCC Level Three	1	Total: All Solvent Types [2401001000]		
			SCC CODE	2401001000	
			STATUS	Active	
			MAP TO		
			LAST INVENTORY YEAR		
			DATA CATEGORY	Nonpoint	
			DESCRIPTION		
			SHORT NAME	Architectural Coatings	
			SECTOR	Solvent - Non-Industrial Surface Coating	
			USAGE		

Critical Elements of Nonpoint Development

State, Local and Tribal (SLT) estimated emissions:

- SLT emissions submitted to EPA using own methods or factors

EPA estimated emissions:

- Wagon Wheel Tool: Uses activity data and methods developed in conjunction with SLTs via NOMAD
- Oil and Gas Tool: Default activity data, and includes emission factors (EFs), controls
- Other Tools: Agricultural Livestock Waste, Agricultural Fertilizer Application, Portable Fuel Containers (PFCs), Commercial Marine Vessels (CMV), Rail, Biogenics, Agricultural Burning

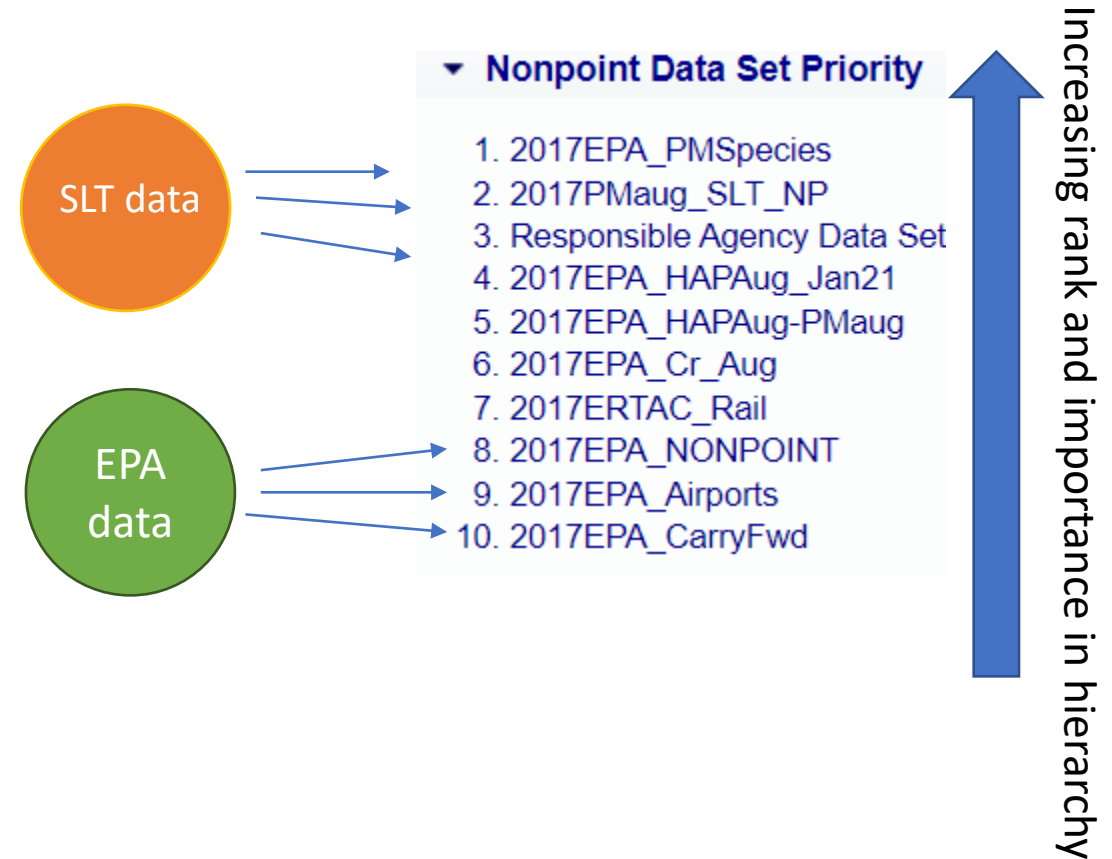
NP Survey:

- Completed in Emissions Inventory System (EIS) Gateway. Allows SLTs to determine how/if EPA data will be used to “gap-fill” the NEI

HAP and PM Augmentation, PM Speciation in EIS

How do we select data for the NEI?

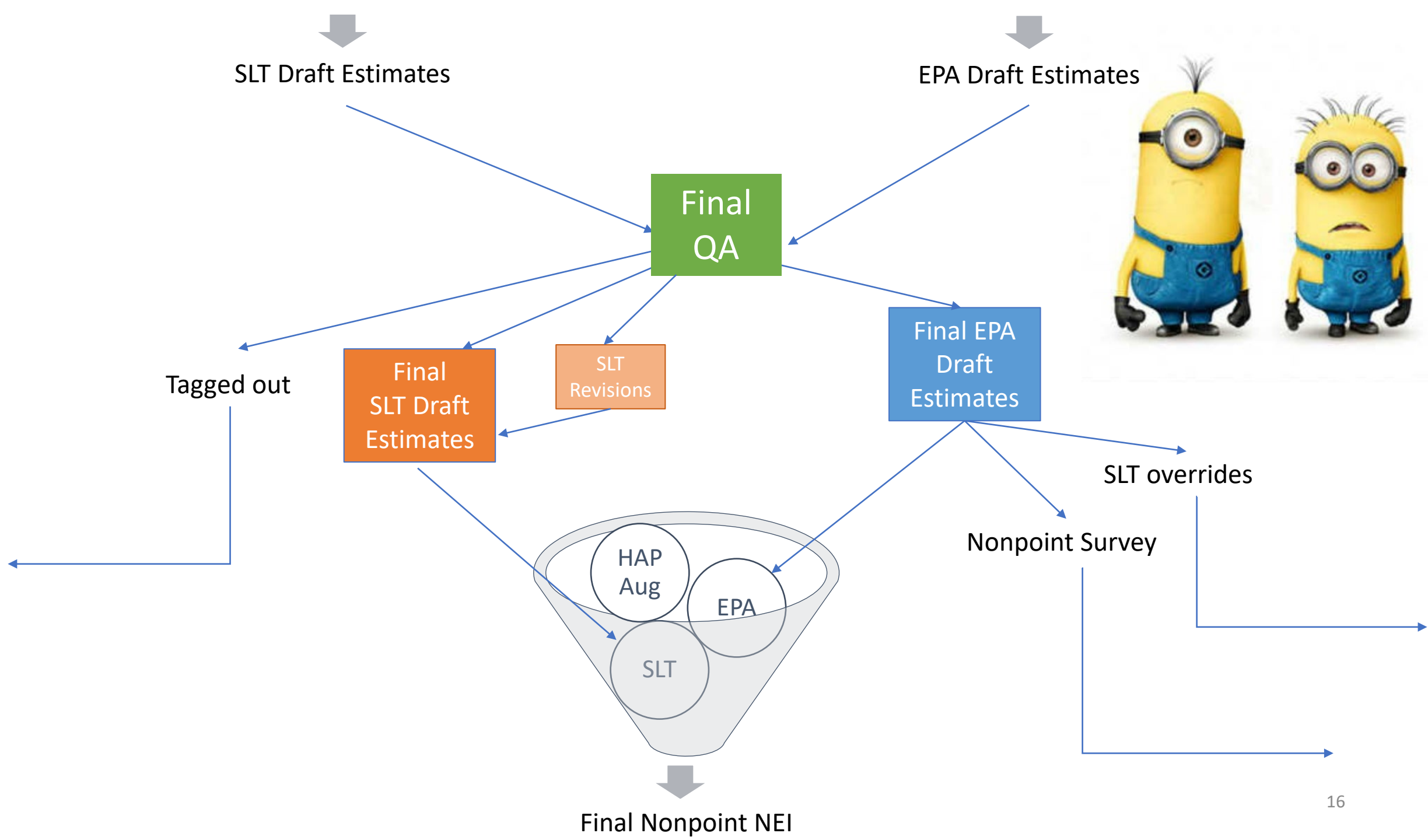
- EIS Software merges multiple datasets that may have overlapping data on a per emissions process and pollutant basis, and saves the results to a dataset
- “Best Choice” is Based on the Data Set Hierarchy
- A Given Selection May Exclude Data
 - Data That is Suspect or Otherwise Not Wanted to be Included in the Selection Can be “Tagged” by EPA.
 - Saying “No to Using EPA estimates” on your Nonpoint Survey Excludes this data too



With the Range of Data Submissions...we'd receive:

- Incomplete counties
- Incomplete pollutants
- Nonsense pollutants
- Overlap between point and nonpoint
- Misunderstanding of SCC use
- Misunderstanding of submission deadlines or requirements
- No documentation
- Outliers that couldn't be explained
- Missing data
- Impossible sums





Cheat Sheet

<https://usepa.sharepoint.com/sites/NOMAD>

Nonpoint Data Category Guide for New Submitters

(the cheat sheet)

Site Access

- Sharepoint
 - NOMAD, NEI
- EIS Gateway
- Exchange Network

Trainings/Manuals/Documentation

- EIS How To's
- User Guide
- 2023 NEI Plan
- 2020 TSD
- Airknowledge.gov

NP Survey

- Mandatory
- Accessible through EIS
- Note whether you're submitting input templates

Submitting Emissions

- In order of EPA's preference
 - Inputs
 - Accept EPA's estimates
 - Emissions

NONPOINT DATA CATEGORY GUIDE FOR NEW SUBMITTERS (THE CHEAT SHEET)

I. SITE ACCESS

Before you begin, you need to have access to these sites:

- 1) NEI SharePoint: <https://usepa.sharepoint.com/sites/NEI>
 - If you're a member of the NEI SharePoint group, you'll receive a newsletter every 2-4 weeks with updated information from EPA regarding the inventory. Other important information is shared here too, like upcoming dates and deadlines.
- 2) NOMAD SharePoint: <https://usepa.sharepoint.com/sites/NOMAD>
 - This is where you download the Wagon Wheel, input templates, and upload the input templates to submit to EPA.
 - Also, as a NOMAD member, you'll get invitations to the Monthly Teams meetings. These are held on the 3rd Wednesday of the Month at 2 pm ET.
- 3) EIS Gateway: <https://eis.epa.gov/eis-system-web/welcome.html>
 - This will give you access to the Nonpoint Survey and emissions inventory data for sources in your state, local, or tribe.
 - Use this guide to request access to EIS Gateway: [How Do I Request Access to the EIS Gateway.](#)
- 4) Environmental Exchange Network: <https://enservices.epa.gov/login.aspx>
 - This account is only needed when the state submits xml data payload files (Point, NONROAD inputs or data, ONROAD inputs or data, or Nonpoint emissions).
 - Using the Wagon Wheel and state input files is a more transparent and standard method of calculating nonpoint emissions, so submission of emissions data files is generally not needed.

