

US EPA ARCHIVE DOCUMENT



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News and Events

Introducing the AirNow Discussion Forum

The EPA and the AirNow Data Management Center (DMC) have recently introduced the AirNow Discussion Forum to the community.

Located under the Help tab or at <https://forum.airnowtech.org/>, the AirNow forum is a place to ask questions and join a discussion on various AirNow topics, including

Polling Summary

Color Legend			
Green	Current	Yellow	2 to 6 hrs old
Red	over 6 hrs old	Gray	Unknown status

March 31, 2016 11:32 (ET) (All times are in ET)

Agency	Ozone	PM _{2.5}	PM ₁₀
AB1	03/31 09:00	03/31 09:00	02/25 09:00
AIR			
AK1	03/31 10:00	03/31 10:00	03/31 10:00

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U.S. EPA Region 5

April 5, 2016



What is AirNow Tech? Why is it a useful tool?

AirNow Tech is a password-protected website for air quality data management analysis, and decision support. AirNow Tech is primarily used by the federal, State, Tribal, and local air quality organizations that provide data and forecasts to the AirNow system, as well as researchers and other air data users. It allows users to:

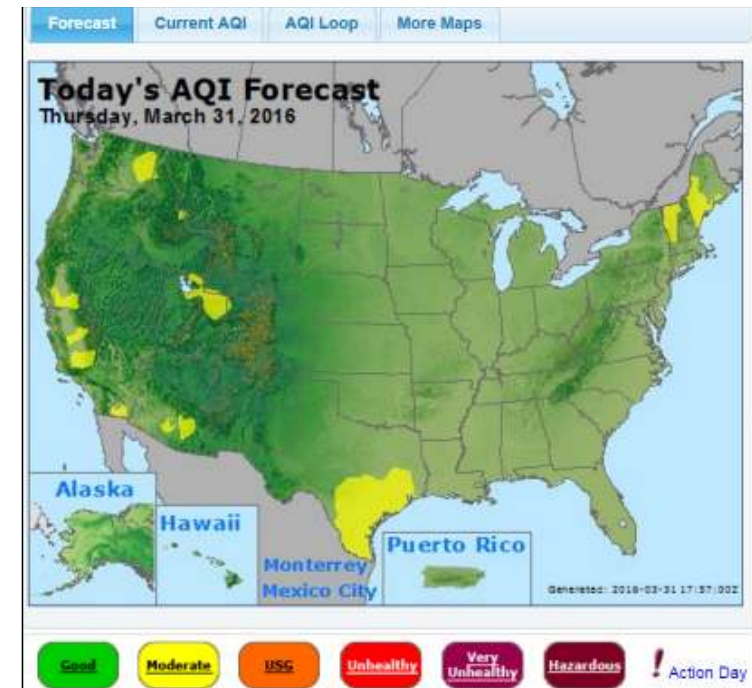
- Access monitoring site data, information, and polling status
- Analyze current and past air quality events and episodes
- Submit and analyze air quality forecasts
- Configure EnviroFlash email services for public dissemination of air quality forecasts
- View meteorological and air quality data
- Generate data reports
- Create GIS-based maps with air quality and meteorological conditions

AirNow Tech allows users to access near-real time air monitoring data used to calculate the Air Quality Index (AQI)

The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air.

The purpose of the AQI is to help you understand what local air quality means for your health. To make it easier to understand, the AQI is divided into six categories:

Air Quality Index (AQI) Values	Levels of Health Concern	Colors
When the AQI is in this range:	..air quality conditions are:	...as symbolized by this color:
0 to 50	Good	Green
51 to 100	Moderate	Yellow
101 to 150	Unhealthy for Sensitive Groups	Orange
151 to 200	Unhealthy	Red
201 to 300	Very Unhealthy	Purple
301 to 500	Hazardous	Maroon



