



Regional Haze Technical Support System (TSS) Tools for Regional Haze Progress Reports Webinar

May 20, 2024

About the TSS

Purpose is to provide key summaries and results, with documentation, that address the technical elements of the Regional Haze Rule

Consolidates the data from:

- Air quality monitoring (IMPROVE network data)
- Modeling data analyses and results (from regional modeling projects, i.e., WRAP Regional Haze Platform for the 2nd round of planning)
- Emissions inventories (EPA NEI data, regional modeling inventories)
- Regional modeling simulation data (can download data from various platforms)

Key uses are:

- Visualization tools (graphs, tables, etc.)
- Download raw data

Fits within the larger framework

Air Data Management System

About the Air Data Management System (ADMS)

The ADMS is a framework for providing the foundational hardware, software, database, and web infrastructure for air quality research, analysis, and planning.

Featured Applications

Several applications have leveraged the ADMS to maximize resources, minimize costs, jump-start development, and facilitate maintenance and operation.



The Federal Land Manager Environmental Database (FED)

The Federal Land Manager Environmental Database (FED) is an online repository of air quality data and metadata sponsored by the National Park Service and the U.S. Forest Service. FED has been developed to help states, tribes, federal land managers, scientists, and planners evaluate air quality and visibility in federally-protected ecosystems using a variety of air quality datasets.



The Intermountain West Data Warehouse (IWDW)

The IWDW provides easy online access to monitored air quality data, gridded modeling products, emissions data, and an integrated suite of tools to help assess air quality in the intermountain West. The IWDW project is supported by multiple federal and state agencies with project management assistance from WESTAR-WRAP and technology development and operation by CSU-CIRA.



The WRAP Technical Support System (TSS)

The WRAP Technical Support System (TSS) is an online portal to the technical data and analytical results prepared by the members of the Western Regional Air Partnership for supporting States and Tribes in the development of their State and Tribal Implementation Plans (SIPs and TIPs) for tracking progress related to the EPA's Regional Haze Rule.



Versions of the TSS



<https://views.cira.colostate.edu/tssv2/>

TSSv2:

- for Round 2 Regional Haze analysis results
- Monitoring data through 2018
- Contains all the modeling work for R2 RH SIPs
- Maintained as a record/resource as R2 SIPs are evaluated and finalized



<https://views.cira.colostate.edu/tssv3/>

TSSv3:

- for Round 3 Regional Haze analysis results
- Most recent monitoring data (currently through 2022)
- Contains the data needed for R2 RH SIP Progress Report work
- To be built to suite R3 RH SIPs

Regional Haze Technical Support System

- Only ambient monitoring and emissions data and tools available so far (no modeling data yet)
 - Can filter via tabs up top
- Or tiles here

The screenshot displays the Regional Haze Technical Support System (TSS v3) interface. At the top, there is a green navigation bar with the system name and a search/login area. Below this, a horizontal menu contains tabs for 'MONITORING', 'EMISSIONS', 'MODELING', 'RESOURCES', and 'HELP'. A large banner image of a river in a mountainous area is labeled 'Rocky Mountain National Park'. Underneath the banner, there are several filter tabs: 'All', 'Monitoring', 'Emissions', 'Modeling', and 'Documentation'. The main content area is a grid of tiles. The first row includes 'Haze Summaries' (with a line chart), 'Haze Trends' (with a line chart), and 'Haze Metrics Tools' (with a bar chart). The second row includes 'Air Quality Analysis' (with a bar chart), 'Query Wizard' (with a flowchart), and 'Class I Area List' (with a map). A 'WRAP Storyboard' tile is at the bottom left. On the right side, there is a 'NOTICE' section and an 'UPDATES' section with a list of recent system changes and dates.

Air Quality Analysis Products

Regional Haze Technical Support System

MONITORING - EMISSIONS - MODELING - RESOURCES - HELP

Site Browser: Haze Summaries, Haze Trends

Express Tools: **Air Quality Analysis**, Haze Metrics Comparison, Haze Analysis (alpha)

Badlands National Park

Click to filter: All, Monitoring, Emissions, Modeling, Documentation

Air Quality Analysis
Tools for analyzing haze, ozone, and deposition impacts in Federal Class 1 Areas.