NOMAD Sharepoint Site

My Workplace 🔍 ⚙️ ?

NM Nonpoint Methods Advisory (NOMAD) Workgroup

🔍 Search this site

- NEI Home
- ✓ **NOMAD Workgroup**
- Trainings
- Documents
- Newsletters
- Team
- Accessibility Mode

Nonpoint Data Category Work Page

EPA Resource Library

Input Templates

Wagon Wheel Tool

NOMAD Meeting Notes and Recordings

Requesting Access to EIS



<https://www.epa.gov/air-emissions-inventories/emissions-inventory-system-eis-users-manual-and-how-tos>

Air Emissions Inventories

[CONTACT US](#)

[Air Emissions Inventory Home](#)

[Data and Documentation](#)

[Reports and Summaries](#)

[Air Pollutants Emissions Trends Data](#)

[Air Emissions Reporting Requirement \(AERR\)](#)

[Emissions Inventory System \(EIS\) Gateway](#)

[EIS User's Manual and How To's](#)

[Emissions Inventory System \(EIS\) Bridge Tools](#)

[Training](#)

Emissions Inventory System (EIS) User's Manual and How To's

The following sections of the EIS User's Manual are available to assist you in using the Emissions Inventory System.

We are beginning the process of having these types of documents housed in the Emissions Inventory System, in the [User Guide](#).

For more information on the Bridge Tool in the user guide, click here: [Bridge Tool in User Guide](#).

- [Changes to the Consolidated Emissions Reporting Schema \(CERS\) for the 2020 National Emissions Inventory_\(pdf\)](#) (1.75 MB)
- [EIS Bridge Tool & New CERS Elements \(pdf\)](#) (406.21 KB, 6/11/21)
- [Q&A for EIS CERS Schema Changes Training July 2023](#) (385.79 KB)
- [How Do I Request Access to EIS Gateway?\(pdf\)](#) (1.47 MB, January 2023)



Accessing EIS



Login.gov

<https://secure.login.gov/>



Web Application
Access

<https://waa.epa.gov/>



EIS Gateway

[https://eis.epa.gov/eis-system-
web/welcome.html](https://eis.epa.gov/eis-system-web/welcome.html)



Final Approval!

1. Create and account on the Login.gov portal
2. After set up, request access to the EIS Community through EPA's web application access, logging in with your new Login.gov account
3. Complete your Profile in EIS, once approved, have full access to EIS!

EIS User ID and XML Submissions

VIEW/ADD/EDIT

- » Facility Inventory and Point Emissions
- » Potential Duplicate Facilities
- » Merge Processes
- » Nonpoint/ Onroad/ Nonroad Emissions
- » Event Emissions
- » CDB Activity Data
- » Inventory Selection
- » Schedule Augmentation
- » Data Tagging

REPORTS

- » Request Reports
- » Report Downloads
- » Large File Download
- » Feedback Reports
- » Agency Submission History Report
- » Data Completeness Report

REFERENCE DATA

- » Reporting Code Tables
- » Augmentation Profile Information
- » QA Checks
- » View Dataset Identifiers
- » Inventory Cycle Management
- » Software and Tools

SUPPORT

- » Administration Console
- » Web Services Console
- » View All Announcements
- » View Support Requests
- » Create Support Request
- » EIS User Guide

ACCOUNT DATA

- » My Account
- » My Agency
- » Account List
- » Current Users List
- » Account Request List

Account

ACCOUNT PROFILE

First Name: Rich
Middle Name:
Last Name: Mason
Suffix:
E-Mail Address:
Work Phone:
Cell Phone:
Locality:
State:
Supervisor Name, Phone & Email:

ACCOUNT INFORMATION

Show 25 entries

Search agency	Search account has write permission	N/A
Agency	Account Has Write Permission	View Agency
EIS	true	View Agency

Showing 1 to 1 of 1 entries

Download Results: [CSV](#)

ACCOUNT ADMINISTRATION

User Roles: [Default Manager Role](#), [Inventory Developer Role](#), [Authenticated Role](#), [Inventory Selector Role](#)
User Identification: **rmason**
Account Type: [Agency Access Management](#)
Account Enabled: yes
Terms Accepted: yes
Profile Accepted: yes
Last Login Time: 2023-09-06 02:24 PM

SUPPORT REQUEST CATEGORIES

AcceptEpaData - Onroad AcceptEpaData - Nonroad Authorization Code DataTagging DraftGprComment DuplicateFacilities General ProtectedData QACheck SystemIssue
 Feedback - Facility Inventory Feedback - Point Feedback - Nonpoint Feedback - OnRoad Feedback - Nonroad Feedback - Event

NOTIFICATION PREFERENCES

Edit Point of Contact (and Notification) Data Categories:


Event Onroad Point Biogenic Nonroad Nonpoint Facility Inventory

Select Notification Only Data Categories:

Event Onroad Point Biogenic Nonroad Nonpoint Facility Inventory

[Save](#)[Undo](#)

Nonpoint Data Category Guide for New Submitters (the cheat sheet)



Site Access

- Sharepoint
 - NOMAD, NEI
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Trainings/Manuals/Documentation

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- User Guide
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- Airknowledge.gov

NP Survey

- Mandatory
- Accessible through EIS
- Note whether you're submitting input templates

Submitting Emissions

- In order of EPA's preference
 - Inputs
 - Accept EPA's estimates
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II. TRAINING / MANUALS / HOW-TO GUIDES

Consider bookmarking these links!

- Helpful EIS Manuals and How-To's: <https://www.epa.gov/air-emissions-inventories/emissions-inventory-system-eis-users-manual-and-how-tos>.
- User guide when you're within EIS: <https://eis.epa.gov/userguide/index.html>
- [2023 NEI Plan](#): has details on what EPA plans for the cycle, including important dates
- [2020 TSD](#): has details on the methods that were used in the 2020 inventory. A good starting place of what we'll probably be doing for 2023, and if it's not, we'll be letting the NOMAD committee know!
- www.airknowledge.gov is the newest place to get a more comprehensive view of EPA's full spectrum of training. It includes a lot more than Emissions inventories! But it includes those too. Specific for nonpoint is **Section 19, Develop Data for Nonpoint Sources. These are the most up-to-date trainings, but may not reflect recent updates to be included in the upcoming inventory cycle.**

EIS User's Manual Resources

<https://www.epa.gov/air-emissions-inventories/emissions-inventory-system-eis-users-manual-and-how-tos>

The screenshot shows a web browser window with the URL [epa.gov/air-emissions-inventories/emissions-inventory-system-eis-users-manual-and-how-tos](https://www.epa.gov/air-emissions-inventories/emissions-inventory-system-eis-users-manual-and-how-tos). The page has a left-hand navigation menu and a main content area.

Navigation Menu:

- Air Pollutants Emissions Trends Data
- Air Emissions Reporting Requirement (AERR)
- Emissions Inventory System (EIS) Gateway
- EIS User's Manual and How To's**
- Emissions Inventory System (EIS) Bridge Tools
- Training
- Conference
- Emissions Development Tools
- Emissions Inventory Guidance
- Emissions Inventory Listservs
- Points of Contact
- Frequent Questions

Main Content:

The following sections of the EIS User's Manual are available to assist you in using the Emissions Inventory System.

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For more information on the Bridge Tool in the user guide, click here: [Bridge Tool in User Guide](#).

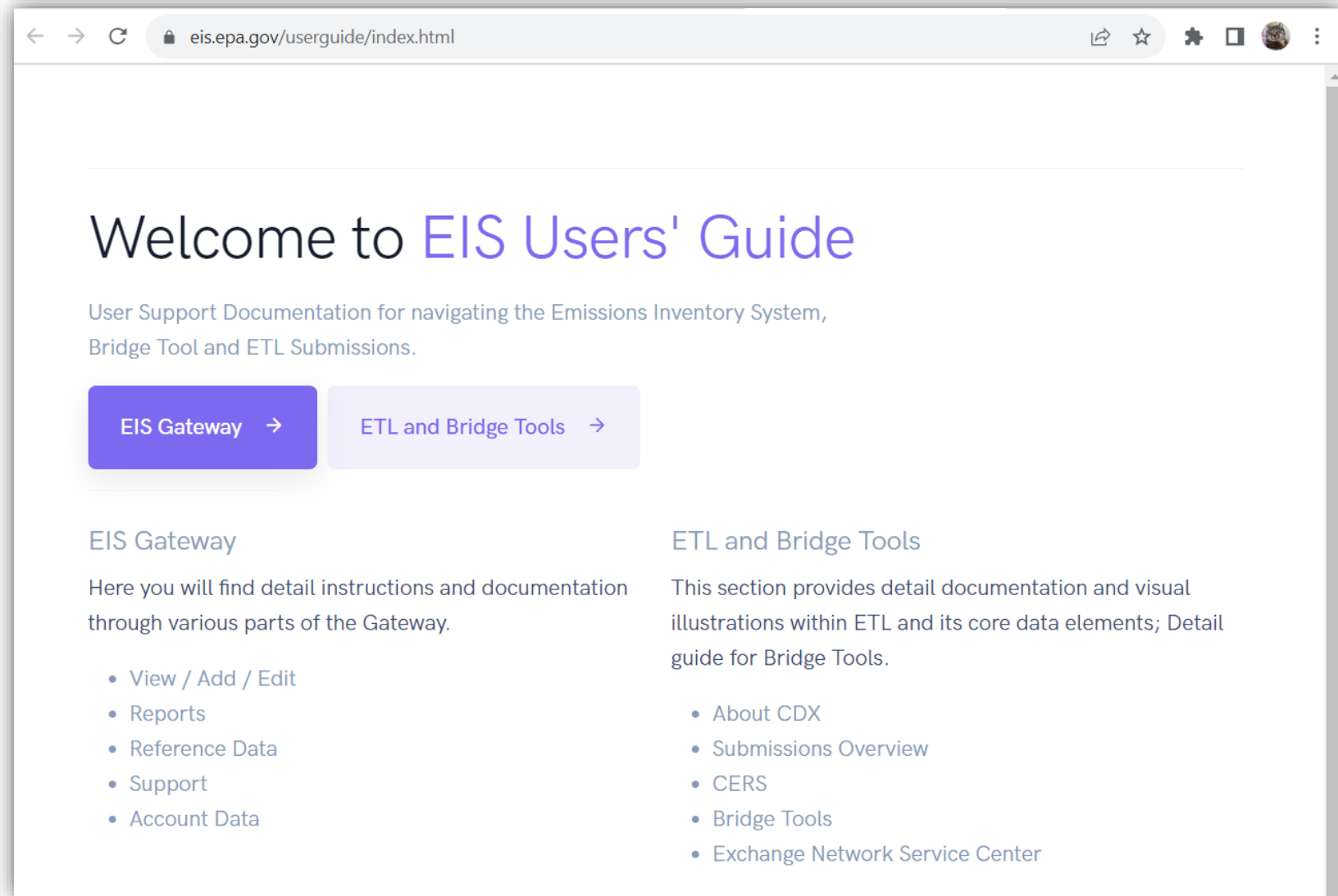
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- [Q&A for EIS CERS Schema Changes Training July 2020 \(pdf\)](#) (385.79 KB)
- [How Do I Request Access to EIS Gateway? \(pdf\)](#) (1.47 MB, January 2023)
- [How Do I Update My Password?](#)
- [How Do I Submit, View and Reply to Support Requests? \(pdf\)](#) (248.1 KB)
- [How Do I View a List of Facilities? \(pdf\)](#) (1.32 MB)
- [How Do I Download My Facility Inventory Data? \(pdf\)](#) (767.16 KB)
- [How Can I Tell How Different the NEI Selection is from the Data I submitted? \(pdf\)](#) (73.85 KB)
- [How Do I Submit to EIS Using the Web Client? \(pdf\)](#) (1.14 MB, 2/3/22)
- [What Checks are Run Against My EIS CERS XML File? \(pdf\)](#) (20.82 KB)
- [How Do I Retrieve My Quality Assurance Feedback? \(pdf\)](#) (222.93 KB)
- [How Do I Log On To the Network Exchange Services Center? \(pdf\)](#) (774.81 KB, 6/9/21)