Generate Data Queries in AirNow Tech – Bad River Ozone Data

AirNow Tech

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Dashboard **Data** Navigator Forecasts Polling Notifier Tools Help

Data Queries | Reports

My Queries

Select:

Name:

Display Settings

Date Range: ☐ Last Days

☒ 03/21/2016 03/29/2016

Display: ☒ Graph

☒ Table

Filter By: ☐ QC Code

Query Settings

Query Type:

Site(s): [Site Selector](#)

Filtered Data Set(s):

Selected Data Set(s):

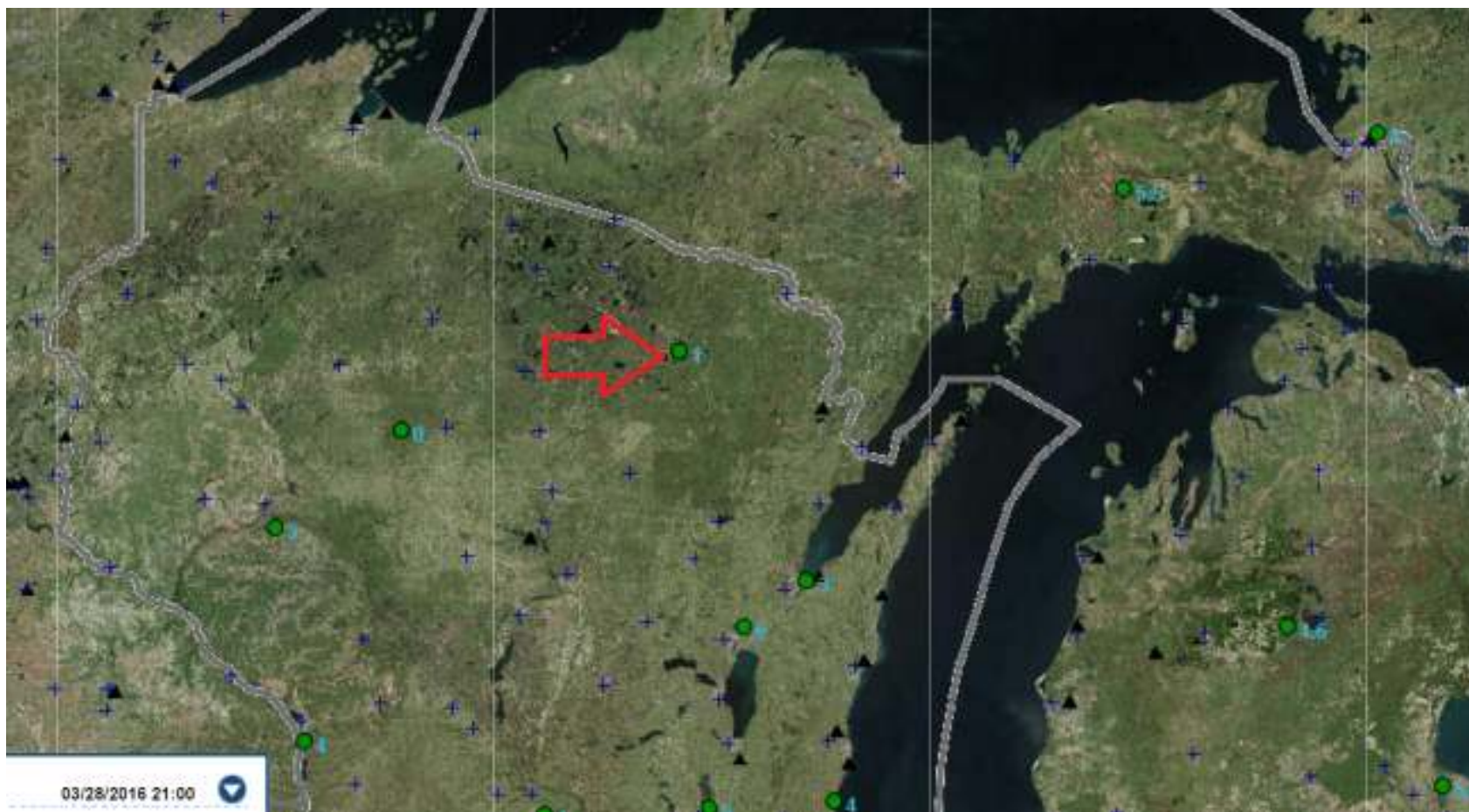
[Clear](#)