NOTICE
This preliminary launch of the TSS v3 website has been made available in preparation for Round 3 of Regional Haze planning. Only ambient data and tools are currently available since no Round 3 modeling or emissions work has been done yet.

UPDATES

- 11/14/23: The 1993-2022 IMPROVE RHR3 (Impairment) 5-year averages were updated (past years) and/or imported (2022) into the database.
- 11/14/23: The 1993-2022 IMPROVE RHR2 (Haze) 5-year averages were updated (past years) and/or imported (2022) into the database.
- 10/09/23: The 2016-2022 IMPROVE RHR3 (Impairment) Group Means were updated/imported into the database.
- 10/09/23: The 2016-2022 IMPROVE RHR3 (Impairment) Daily Budgets were updated/imported into the database.
- 10/09/23: The 2022 IMPROVE RHR2 Group Means were imported into the database.
- 10/09/23: The 2022 IMPROVE RHR2 Daily Budgets were imported into the database.
- 10/06/23: The redelivered full-year Jan-Dec 2022 IMPROVE Aerosol dataset update from UCD was imported into the database.
- 09/20/23: The user authentication system has been added and enabled on the website in order to allow registration, login, and elevated page access.
- 09/15/23: The Database Query Wizard tool has been added to the website and can be found on the Resources menu in the main navigation bar.
- 09/13/23: The Visibility Analysis Tools have been added to the website and can be found on the Monitoring menu in the main navigation bar.
- 08/24/23: The Class I Area List has been added to the website and can be accessed from the Resources menu on the main navigation.

Emissions Data Products

Regional Haze Technical Support System

MONITORING - EMISSIONS - MODELING - RESOURCES - HELP

Emissions Tools - Advanced

Grand Canyon National Park

Click to filter: All, Monitoring, Emissions, Modeling, Documentation

Emissions Tools - Advanced
Tools for analyzing haze, ozone, and deposition impacts in Federal Class 1 Areas.

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- 10/09/23: The 2022 IMPROVE RHR2 Group Means were imported into the database.
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<https://views.cira.colostate.edu/tssv3>

Regional Haze Progress Report Elements

Citation	Requirement	Rule citation
g(1)	Status of Control Strategies in the Regional Haze SIP	51.308(g)(1) and 51.309(d)(10)(i)(A)
g(2)	Emissions Reductions from Regional Haze SIP Strategies	51.308(g)(2) and 51.309(d)(10)(i)(B)
g(3)	Visibility Progress	51.308(g)(3) and 51.309(d)(10)(i)(C)
g(4)	Emissions Progress	51.308(g)(4) and 51.309(d)(10)(i)(D)
g(5)	Assessment of Changes Impeding Visibility Progress	51.308(g)(5) and 51.309(d)(10)(i)(E)
g(6)	Assessment of Current Strategy	51.308(g)(6) and 51.309(d)(10)(i)(F)
g(7)	Review of Visibility Monitoring Strategy	51.308(g)(7) and 51.309(d)(10)(i)(G)
g(8)	Review of Smoke Management Program	51.308(g)(8) and 51.309(d)(10)(i)(H)

Status of Control Strategies in the Regional Haze SIP

g(1)

A description of the status of implementation of all measures included in the implementation plan for achieving reasonable progress goals for mandatory Class I Federal areas both within and outside the State.

- Control measures that are state-regulated
- Additional control measures that the state relied on to meet RH requirements that took effect in the 2nd round (i.e., EPA regulations)
- Suggested TSS Products and Other Data Sources: None

Emissions Reductions from Regional Haze SIP Strategies

g(2)

A summary of the emissions reductions achieved throughout the State through implementing the measures described in paragraph (g)(1) of this section.