More Useful EIS Instructions

<https://eis.epa.gov/userguide/index.html>

SUPPORT

- » Administration Console
- » View All Announcements
- » View Support Requests
- » Create Support Request
- » EIS User Guide



The screenshot shows a web browser window with the URL eis.epa.gov/userguide/index.html. The page title is "Welcome to EIS Users' Guide". Below the title, there is a subtitle: "User Support Documentation for navigating the Emissions Inventory System, Bridge Tool and ETL Submissions." Two buttons are visible: "EIS Gateway" and "ETL and Bridge Tools". The "EIS Gateway" button is highlighted in blue. Below the buttons, there are two columns of content. The left column is titled "EIS Gateway" and contains a list of links: "View / Add / Edit", "Reports", "Reference Data", "Support", and "Account Data". The right column is titled "ETL and Bridge Tools" and contains a list of links: "About CDX", "Submissions Overview", "CERS", "Bridge Tools", and "Exchange Network Service Center".

Welcome to EIS Users' Guide

User Support Documentation for navigating the Emissions Inventory System, Bridge Tool and ETL Submissions.

[EIS Gateway](#) → [ETL and Bridge Tools](#) →

EIS Gateway


Here you will find detail instructions and documentation through various parts of the Gateway.

- View / Add / Edit
- Reports
- Reference Data
- Support
- Account Data

ETL and Bridge Tools

This section provides detail documentation and visual illustrations within ETL and its core data elements; Detail guide for Bridge Tools.

- About CDX
- Submissions Overview
- CERS
- Bridge Tools
- Exchange Network Service Center

A large circle with a blue-to-orange gradient is the central focus. To its top-left is a small orange plus sign, and to its top-left is a small orange circle. To its bottom-right is a small orange circle. The text 'Resources: 2023 NEI Plan' is centered within the circle in white.

Resources: 2023 NEI Plan

- Released July 2023 after 45-day SLT comment period
- SLT audience: EPA's plan for developing the 2023 NEI
- Summary of key changes, submittal requirements, schedules, and suggested best practices
- EPA Data Completeness Report, Nonpoint Iterative QA Reports, and formal completeness letters
- Overview of how each broad data category (Point, Mobile, and Nonpoint with fires separate) will be constructed between SLTs and EPA
 - Perhaps biggest change will be plan to use EIS to download, upload, and review "wagon wheel" (WW) input templates (nonpoint data category)

Resources: 2020 NEI TSD and “NEMOs”

- Starting with 2020 NEI, TSD broken up into (37) sections
- Section 6: Nonpoint Overview, including summary of all SLT inputs and emissions submittals
- Sections 7 through 27: Nonpoint methodologies, replacing the Nonpoint Emissions and Methodology and Operator instructions (NEMOs) used in previous NEIs
- Appendix - NEI Errata: Live document on issues discovered after release of 2020 NEI in March 2023

2020 National Emissions Inventory (NEI) Technical Support Document (TSD)

 [Section 1. Introduction \(pdf\)](#) (439.79 KB, March 2023)

 [Section 2. Contents Overview \(pdf\)](#) (903.43 KB, August 9, 2023)

 [Section 3. Point Sources \(pdf\)](#) (593 KB, March 2023)

 [Section 4. Nonroad Equipment \(pdf\)](#) (350.93 KB, March 2023)

 [Section 5. Onroad Mobile \(pdf\)](#) (2.11 MB, March 2023)

 [Section 6. Nonpoint Overview \(pdf\)](#) (710.97 KB, March 2023)

 [Section 7. Wild and Prescribed Fires and Field Burning \(pdf\)](#) (2.42 MB, March 2023)

 [Section 8. Biogenics \(pdf\)](#) (697 KB, March 2023)

 [Section 9. Agricultural Fertilizer Application \(pdf\)](#) (1.08 MB, March 2023)

 [Section 10. Agriculture - Livestock Waste \(pdf\)](#) (748.89 KB, March 2023)

 [Section 11. Commercial Marine Vessels \(pdf\)](#) (297.13 KB, March 2023)

AirKnowledge Trainings

<https://airknowledge.gov/EMIS-SI.html>

The Emissions Inventories curriculum is intended for learners who develop emissions inventories. In the left column, you will find training content. (It should be noted that the training content is not yet available.)

EMIS101-SI: Fundamentals of Emissions Inventories

After completion of this training, you will be able to:

- Understand the purpose and scope of emissions inventories.
- Identify the types of sources that are included in emissions inventories.
- Understand the data requirements for emissions inventories.
- Understand the data quality requirements for emissions inventories.
- Understand the data management requirements for emissions inventories.

19. DEVELOP DATA FOR NONPOINT SOURCES (ADVANCED)

- Data Completeness
- Nonpoint Survey
- A Wagon Wheel Tool
- Expected Pollutants
- Oil and Gas 101
- Oil and Gas Estimation Tool

20. DEVELOP DATA FOR POINT SOURCES (ADVANCED)

Not Yet Available

21. DEVELOP DATA FOR MOBILE SOURCES (ADVANCED)

- Onroad and Nonroad Sources in the NEI

22. DEVELOP DATA FOR EVENTS SOURCES (ADVANCED)

Not Yet Available

AND MANY MORE TO COME!

Nonpoint Data Category Guide for New Submitters (the cheat sheet)

Site Access

- Sharepoint
 - NOMAD, NEI
- EIS Gateway
- Exchange Network

Trainings/ManualsDocumentation

- EIS How To's
- User Guide
- 2023 NEI Plan
- 2020 TSD
- Airknowledge.gov

NP Survey

- Mandatory
- Accessible through EIS
- Note whether you're submitting input templates

Fulfilling your Nonpoint Submittal Requirements

- In order of EPA's preference
 - Inputs
 - Accept EPA's estimates
 - Emissions

Meeting Your NP Submittal Requirements

Submitting emissions or accepting estimates

Options for SLT Nonpoint submittals



Submit input templates to the NOMAD SharePoint site (or EIS, if that is in place)

Accept EPA Estimates

Use your own methods to calculate and submit your emissions. Include documentation!

Options for SLT Nonpoint submittals



Submit input templates to the NOMAD
Sharepoint site

Accept EPA Estimates

Use your own methods to calculate and
submit your emissions. Include
documentation!

How to decide?

- Review the methodologies that EPA put together
- Attend NOMAD Calls for updates on new methodologies and discussions
- Pay attention to Wagon Wheel Releases and submit accordingly

Do's and Don't's (from the 2023 Plan):

o Do not use [old inventory documentation](#) for nonpoint categories. Instead, use the methodologies outlined in the [2020 NEI Technical Support Documentation](#), new methodology documents provided for the 2023 NEI on SharePoint, or, your own approach based on current information (your emission factors and activity data).

- Provide control information whenever possible
- Use the expected pollutants list
- Use the nonpoint survey to make sure to report those categories that you indicated you have in your state.
- Focus on categories that require point/nonpoint reconciliation

o Identify as early in the process as possible, those nonpoint sources that are most important for your agency ***and which sources you prefer to not accept EPA estimates.***

Wagon Wheel and Input Templates

Abt Associates

NonPoint Survey

Look on airknowledge.gov for the Nonpoint Survey training!

Nonpoint Data Category Guide for New Submitters

(the cheat sheet)



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Submitting Emissions

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III. FILL OUT YOUR NONPOINT SURVEY

This is a must-do, even if you are submitting all of your own emissions estimates. The Nonpoint Survey is one of the key components that EPA uses to determine if your submission is complete. The survey is accessible only by the EIS Gateway. (See Resources above for training on how to fill this out). This is one easy option for all inventory developers to “Accept All EPA Estimates.”

EIS Gateway
My Johnson, Missouri, Department of Natural Resources
Administrative Page: 04/17/2010 10:46:10 AM

View/Action/Edit

- Facility Inventory and Point Emissions
- Potential Duplicate Facilities
- Nonpoint Onroad/ Nonroad Emissions
- Event Emissions
- NCD Activity Data
- CDD Activity Data
- Nonpoint Survey**
- Inventory
- Request Reports
- Report Downloads
- Large File Download
- Feedback Reports
- Agency Submission History

Agency Organization Detail

CURRENT AGENCY


Agency Description: Missouri Department of Natural Resources
Agency Type: State
EIL Process Group: 1
Survey Status: ● Survey Complete

Agency Responsibilities | Agency Members | Program System Codes | Allow Access | Feedback Reports | Nonpoint Survey


EPA Tool Estimate Category	Category Complete?	
Livestock Waste Estimates	Yes	Accept All EPA Emissions Estimates Edit SOCs
Road Dust Test	No	Accept All EPA Emissions Estimates

Why Do We Have a Nonpoint Survey?