Bad River Ozone Data (March 2016)



The AirNow Tech Navigator Tool allows you to map continuous air monitoring sites and any associated data of these monitoring sites.

Question: What PM2.5 air monitoring site is the arrow pointing to?



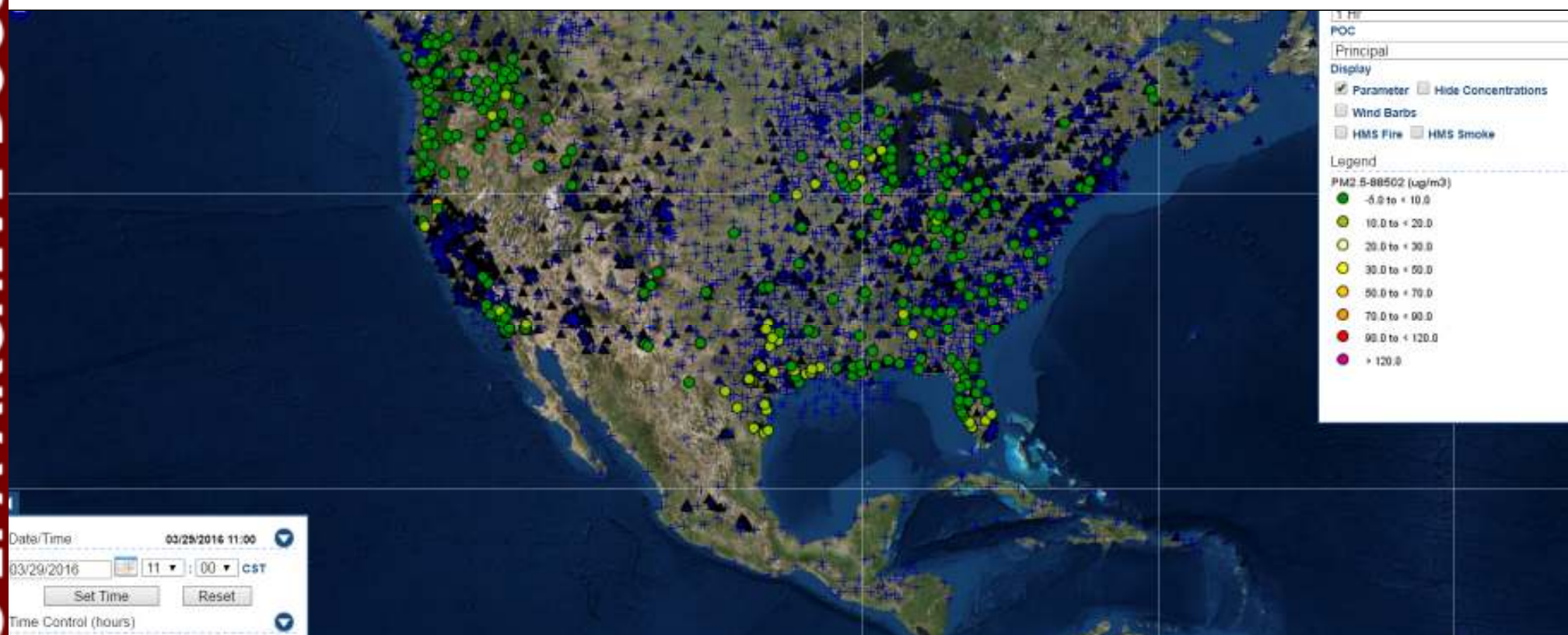
The Potawatomi Air Monitoring Site

Potawatomi

AQS Site ID: 55-041-0007
Location: Fire Tower Rd.
County: Forest
GPS coordinates: 45.563
-88.8088
Date Established: 6/7/2002
CBSA: None
MSA:
UA: Not in an urban
area
AQCR: North Central
Wisconsin Intra-
State