- Suggested TSS Products and Other Data Sources:
 - Internal Emissions Databases
 - [TSS – Advanced Emissions Data Analysis - Express Tools](#)
 - 2020 National Emissions Inventory (NEI) Data – [Online 2020 NEI Data Retrieval Tool](#)

Advanced Emissions Data Analysis - Express Tools #1 & #2

<https://views.cira.colostate.edu/tssv3/Express/EmissionsToolsAdvanced.aspx>

Product #1: Pollutant Composition by State and Sector: Search by Scenario (e.g., 2020 NEI, 2017 NEI, etc.), Pollutant, State, and Emissions Sector

Product #2: Sector Composition by State and Pollutant: Search by Scenario, Emissions Sector, State, and Pollutant (e.g., “Parameter”)

Charts - Raw Emissions Sectors		Filters				URL	Actions
#	Product	Scenario:	Parameter:	State:	Sector:		
1	Pollutant Composition by State and Sector RAW	NEI 2020ha - Raw	NOX	Arizona	21 selected		Submit
2	Sector Composition by State and Pollutant RAW	NEI 2020ha - Raw	ptegu	Arizona	9 selected		Submit

2020 NEI Data Retrieval Tool

g(2)

- Filter the 2020 NEI to review county-level data and facility data
- County level data includes CAPs and HAPs for onroad mobile, nonroad mobile, and nonpoint, or area, data categories.
- Facility-level totals for CAPs and HAPs
- Can right-click and download data

STATE_NAME: North Dakota | Latest_Site_Name: Hess Tioga Gas Plant ...

Location: | Pollutant:

To download data selection, right click on table and select Export data

Overview		County Level Data				Facility Data										
2020 Facility-Level Data for Point Emissions																
State	State-County	Pollutant	Emissions (Tons)	Pollut...	Site Name	EIS Fa...	Facility Type	Street Address	NAICS	Lat/Lon	EPA Regi...	FIPS				
North Dakota	ND - Williams	Carbon Dioxide	245,893.28769	GHG	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Sulfur Dioxide	1,268.04000	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Nitrogen Oxides	589.17666	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Carbon Monoxide	203.89549	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Methane	109.24801	GHG	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Volatile Organic Compounds	45.34000	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	PM2.5 Primary (Filt + Cond)	16.45902	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	PM10 Primary (Filt + Cond)	16.45902	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Formaldehyde	2.52000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Acrolein	2.23000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Methanol	0.74000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Benzene	0.44000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
North Dakota	ND - Williams	Nitrous Oxide	0.37566	GHG	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105				
Totals			248,148.21155													