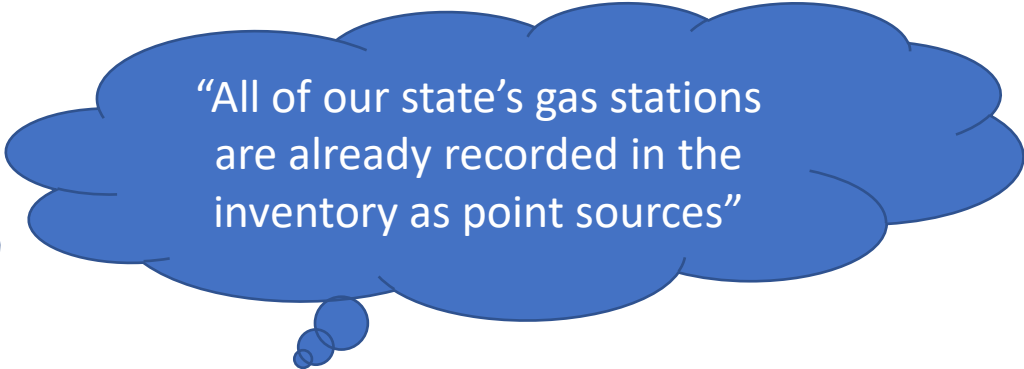
- EPA creates a dataset that is parallel to those that SLTs develop, for the purpose of gap filling
- EPA needs to prevent double-counting of emissions or insertion of data where it doesn't belong
 - State may not have a source at all
 - State may use a different SCC
 - State may cover the source in Point



“Our state doesn't use coal for commercial boilers”



“We report all of our burning under more specific leaf types than EPA does”



“All of our state's gas stations are already recorded in the inventory as point sources”



The Easy Button

- Wagon Wheel covers most SCCs
- Easy Button on the Nonpoint Survey
- Input Templates provided so SLTs can fill in with their own inputs for our tools

Site Navigation: Accessing the Survey through EIS

EIS Gateway

User: Lindsay Dayton
Agency: North Carolina Department of Environmental Quality
Role(s): Authenticated Role, S/L/T User Role

VIEW/ADD/EDIT

- » Facility Inventory and Point Emissions
- » Potential Duplicate Facilities
- » Nonpoint/ Onroad/ Nonroad Emissions
- » Event Emissions
- » CDB Activity Data
- » Nonpoint Survey

REPORTS

- » Request Reports
- » Report Downloads
- » Large File Download
- » Feedback Reports
- » Agency Submission History Report
- » Data Completeness Report

REFERENCE DATA

- » Reporting Code Tables
- » Augmentation Profile Information
- » QA Checks
- » Inventory Cycle Management
- » Software and Tools

SUPPORT

Emissions Inventory System

Welcome To EIS

CURRENT ANNOUNCEMENTS

[EIS Pollutant Code Table Changes](#)

Three glycol ether pollutants (Ethylene Glycol Monobenzyl Ether CAS 622-08-2, Methoxyethyl Oleate CAS 111-10-4, Methyl Cellosolve Acetylricinoleate CAS 140-05-6) were revised to remove their categorization as Hazardous Air Pollutants (HAP) because they do not meet the Clean Air Act definition of glycol ethers. No emissions of these pollutants were reported in recent years. In support of pollutants collected by State Local and Tribal agencies to be voluntarily reported to EIS, the pollutant code PM-FIL is now active (brought out of retirement) with a new description "PM Filterable/Total Suspended Particulate Matter (TSP)" and the following pollutants are added to the EIS Pollutant Code Table: NMOC - Non-methane Organic Compounds; 7664939 - Sulfuric Acid Mist (Primary Aerosol); 2699798 - Sulfuryl fluoride; 10049044 - Chlorine Dioxide

POSTED BY ART DIEM ON 2023-07-12 10:08 AM

[View All Announcements](#)

Under the “View/Add/Edit” is a link to “Nonpoint Survey”

Site Navigation: Page 1, Options

Agency Organization Detail

CURRENT AGENCY

Agency Description: EIS
Agency Type: System
ETL Process Group: 4
Survey Status: ● Survey Complete

Agency Responsibilities | Agency Members | Program System Codes | Allow Access | Feedback Reports | Nonpoint Survey

2020 NONPOINT SURVEY

Inventory Year:

The purpose of this Nonpoint Survey is to prevent EPA double-counting emissions in sectors where SLTs and EPA report emissions for different SCCs (nonpoint or point) but similar processes.

- "Accept All EPA Emissions Estimates" EPA estimates will be used. This option is intended if you do not plan to submit *emissions* for any nonpoint sector. Note, acceptable SLT *activity inputs* provided prior to the NEI Plan time

Clicking "Go To Survey" brings you to page 2, where you can accept EPA estimates for a whole category or part of a category ("Edit SCCs"). If you do not accept EPA estimates for every SCC in the category then you must select "Edit SCCs". There are 3 options for each SCC in the EPA tool/category:

- "Yes - Supplement my data with EPA estimates"
- "No - Do Not Supplement My Data". You also have the option to select one of these 4 optional comments:
 1. No - I do not have this Source
 2. No - This source is included in my Point Source contributions
 3. No - My agency uses different SCCs
 4. No - My inventory is complete. It does not need to be supplemented.
- "Yes - Supplement Only for Missing Pollutants at my reported Counties or Tribe". Use this option when you have accounted for all locations (e.g., counties) in your organization and only wish to supplement missing (expected) submitted estimates for at least one pollutant.

You are encouraged to "Save" often. Clicking "Submit" officially commits answers and saves all selections.



123

Red arrow is the easy button, "Go to Survey" goes to Page 2

Page 2: Where you can focus in on EPA tools by Tool Estimate Category

survey status.  Survey Not Started

[Agency Responsibilities](#) | [Agency Members](#) | [Program System Codes](#) | [Allow Access](#) | [Feedback Reports](#) | [Nonpoint Survey](#)

EPA Tool Estimate Category	Category Complete?	Did Your Agency Provide an Input Template for this Category?	
Ag Burning Estimates	No	No	Edit SCCs
Ag Fertilizer Tool	No	No	Edit SCCs
Ag Silage	No	No	Edit SCCs
Ag Tilling Tool	No	No	Edit SCCs
Asphalt Tool	No	No	Edit SCCs
Aviation Gasoline Tool	No	No	Edit SCCs
Backyard BBQ Tool	No	No	Edit SCCs
Biogenics Estimates	No	No	Edit SCCs
Commercial Cooking Tool	No	No	Edit SCCs
Composting Tool	No	No	Edit SCCs

EPA 1001 Estimate Category Ag Burning Estimates

Should EPA supplement your agency data?

Page 3

The default answer is **Yes - Supplement my data with EPA estimates**. *Drag and drop* the SCC from the left list into the appropriate answer box in the form.

For **No - Do Not Supplement My Data**, click on the answer bubble to say “why” you answered “No”.

Drag and drop the desired SCC into an Answer box. If choosing "NO - Do Not Supplement My Data", you may choose a reason by clicking on the comment bubble that appears next to the SCC. To move an item back to the "Yes - Supplement my data with EPA estimates", click on the red "X" next to the SCC.

Did Your Agency Provide an Input Template for this Category?

Yes - Supplement my data with EPA estimates

2801500160 - Agricultural Field Burning: Cotton	
2801500171 - Agricultural Field Burning: Fallow	
2801500220 - Agricultural Field Burning: Rice	
2801500250 - Agricultural Field Burning: Sugar Cane	
2801500262 - Agricultural Field Burning: Wheat Backfire	
2801500263 - Agricultural Field Burning:	

No - Do Not Supplement My Data

Yes - Supplement Only for Missing Pollutants at my reported Counties or Tribe

How the Nonpoint Survey is Laid Out

- 1 Question; 3 possible answers and one check box!
 - Question: Should EPA supplement your agency data?
 - Possible Answers:
 - **Yes - Supplement my data with EPA estimates:** EPA Will “Fill In” for all SCC-pollutants for all areas within your agency where estimates through the tool are available.
 - **No - Do Not Supplement My Data:** No EPA data will be used at any location for your agency*. If this option is chosen, you may specify why you don’t want the data supplemented:
 - No – I do not have this Source
 - No – This source is included in my Point Source contributions
 - No – My Agency Uses Different SCCs
 - No – My Inventory is Complete. It does not need to be supplemented.
 - **No – Even though I supplied input templates, I want EPA to use my submitted emissions.**
 - **Yes - Supplement Only for Missing Pollutants at my reported Counties or Tribe:** EPA data will be used but only at locations where the agency has provided at least 1 value
 - You may supply any Comments You have on a per-SCC Basis Within the Survey
- **Have you submitted Input Templates?** Check Box if YES.



AERR Proposal Possible Impacts on Nonpoint Survey

- Under the proposal, EPA tool inputs would be required and emissions would be optional
- If emissions provided optionally, they would need to include documentation
- EPA will review that documentation to understand the emissions method and determine whether it should be used in the NEI
- We would consult with the state about any concerns
- If EPA determines method is not sufficient, this could be an exception to the nonpoint survey choice “No – Do Not Supplement My Data” unless the reason is that the emissions are included as point sources.

Agency Organization Detail

CURRENT AGENCY

Agency Description: North Carolina Department of Environmental Quality

Agency Type: State

ETL Process Group: 2

Survey Status:  Survey Complete

Agency Responsibilities

Agency Members

Program System Codes

Allow Access

Feedback Reports

Nonpoint Survey

EPA Tool Estimate Category Ag Burning Estimates


Should EPA supplement your agency data?

Drag and drop the desired SCC into an Answer box. If choosing "NO - Do Not Supplement My Data", you may choose a reason by clicking on the comment bubble that appears next to the SCC. To move an item back to the "Yes - Supplement my data with EPA estimates", click on the red "X" next to the SCC.

Did Your Agency Provide an Input Template for this Category?

Yes - Supplement my data with EPA estimates

No - Do Not Supplement My Data

2801500160 - Agricultural Field Burning:
Cotton 

Survey Features – Use of “Easy Buttons”

- From Page 1 – Will apply an answer of **Yes - Supplement my data with EPA estimates** to **ALL** SCCs (even if you previously said “No” to some SCCs earlier).
- From Page 2 - Will apply an answer of **Yes - Supplement my data with EPA estimates** to **ALL** SCCs within the estimate category.
- You may edit answers after using “Easy Button”. So if you wanted “Yes” for all SCCs except a few, use the easy button, and then go into the specific category and “tweak” answers.