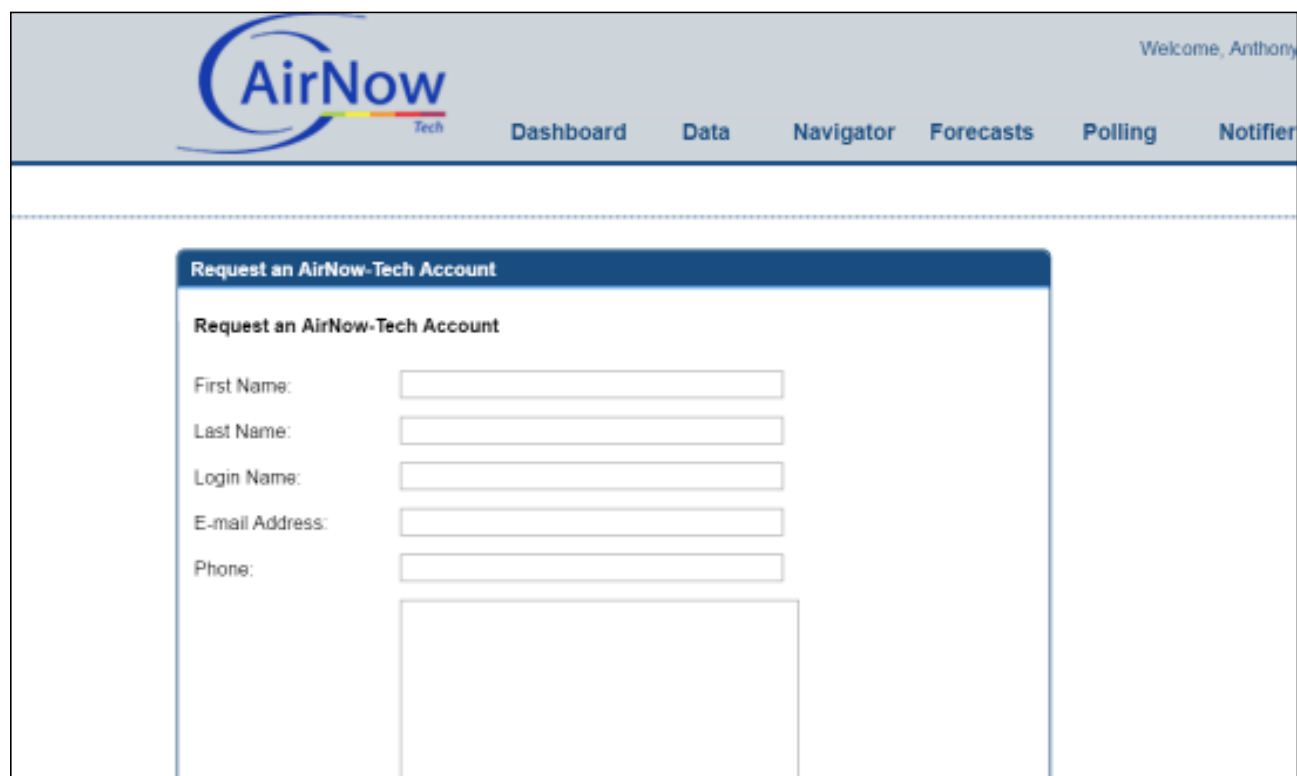
The AirNow Tech Navigator Tool also allows you to map continuous air monitoring sites (and any associated data) throughout the United States.....



.....and other places around the world.



Link to Register for AirNow Tech Account: <https://www.airnowtech.org/requestAcct.cfm>



The screenshot shows the AirNow Tech website interface. At the top, the AirNow Tech logo is on the left, and a user greeting "Welcome, Anthony" is on the right. A navigation bar contains links for Dashboard, Data, Navigator, Forecasts, Polling, and Notifier. Below this, a form titled "Request an AirNow-Tech Account" is displayed. The form includes input fields for First Name, Last Name, Login Name, E-mail Address, and Phone, followed by a large empty rectangular box for additional information.

Request an AirNow-Tech Account

Request an AirNow-Tech Account

First Name:

Last Name:

Login Name:

E-mail Address:

Phone:

Training Modules are available on the AirNow Tech Website

Resources	
Contacts	Help
AirNow and DMC contact information	Frequently Asked Questions
	AirNow NowCast Explanation
AirNow-Tech Tutorial Materials	New Forecast Submittal System
AirNow-Tech Improvements	Tutorial Videos
Logging In	AirNow Forecast Submittal System FTP Instructions and sample files
Creating Site Lists	
Email Report Management on "My Account"	Enviroflash
Site and Monitor Management	New Users Start-Up Guide
Querying EBAMS data	EnviroFlash Improvements – October 2013
Data Management	EnviroFlash – Mobile Sign-up page
Quality Control (QC) Criteria - Part 1 - Part 2	
Site Management	Data Formats and Processing
Verification Sites	AirNow-I AQCSV Format Specifications Document (PDF file)
E-DAS software configuration for meteorological parameters	OBS file documentation and sample file
	Control Checks for AirNow Mapping System
Air Quality Forecasting Training Videos	Polling Performance 2012-2013
Course Introduction	Software
Speaker Introductions	
Air Quality Overview	
Why Forecast Air Quality	
How to Forecast Air Quality	

Additional Data Resources -- AirNow



Additional Data Resources -- AirData



Access to monitored air quality data from EPA's Air Quality System (AQS) Data Mart

Basic Information

AirData gives you access to air quality data collected at outdoor monitors across the United States. [Read more](#)

Visualize Data



AQI Plot
Compare AQI values for a location & time.



Tile Plot
Plot daily AQI values for a location & time.



Concentration Plot
Generate a time series plot for a location.



Concentration Map
Generate concentration maps for a specific time.

Download Data



Download daily or raw data to a spreadsheet or file.

Interactive Map



See where air quality monitors are located, get information about the monitors, and download monitor

Reports



Air Quality Index
Display an annual summary of AQI values.



Air Quality Statistics
Display standards-related summary data by city or county.



Monitor Values
Display criteria pollutant summary data.

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Latest News

- **April 2, 2014** - A Monitor Values Report for Hazardous Air Pollutants is now available
- **March 4, 2014** - Pre-generated files of data for the entire nation are now available at [Download Data Files](#). These are files of our most commonly requested parameters at the annual, daily, and hourly summary levels.


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Other Sources of Air Data

- [AirNow](#) - forecasts and real-time data
- [AirCompare](#) - help with planning a move or vacation
- [Air Emission Sources](#) -