Scenario 1: I've reviewed the inputs, methodology from EPA, and am satisfied with the EPA estimates

I accept EPA estimates as-is

- Leave Nonpoint Survey response as “Yes - Supplement my data with EPA estimates”
- Leave check box “Did Your Agency Provide an Input Template for this Category?” empty

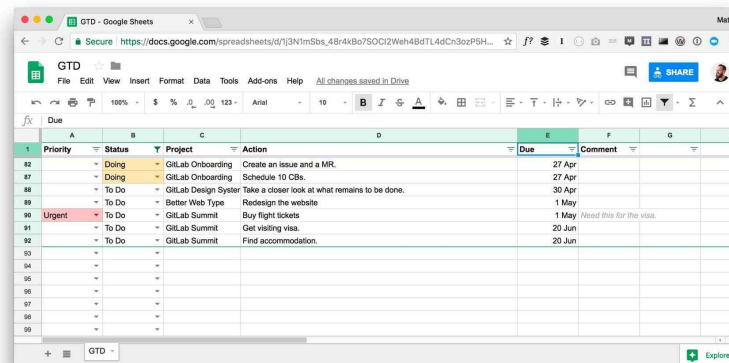


[This Photo](#) by Unknown Author is licensed under [CC BY-SA-NC](#)

Scenario 2: I accept EPA methodology but want to submit my own activity data

- Leave Nonpoint Survey response as “Yes - Supplement my data with EPA estimates”
- Check the box “Did Your Agency Provide an Input Template for this Category?”

Your activity inputs become the EPA estimates



Priority	Status	Project	Action	Due	Comment
	Doing	GilLab Onboarding	Create an issue and a MR.	27 Apr	
	Doing	GilLab Onboarding	Schedule 10 CBAs.	27 Apr	
	To Do	GilLab Design System	Take a closer look at what remains to be done.	30 Apr	
	To Do	Better Web Type	Redesign the website	1 May	
Urgent	To Do	GilLab Summit	Buy flight tickets	1 May	Need this for the visit.
	To Do	GilLab Summit	Get visiting visas.	20 Jun	
	To Do	GilLab Summit	Find accommodation.	20 Jun	

Scenario 3: I am not submitting emissions or input data and do not want EPA estimates to be used because:

“We report all of our burning under more specific leaf types than EPA does”

- I have reported these emissions in my Point submittal, or
- I do not have these sources in my agency, or
- I have submitted emissions to alternative nonpoint SCC(s), or
- My inventory is complete and does not need to be supplemented.

“Our state doesn’t use coal for commercial boilers”

In any of these cases, set Nonpoint Survey response to **“No - Do Not Supplement My Data”** and click a drop-down “why”

“All our gas stations are in point”

Scenario 4: I have my own methodology and will submit nonpoint emissions

- Q: Are you OK with EPA estimates “gap-filling” any missing emissions?
 - Yes: Leave Nonpoint Survey response as “Yes - Supplement my data with EPA estimates”
 - Yes, but only for missing pollutants at counties I reported: This (rare) “conditional” yes limits EPA gap-filling to only missing pollutants in counties you partially report.
 - No: Set Nonpoint Survey response to “No - Do Not Supplement My Data” and click a drop-down “why”
- ***Input activity data and documentation must ALSO be submitted.*** If possible, inputs should be provided in the same format as EPA provides in EIS.



- Check the box “Did Your Agency Provide an Input Template for this Category?” **only if they are in the Input Template format.**
- Otherwise, Activity Data inputs should be included in your Emissions Table in the bridge tool.

Survey Features - How to Get Information on What's Been Answered

- Standard reports
 - Nonpoint Survey Summary Report
 - Nonpoint Survey Detail Report
- Survey status is available at top of each page
 - Red / Pink: Not started
 - Yellow: At least 1 SCC has an answer
 - Green: All categories are “Complete” (they all have answers)
 - You may continue to change answers even if “Complete”
- Category status is available on the screens
 - Yes: All SCCs in the category have answers
 - No: At least 1 SCC in the category does not have an answer

CURRENT AGENCY

Agency Description: North Carolina Department of Environmental Quality

Agency Type: State

ETL Process Group: 2

Survey Status: ● Survey In Progress

EPA Tool Estimate Category	Category Complete?	
Ag Burning Estimates	Yes	Accept All EPA Emissions Estimates Edit SCCs
Ag Fertilizer Tool	No	Accept All EPA Emissions Estimates Edit SCCs
Ag Pesticide Tool	Yes	Accept All EPA Emissions Estimates Edit SCCs
Ag Tilling Tool	No	Accept All EPA Emissions Estimates Edit SCCs

“Easy button” does the following:

- Completes the survey quickly
- Answers “Yes” for every Nonpoint estimate category
- Any changes must be made SCC by SCC
- We strongly suggest reviewing the emissions methodology and estimates (draft or final) before you agree to accept EPA estimates

How to review EPA methods?

- 2020 NEI TSD! Sections 15 through 37 for WW sources
- Any updated methods for 2023 NEI will be put on the [NOMAD SharePoint site](#) (with any Wagon Wheel updates)


NP survey is due on March 31, 2025

Submitting Your Own Emissions Estimates



Reasons to submit emissions:

- You have emissions that EPA does not have tools to estimate
- You have emissions methodologies that believe are better than EPA's methods
- You don't have the input data needed for EPA tools, but you have other data you can use



If you choose to submit emissions for sectors without EPA tools (swimming pools)

- Under the proposed AERR, if you include emissions for sectors without EPA tools, you must:
 - Submit emissions to EIS with the bridge tool and use the ENSC
 - include emission factors and throughputs as required fields in the emissions table
 - Provide documentation on SharePoint.
- Even if the proposal is not finalized, we want voluntarily submitted documentation to support transparency and quality review

By January 15, 2025



If you choose to submit emissions for sectors with EPA tools (RWC example)

- Under the proposed AERR, if you include emissions that are part of the EPA tools, you must:
 - Submit emissions to EIS with the bridge tool and use the ENSC
 - Submit inputs in the Input Template format
 - Provide documentation on SharePoint
 - Fill out the survey appropriately

By January 15, 2025

What do we mean by Documentation?

Equations

Data Sources---as specific as possible (not just 2020 Census).

- Better: Table 3.2 of the 2020 Census American Community Survey, version 2.1
- Best: above with PDF screenshots and weblinks
- Include sources for both emission factors and activity

Tables

- Inputs
- emission factors
- Output pollutants

Example calculation

Emissions control information

Any assumptions you make

Reasons why it doesn't make sense to use our methods

Expected Pollutant List

Check airknowledge.gov for a recorded video how-to!

What is the expected pollutants list?

TOOL ESTIMATES

List of all SCC/pollutant combos EPA will estimate

NON-TOOL KNOWN POLLS

ALSO includes SCC/Pollutant combos that EPA doesn't estimate, but would reasonably expect (e.g., suite of combustion pollutants.)

HAP AUG POLLS

And lastly, all HAPs that EPA will create through "HAP Augmentation" based on a few key input pollutants submitted by SLTs

Expected Pollutants List example



Carbon
Hydrogen
Nitrogen
Sulfur
Oxygen

COMBUSTION

Primary Pollutants

CO - Carbon Monoxide
CO₂ - Carbon Dioxide
SO₂ - Sulfur
NO_x - Nitrogen Dioxide
N₂O - Nitric Oxide
VOCs - Volatile Organic Compounds
or
HCs - Hydrocarbons

Particulate Matter

PM₁₀ - Course Particles - less than 10 microns
PM_{2.5} - Fine Particles - less than 2 microns
NH₃ - Ammonia

Use the EPL to determine:

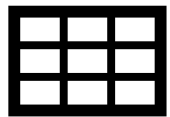
- Which pollutants does EPA want in my NEI Submission?
- Which pollutants will EPA backfill if I don't provide them?
- If I don't submit HAPs but I do submit a key criteria pollutant (like VOC and PM), what HAPs will EPA generate?

- Step by step instructions are in the ReadMe tab of the file.

Bridge Tool

Bridge Tool Basics - Why Is It Needed?

- ▶ Created in 2008 to Assist Agencies in Converting “Flat File” Formats of Data to Extensible Markup Language (XML)
- ▶ All Files Submitted Through the Exchange Network Must be in XML. This is the File That is Submitted to EIS.



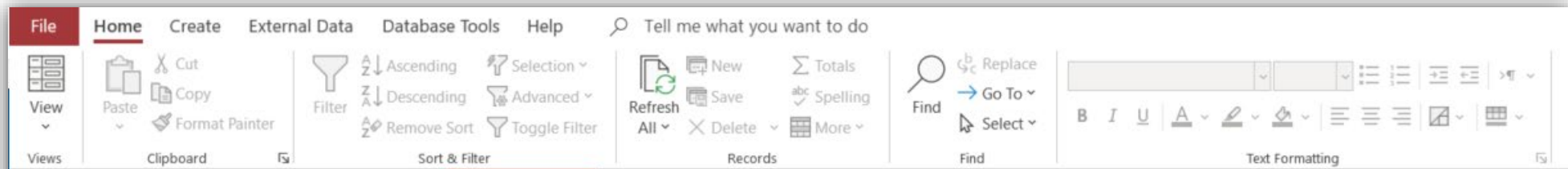
Source Data Available in Spreadsheets or Some “Flat File” Formatted Style

MS Access Application That Converts the Table-Style Data to XML Format

Bridge tool output is a file that you submit to EIS

Bridge Tool Basics - How it Works and Important Information

- ▶ Formats tabular data into CERS XML Format
- ▶ There are different Bridge Tools for the different data categories/formats.
 - ▶ Nonpoint / on-road / nonroad data categories
 - ▶ Facility inventory and point emissions
 - ▶ <https://www.epa.gov/air-emissions-inventories/eis-bridge-tools>
- ▶ Series of tables are “linked” together to form relationships.
- ▶ Only used when submitting emissions! Not common for nonpoint.
- ▶ The bridge tool performs very little validation. Its primary purpose is to be a data formatting tool.
- ▶ Can also be used to delete emissions from EIS.



All Access Objects

Search...