Additional Data Resources -- National Emissions Inventory

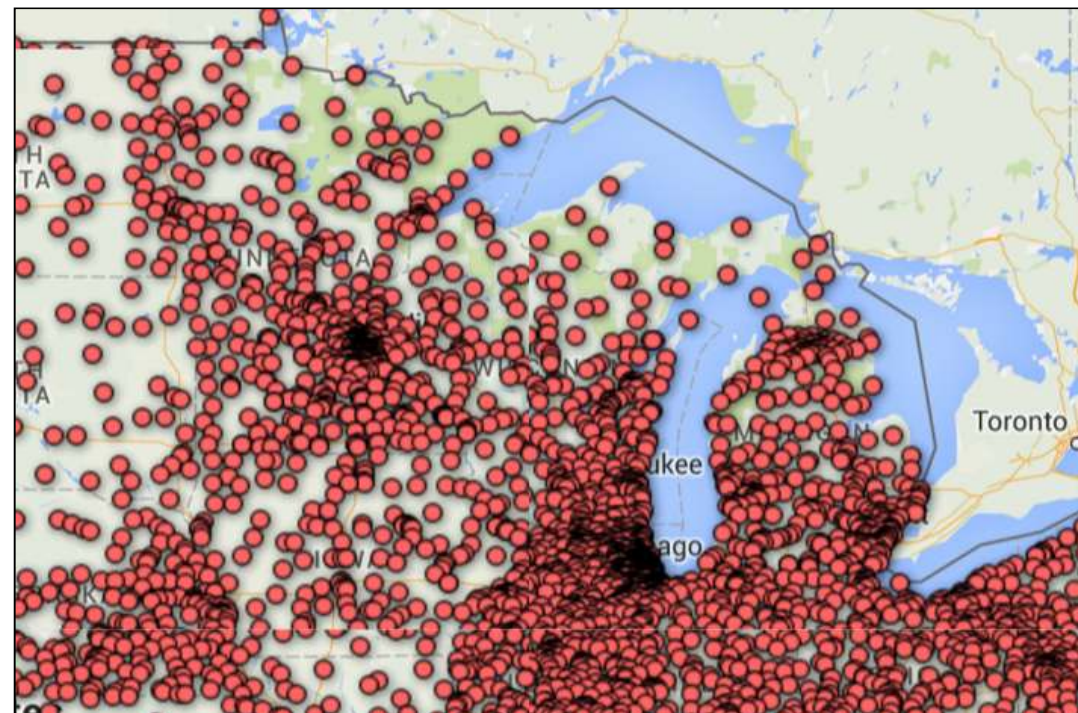
All pollutants listed below

Carbon Monoxide (CO)	Table Map	Mercury	Table Map
Volatile Organic Compounds (VOC)	Table Map	Chromium VI	Table Map
Oxides of Nitrogen (NOx)	Table Map	Arsenic	Table Map
Sulfur Dioxide (SO ₂)	Table Map	Acetaldehyde	Table Map
Particulate Matter ≤ 2.5 microns (PM _{2.5})	Table Map	Formaldehyde	Table Map
Particulate Matter ≤ 10 microns (PM ₁₀)	Table Map	Ethyl Benzene	Table Map
Ammonia (NH ₃)	Table Map	Acrolein	Table Map
Lead	Table Map	1,3-Butadiene	Table Map
Elemental Carbon part of PM _{2.5} (EC)	Table Map	1,4-Dichlorobenzene	Table Map
Organic Carbon part of PM _{2.5} (OC)	Table Map	Tetrachloroethylene	Table Map

2011 NEI Documentation

Documentation for the 2011 NEI is ongoing at this time. Updates will be posted as available. Requests for desk at info.chief@epa.gov.

- [2011 NEI Technical Support Document](#), PDF, 16.1MB updated 8/14/2015)
- [Appendix A for 2011 NEI v2 TSD](#), PDF, 362KB, updated 08/24/2015
- [Supporting Data and Summaries](#): data and documents developed by EPA, referenced in the TSD
- Quality assurance details
 - [Quality assurance routines for the 2011 data](#)(Excel, 21 KB)
 - [Emission Inventory System QA Changes for the 2011 NEI](#) (Excel, 62 KB)



Resource Links

AirNow Tech: <http://www.airnowtech.org/>

AirNow: <https://www.airnow.gov/>

AirData: <https://www3.epa.gov/airdata/>

Clearinghouse for Inventories and Emissions Factors: <https://www.epa.gov/chief>

A comprehensive list of EPA air pollution data sources: <https://www3.epa.gov/air/airpolldata.html>

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