Tables

- ControlApproach
- ControlMeasure
- ControlPollutant
- DeleteReportingPeriod
- DocumentHeader
- Emissions
- EmissionsProcess
- Location
- OperatingDetails
- Regulation
- ReportingPeriod
- SupplementalParameter

Queries

- Query1
- Query2

Forms

- frmMainMenu

Main Menu

Area Emissions Inventory System Bridge Tool

Version: October 28, 2021

Import from CERS XML

Export to CERS XML

Edit Data Tables

View QA Report

View XML Conversion Report

Export Onroad/Nonroad XML Wrapper

Import Staging Tables

Common Mistake!!!

The screenshot shows the Microsoft Access interface with the 'Export to CERS XML' dialog box open. The dialog box is titled 'Export to CERS XML' and contains the following fields and options:

- File Location: C:\Users\ldayton\OneDrive - Environmental Protection Agency (EPA)\Documents (with a 'Browse...' button)
- Complete / Verify Header Information
- Data Category: Nonpoint (dropdown menu)
- Emissions Year: (text input field)
- Submission Type: Production (dropdown menu)
- User Identifier: (text input field, circled in red)
- Author Name: (text input field)
- Organization Name: (text input field)
- Program System Code: (text input field)
- EPA Dataset: (text input field)
- Keywords: (text input field)
- Submission Comment: (text input field)

At the bottom of the dialog box, there are two buttons: 'Begin Export' and 'Cancel'.

EIS User ID and XML Submissions

VIEW/ADD/EDIT

- » Facility Inventory and Point Emissions
- » Potential Duplicate Facilities
- » Nonpoint/ Onroad/ Nonroad Emissions
- » Event Emissions
- » CDB Activity Data
- » Nonpoint Survey

REPORTS

- » Request Reports
- » Report Downloads
- » Large File Download
- » Feedback Reports
- » Agency Submission History Report
- » Data Completeness Report

REFERENCE DATA

- » Reporting Code Tables
- » Augmentation Profile Information
- » QA Checks
- » Inventory Cycle Management
- » Software and Tools

SUPPORT

- » Administration Console
- » View All Announcements
- » View Support Requests
- » Create Support Request
- » EIS User Guide

ACCOUNT DATA

- » My Account
- » My Agency
- » Change Agency
- » Logout

Cell Phone:
Locality: Durham
State: North Carolina
Supervisor Name, Phone & Email: Supervisor Name, Phone & Email

ACCOUNT INFORMATION

Show 25 entries

Agency	Account Has Write Permission	View Agency
North Carolina Department of Environmental Quality	false	View Agency

Showing 1 to 1 of 1 entries

Download Results: [CSV](#)

ACCOUNT ADMINISTRATION

User Roles: Authenticated Role, S/L/T User Role
User Identification: xldayton
Account type: Identity Access Management
Account Enabled: yes
Terms Accepted: yes
Profile Accepted: yes
Last Login Time: 2023-09-01 09:45 AM

NOTIFICATION PREFERENCES

Edit Point of Contact (and Notification) Data Categories:

Event Onroad Point Biogenic Nonroad Nonpoint Facility Inventory

Select Notification Only Data Categories:

Event Onroad Point Biogenic Nonroad Nonpoint Facility Inventory

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Cut Copy Format Painter Filter Sort & Filter Records Find Text Formatting

All Access Objects

Search...

Tables

- ControlApproach
- ControlMeasure
- ControlPollutant
- DeleteReportingPeriod
- DocumentHeader
- Emissions
- EmissionsProcess
- Location
- OperatingDetails
- Regulation
- ReportingPeriod
- SupplementalParameter

Queries

- Query1
- Query2

Forms

- frmMainMenu

Main Menu x Edit Data Staging Tables x Export to CERS XML x

Export to CERS XML

File Location: C:\Users\ldayton\OneDrive - Environmental Protection Agency (EPA)\Documents\ Browse...

Complete / Verify Header Information

Data Category: Nonpoint

Emissions Year:

Submission Type: Production

User Identifier:

Author Name:

Organization Name:

Program System Code:

EPA Dataset:

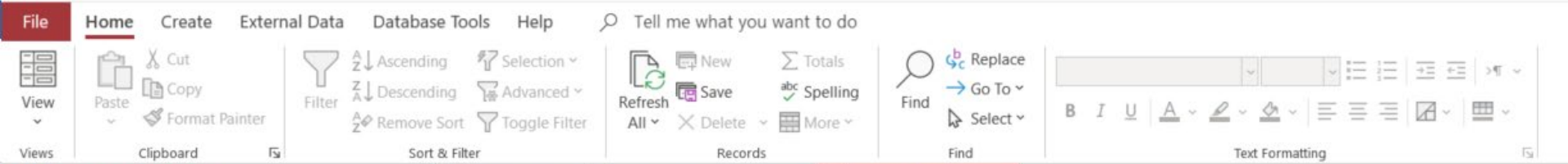
Keywords:

Submission Comment:

QA

Production

Begin Export Cancel



- All Access Objects
- Search...
- Tables
- ControlApproach
 - ControlMeasure
 - ControlPollutant
 - DeleteReportingPeriod
 - DocumentHeader
 - Emissions
 - EmissionsProcess
 - Location
 - OperatingDetails
 - Regulation
 - ReportingPeriod
 - SupplementalParameter
- Queries
- Query1
 - Query2
- Forms
- frmMainMenu

Export to CERS XML

File Location:

Complete / Verify Header Information

Data Category:

Emissions Year:

Submission Type:

User Identifier:

Author Name:

Organization Name:

Program System Code:

EPA Dataset:

Keywords:

Submission Comment:

Agency Organization Detail

CURRENT AGENCY

Agency Description: North Carolina Department of Environmental Quality
Agency Type: State
ETL Process Group: 2

[Agency Responsibilities](#) | [Agency Members](#) | [Program System Codes](#) | [Allow Access](#) | [Feedback Reports](#) | [Nonpoint Survey](#)

PROGRAM SYSTEM CODES

Show entries

Agency Main System	Available	Code	Description	Agency	Agency Type
★ Facility Inventory	☆ Event	NCDAQ	North Carolina Department of Air Quality	North Carolina Department of Environmental Quality	State

Showing 1 to 1 of 1 entries

Download Results: [CSV](#)

File Home Create External Data Database Tools Help Tell me what you want to do

View Paste Copy Format Painter Filter Sort & Filter Records Find Text Formatting

Ascending Descending Remove Sort Selection Advanced Toggle Filter Refresh Save Delete More Replace Go To Select

All Access Objects

- Search...
- Tables**
- ControlApproach
 - ControlMeasure
 - ControlPollutant
 - DeleteReportingPeriod
 - DocumentHeader
 - Emissions
 - EmissionsProcess
 - Location
 - OperatingDetails
 - Regulation
 - ReportingPeriod
 - SupplementalParameter
- Queries**
- Query1
 - Query2
- Forms**
- frmMainMenu

Main Menu Export to CERS XML

Export to CERS XML

Export to CERS XML

File Location:

Complete / Verify Header Information

Data Category:

Emissions Year:

Submission Type:

User Identifier:

Author Name:

Organization Name:

Program System Code:

EPA Dataset:

Keywords:

Submission Comment:

EIS Feedback Reports

feedback reports in EIS

VIEW/ADD/EDIT

- » Facility Inventory and Point Emissions
- » Potential Duplicate Facilities
- » Nonpoint/ Onroad/ Nonroad Emissions
- » Event Emissions
- » CDB Activity Data
- » Nonpoint Survey

REPORTS

- » Request Reports
- » Report Downloads
- » Large File Download
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- » Agency Submission History Report
- » Data Completeness Report

REFERENCE DATA

- » Reporting Code Tables

Agency Organization Detail

CURRENT AGENCY

Agency Description: North Carolina Department of Environmental Quality
Agency Type: State
ETL Process Group: 2

- Agency Responsibilities
- Agency Members
- Program System Codes
- Allow Access
- Feedback Reports
- Nonpoint Survey

SUBMISSION HISTORY

Show 25 entries

Search cdx tracking # Search status Search submitter Search data category Search type Search inven Search model/epa dataset Search su

CDX Tracking #	Status	Submitter	Data Category	Type	Inventory Year	Model/EPA Dataset	Submitte
_dc5bd20f-1d2c-4152-817a-762cecd650b	COMPLETED	Tammy Manning	Point	PRODUCTION	2021		2022/12/2

EIS Feedback Reports

EIS Feedback Report:
Number of data records submitted,
validity of Codes

Critical errors: Incorrect fields, missing information, no unit of measurement

Warning checks: Magnitude is off (conversion error or incorrect unit of measurement reporting)

Augmentation



Augmentation

- Types of Augmentation:
 - HAP
 - PM
 - Chromium speciation
- Please don't augment the data yourselves. We've got this.

HAP Augmentation

- **Incomplete SLT HAPs** are augmented in EIS using SLT-submitted VOC (HAP VOCs) or PM2.5 (HAP metals)
- EIS includes latest available augmentation factors, consistent with EPA nonpoint tools
 - Preferred over many AP-42 factors for the NEI
 - Submittal of HAPs has no impact on Nonpoint completeness
- When SLTs submit VOC HAPs, QA required on the “selection” HAP VOCs vs VOC
 - Can be a mix of SLT-submitted HAPs and EIS Augmentation
- Allowing EIS to augment HAPs streamlines Nonpoint QA

PM Augmentation

- EIS includes latest available augmentation factors, consistent with EPA nonpoint tools
- Ultimately, as long as primary PM2.5 and PM10 (PM25-PRI and PM10-PRI) are provided, we consider PM “complete”
 - EIS will augment for PM-CON for combustion sources for all SCCs with EPA tools
 - PM filterables augmented for all nonpoint SCCs with EPA tools
 - Primary PM will be augmented where missing for all nonpoint SCCs – so long as another PM component was submitted

Chromium Speciation

- Speciated chromium pollutants are the most useful pollutants for the NEI
 - EPA speciates SLT-reported and TRI-based total chromium into hexavalent chromium (Chromium VI) and non-hexavalent chromium (mostly Chromium III)
- The 2020 NEI does not contain any total chromium, only the speciated
- The sum of the EPA-computed species (hexavalent and trivalent chromium) equals the mass of the total chromium (i.e., pollutant 7440473) submitted by the SLT agencies

EPA Datasets Augmentation

- Wagon Wheel outputs
- Non-WW datasets
 - Oil and gas tool
 - Ag fertilizer
 - Portable fuel containers
 - Biogenics outputs
 - CMV/Rail

Summary recommendations if you submit emissions

DO

- Decide what the priority categories for you state are
- Review the most current methods EPA has
- Compare your suite of pollutants to the expected pollutant list
- Check for missing data
- Provide Documentation
- Review your Feedback Reports in EIS

DON'T

- Use old methods
- Submit pollutants that are not on the Expected Pollutant List (EPL)
- Waste time on inconsequential categories for your state
- Submit VOC-HAPs if they add up to more than your VOC

EPA QA on Nonpoint Submittals

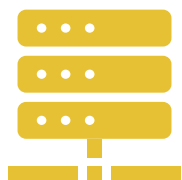
Nonpoint QA Business Rules

Table 3-8 in 2023 NEI Plan (Section 3.4.2, Page 21)

Item	If an agency submits...	EPA will ...	Unless...
1	Emissions that exceed EPA expected outlier check values	Use EPA estimates in lieu of SLT data	State provides supporting material on how the emissions were estimated, including activity and emission factor details where available
2	Pollutants not in expected pollutant list	Remove these pollutants (e.g., VOC from road dust, metals from evaporative processes)	SLT provides documentation on these unexpected pollutants
3	VOC but no HAPs	Run HAP augmentation off of the SLT-submitted VOC, and this data will take precedence over any EPA tool data	The VOC submitted falls outside of EPA's expected outlier check
4	Total VOC-HAPs > VOC (the sum of all of the HAPs that are VOCs adds up to more than the submitted VOC value)	Remove all state submitted VOC-HAP data and instead, use HAP augmentation off of the SLT VOC value	
5	VOC and different VOC-HAPs than our expected pollutant list	Gap fill using HAPs generated by HAP augmentation off the SLT VOC value	The sum of VOC-HAPs adds up to more than the VOC value; (see 4 above); in this case, all SLT HAPs will be removed and replaced with HAP augmentation off the SLT VOC value
6	An incomplete set of expected criteria pollutants	Supplement using EPA tool data for the pollutants that are not submitted	SLT provides documentation to why those emissions should not exist
7	VOC data for different SCCs, but similar process characteristics to what EPA uses	EPA will augment VOC-HAPs with similar profiles	State also submits HAPs with that VOC

Iterative QA Summary Reports

Iterative QA Summary Report Process



SLT data

Your agency submits data into EIS

-

EIS updates the database weekly (Sunday) with new data



EPA runs checks

R script uses Oracle Connection to read in new submission data

-

QA Checks using R, Generate Rmarkdown HTML report



Feedback

Provide timely feedback as appropriate (run every Sunday night, so 7 days max)

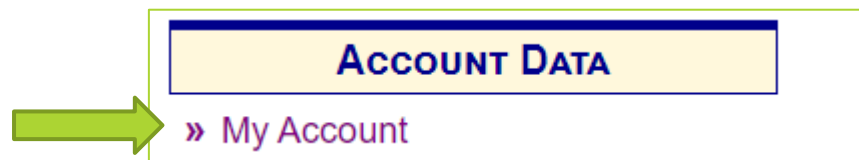
-

No negative feedback, Goal is to be informative and helpful

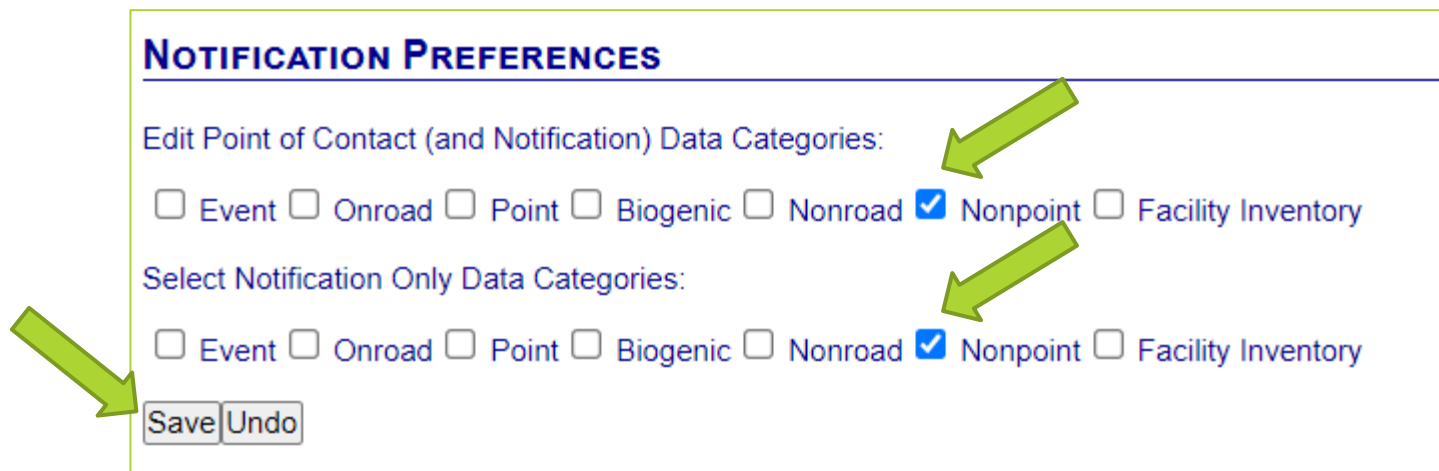
Who will the EPA email the report to?

- ▶ Agency members who have requested nonpoint notifications in the EIS Gateway will receive the report. To check your preferences:

Log into the EIS Gateway and click on “My Account” under “Account Data”



Confirm that the box for “Nonpoint” under “Notification Preferences” is checked or either Point of Contact or Notification Only. Click “Save” to confirm preferences.

A screenshot of a web form titled "NOTIFICATION PREFERENCES". It has two sections: "Edit Point of Contact (and Notification) Data Categories:" and "Select Notification Only Data Categories:". Each section has a row of checkboxes for "Event", "Onroad", "Point", "Biogenic", "Nonroad", "Nonpoint", and "Facility Inventory". In both sections, the "Nonpoint" checkbox is checked. At the bottom left, there are "Save" and "Undo" buttons. Three green arrows point to the "Nonpoint" checkboxes and the "Save" button.

How to open and view the report

- ▶ The Iterative QA Summary Report is an HTML file and will open in your internet browser.
- ▶ Download the report to your local computer or open it directly from your email if your agency's IT allows.
- ▶ If you have problems opening a report, please email NEI_help@epa.gov.

The screenshot shows a web browser window displaying an HTML report. The browser's address bar shows the file path: C:/Users/Idayton/OneDrive%20-%20Environmental%20Protection%20Agency%20(EPA)/Documents/NEI%20QA/NP_IterativeQA_Training/Report-DEMO-2021-12-02.html. The report content is as follows:

Nonpoint QA Summary for Agency Name

Submission Summary
Nonpoint Survey Status: **80%**

Critical QA Checks
Missing Criteria Pollutants

Additional QA Checks
Unexpected Criteria Pollutants
Unexpected Hazardous Pollutants
Missing Hazardous Pollutants
Zero Emissions

EIS Nonpoint Submission Summary Report

We realize the window is still open, but in the new paradigm of automated QA here at EPA, we're providing timely feedback on your submission. You still have until March 2022 to submit!
- EPA NEI Nonpoint QA Team

Report generated on: December 02, 2021

Nonpoint QA Summary for Agency Name

EIS submission date(s): 2021-11-22, 2021-11-19
Submission included: 20 sectors, 98 SCCs

Submission Summary

The following summary contains information on the most relevant and urgent QA findings for the 20 sectors included in your recent submission(s). We appreciate your time in reviewing these findings and helping us build a complete and accurate emissions inventory. You will receive a new summary report with any additional submissions throughout the submittal window. Once the submittal window closes, additional QA will be done on all submissions to determine completeness based on your Agency's nonpoint survey answers.

Please remember to include all pollutants, not just revised pollutants, if submitting corrected xml files.

Nonpoint Survey Status: **80%**

This information reflects the percent completed of your Agency's most current nonpoint survey submission located in the [EIS Gateway](#). Please visit the Gateway to complete the survey.

- ▶ After your QA, make sure to include ALL pollutants, not just revised pollutants if submitting updated XML files
- ▶ If you submit emissions to EIS, be sure to submit supporting documentation to the NOMAD SharePoint Work Page
 - ▶ Would be required if AERR Proposal is finalized

Completeness Reports

What is the Completeness Report?

The 2023 NEI Plan refers to a Completeness Report (p. 27)

SLT agencies can run this report in EIS anytime to assess how complete their submission is for the inventory year, by EPA's standards

EPA will send a reminder of these about a month before the submittal windows close for each data category

What is
considered
“Complete”?

Nonpoint

- Nonpoint Survey complete
- List of Input Templates submitted
Expected CAPS/SCC percentage if
submitting emissions

Nonpoint Survey Tab on Completeness Report

Nonpoint Emissions Data Completeness Summary Report

Data Completeness Report

Select Data Category

Data Category:
 Inventory Year:

Nonpoint Survey | Emissions Reporting

Show entries

Search agency organization | Search # completed survey source categories | Search # survey source categories | Search categories not completed

Agency Organization	# Completed Survey Source Categories	# Survey Source Categories	Categories Not Completed
25	35	35	
Puerto Rico	33	35	Ag Silage, Asphalt Tool
Missouri Department of Natural Resources	33	35	Ag Silage, Asphalt Tool
Kansas Department of Health and Environment	33	35	Ag Silage, Asphalt Tool
Arizona Department of Environmental Quality	32	35	Ag Silage, Asphalt Tool, ICI Fuel Combustion - Commercial/Institutional Coal
Texas Commission on Environmental Quality	10	35	Ag Burning Estimates, Ag Silage, Asphalt Tool, Backyard BBQ Tool, Commercial Cooking Tool, Construction Dust Tool, Gasoline Distribution Tool, ICI Fuel Combustion - Commercial/Institutional Natural Gas, ICI Fuel Combustion - Commercial/Institutional Oil, ICI Fuel Combustion - Commercial/Institutional Other, ICI Fuel Combustion - Commercial/Institutional Wood, ICI Fuel Combustion - Industrial Coal, ICI Fuel Combustion - Industrial Natural Gas, ICI Fuel Combustion - Industrial Oil, ICI Fuel Combustion - Industrial Other, ICI Fuel Combustion - Industrial Wood, Mining & Quarrying Tool, Oil And Gas Tool, Open Burning Tool, POTW Tool, Portable Fuel Containers Estimates, Residential Non-Wood Combustion Tool, Residential Wood Combustion Tool, Road Dust Tool, Solvent Tool
			Ag Fertilizer Tool, Ag Pesticide Tool, Ag Silage, Ag Tilling Tool, Asphalt Tool, Aviation Gasoline Tool, Backyard BBQ Tool, Commercial Cooking Tool, Composting Tool, Construction Dust Tool, Dust from Hooves Tool, Gasoline Distribution Tool, ICI Fuel Combustion - Commercial/Institutional Coal, ICI Fuel Combustion - Commercial/Institutional Natural Gas, ICI Fuel Combustion - Commercial/Institutional Oil, ICI Fuel Combustion -

Aim for 35 (arrow pointing to Missouri Department of Natural Resources)

Still need answers (arrow pointing to Texas Commission on Environmental Quality)

Emissions Reporting Tab on NP Completeness Report

Nonpoint Emissions Reporting Detail Report

[Data Completeness Report](#) » [Nonpoint Emissions Data Completeness Summary Report](#)

NOTE: This report ONLY looks at places where you asked EPA NOT to supplement your data.

Agency Description: South Carolina Department of Health and Environmental Control
 Survey Year: 2020
 Survey Status: Complete
 Total # Counties: 46
 Data Last Updated: 2021-11-24 03:00:00 AM

Show 25 entries

EPA Category	Template Provided	NP SCC	Sector Description	SCC Short Name	Survey Answer	Survey Comment	# Counties Submitting Data	Acres Burned	Sum CO	Sum NOX	Sum SO2
Ag Burning Estimates	No	2801500263	Fires - Agricultural Field Burning	Agricultural Field Burning: Wheat and Cotton	No - Do Not Supplement My Data	No - I do not have this Source	0	0	0	0	0
Ag Burning Estimates	No	2801500264	Fires - Agricultural Field Burning	Agricultural Field Burning: Wheat and Soybeans	No - Do Not Supplement My Data	No - My inventory is complete. It does not need to be supplemented.	0	0	0	0	0

Showing 1 to 2 of 2 entries
 Download Results: [CSV](#)



If you're not submitting emissions, consider using one of the other answers (other than option 4)

- "Yes - Supplement my data with EPA estimates"
- "No - Do Not Supplement My Data". You also have the option to select one of these 4 optional comments:
 1. No - I do not have this Source
 2. No - This source is included in my Point Source contributions
 3. No - My agency uses different SCCs
 4. No - My inventory is complete. It does not need to be supplemented.

ICI Fuel Combustion Point Source Subtraction

Abt Associates

Schedule and AERR Impacts on Nonpoint

Schedule

- Really great resources in the 2023 Plan
 - Table 2-1, Overall NEI Schedule
 - Table 2-5, NEI Schedule for Nonpoint Data Category
 - Tables 3-2, Suggested SLT schedule for Nonpoint



AERR: Proposed Additions and Changes for Nonpoint Sources

Comment period closes October 18, 2023

Current AERR

► Triennial reporting

- **Mandatory CAP emissions reporting for nonpoint**
 - Optional nonpoint “survey” (widely used)
 - Can instead accept EPA data, and are encouraged to review and comment on model inputs (widely done)
 - Includes locomotives and commercial marine vessels
- **Deadline December 31st of year after the inventory year (e.g., 12/31/2024 for 2023 inventory)**

Proposed Revisions

- **Mandatory nonpoint survey**
- **Nonpoint sources with EPA tools**
 - Report model inputs, or can review, comment, and/or accept EPA data, and
 - Can optionally report emissions (and if so, must include documentation)
- **For locomotives and commercial marine vessels:**
 - Can report emissions, or can review, comment, and/or accept EPA data
- **For nonpoint sources without EPA tools:**
 - Must report CAP emissions and documentation
 - Can optionally report HAP emissions (and if so, must include documentation)
- **Deadline changes – next slide**
- **Provisions for overlapping tribal and county boundaries – upcoming slide**

Proposal Would Change

2023 NEI Key Dates: Overall Schedule

- See Page 3 of the 2023 Plan for more details

Item	Date
Submittal Window Opens	7/1/2024
Submittal Window Closes for Point, Onroad/Nonroad Mobile, fires, and Nonpoint without EPA Tools	1/15/2025
Completeness Reports for all but Nonpoint	2/15/2025
NP Survey due	3/31/2025
Completeness Reports for Nonpoint	4/30/2025
2023 Full Public Release of the NEI	3/31/2026

2023 NEI Key Dates: CMV and Rail

- See Table 3-3 in 2023 NEI Plan

Item	Date
Emissions submittal due	January 15, 2025
Download from SharePoint, review, comment period on draft CMV data	February 15 – April 15, 2025
Deadline for providing comments to EPA on draft CMV data	April 15, 2025
Download from SharePoint, review, comment period on draft Rail data	April 15 – June 15, 2025
Deadline for providing comments to EPA on draft EPA Rail data	June 15, 2025

2023 NEI Key Dates: Fires*

- August 1, 2024: Join Fires workgroup
- August – December 15, 2024: Submit questionnaire on submitting fire activity to EIS, including wildland and agricultural fires
- September 1, 2024: Download SMARTFIRE2-BlueSky draft wildland fire and ag burning emissions from EPA's 2023 NEI FTP site
- December 15, 2024:
 - Due date for submitting all fire activity data and questionnaire
 - Due date for comments on draft fire inventory data
- May 15 – July 15, 2025: Final wildland and ag fire emissions data review period

*Under the current AERR, wildfires and prescribed fires are voluntary and agricultural fires are required to be reported as nonpoint. However, EPA would prefer SLTs to review EPA day-specific ag fires data in lieu of reporting county total ag fires.

Proposed Nonpoint Source Deadline Changes

12 months and 15 days after the end of the inventory year:

- States must report emissions and documentation for sources without EPA tools (Jan 15, 2025)

15 months after the end of the inventory year:

- A state must report their nonpoint survey (March 31, 2025)

For sources with EPA tools:

- A state must report its nonpoint tool inputs (for EPA tools) within 30 days after EPA provides tool inputs to the state, or within the period defined by the EPA at time the tool inputs are provided, whichever is longer
- When a state optionally provides nonpoint emissions for sources with EPA tools, a state must report that data and documentation within 60 days of EPA providing tool inputs to the state, or within a longer period defined by the EPA when the tool inputs are provided
- 2023 NEI Plan reflects these dates (technically not required under the current AERR, but AERR revision expected to be final)

Another way to look at it:

Where EPA Tools Exist (e.g. Wagon Wheel)	No EPA emissions exist (no tools, e.g., structure fires)
Inputs required* 30 days** after the EPA tool is published (there are 4 release versions of the Wagon Wheel, see activity data tracker).	Emissions are required by January 15, 2025* Documentation is required*
If you choose to submit Emissions , that deadline is 60 days after the sources that are covered by that version of the EPA Tool (including WW) is released.** Documentation is required.	

We could decide to give more time than 30 days pending more information on which sectors are included in the final release and the complexity of any issues that arise.

*if proposed AERR is finalized as proposed.

**Could be longer if EPA changes.

Recommended Steps for Nonpoint (not all inclusive, see 2023 Plan for more)

Now:

- Join NOMAD committee to attend monthly calls and access NOMAD SharePoint site for data analysis, data, and documentation
- Read the 2023 Plan
- Read the 2020 TSD (nonpoint sectors of interest)
- Get a feel for what sectors you want to work on versus what you'd accept EPA estimates
- Get on AirKnowledge and do some training
- Download expected pollutants list

August 2024 – January 1, 2025:


- Download first version of Wagon Wheel
- Review draft activity data, run WW and review emission estimates
- Determine Nonpoint Survey responses and whether plan to develop emissions or inputs
- While final activity data will change for most WW sources, you should have a good idea if you plan to submit emissions AND want to prevent any possible EPA (WW) data from “back filling” any missing SLT estimate

March 31, 2025:


- Due date for Nonpoint Survey.
- If submitting emissions, due date to ensure submittals are reflected in your nonpoint completeness report in EIS
- Due date to submit emissions and inputs for all nonpoint except EPA Tools (such as WW sources) where activity data NOT finalized by January 31, 2025

Questions?

Appendix



Proposed AERR Impacts to Nonpoint: Key Dates



- Comment period on AERR Proposal ends October 18, 2023
- Extended deadlines for some WW sources
 - After March 31, 2025, for each WW release update:
 - July 31, 2025: Estimated release of 3rd (final) version of WW
 - 30 days to submit updated activity data = August 31, 2025
 - 60 days to submit updated emissions & associated documentation and inputs = September 30, 2025

1:00-1:20	<ul style="list-style-type: none"> • Welcome and introductions • What is nonpoint? • How is the inventory put together? • What is an SCC? • How do we select data for the NEI?
1:20-1:30	<p>The Cheat Sheet (Nonpoint Data Category Guide for New Submitters)</p> <ul style="list-style-type: none"> • Site Access • Trainings/Manuals/Documentation
1:30-1:45	<p>Meeting Your Requirements for Submitting to Nonpoint</p> <ul style="list-style-type: none"> • Options for Submitting • How do I decide? • Do's and Don'ts
1:45-2:30	<p>Wagon Wheel and Input Templates (Abt Associates)</p> <ul style="list-style-type: none"> • Wagon Wheel • Input Templates • Activity Data Tracker

2:30-2:45	Break
2:45-3:00	<p>Nonpoint Survey</p> <ul style="list-style-type: none"> • The Easy Button • Quick Walk Through • Scenarios
3:00-3:30	<p>Submitting Your Own Emissions Estimates</p> <ul style="list-style-type: none"> • Documentation and Inputs • Expected Pollutants List • Bridge Tool/ENSC • Feedback reports • Iterative QA Reports • Augmentation
3:30-3:45	Break
3:45-4:30	ICI Fuel Combustion Point Source Subtraction
4:30-5:00	Schedule & Key Dates

Nonpoint Survey Comments



2801500000/Ag burning-unspecified method and crop

Should EPA Supplement your agency data?

-- Select One --

Comments 500 Characters remaining

Save

The image shows a dialog box for editing a record. The title bar reads '2801500000/Ag burning-unspecified method and crop'. The main content area contains a question 'Should EPA Supplement your agency data?' followed by a dropdown menu currently showing '-- Select One --'. Below the dropdown is a text area for 'Comments' with a character count of '500 Characters remaining'. A 'Save' button is located at the bottom right of the dialog box.



No Comments Present



Comments Present



Record Has Been
"Tagged" by EPA