Visibility Progress

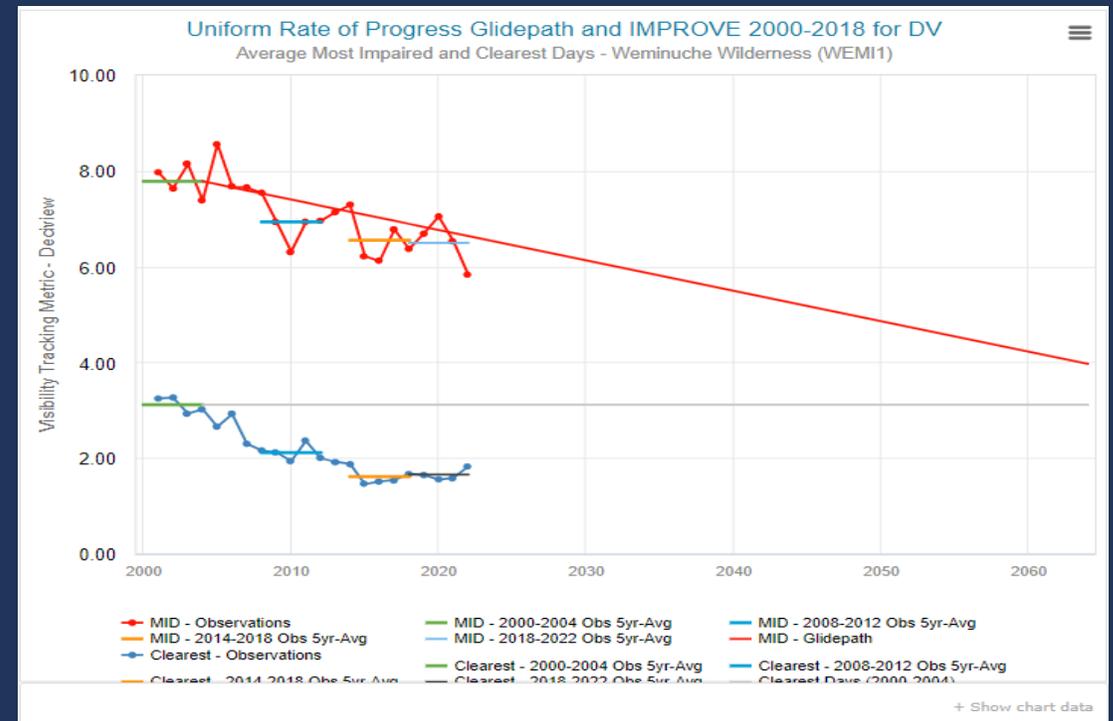
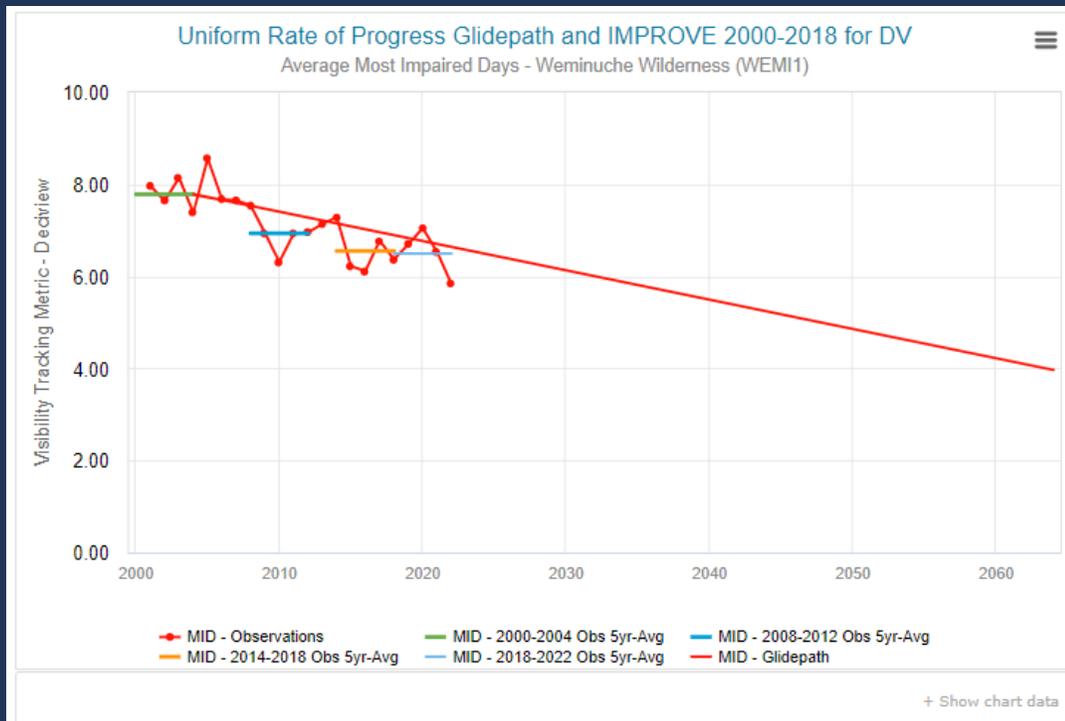
For each mandatory Class I Federal area within the State, the State must assess the following visibility conditions and changes, with values for most impaired and clearest days expressed in terms of 5-year averages of these annual values.

- (i)(B) The current visibility conditions for the most impaired and clearest days;*
- (ii)(B) The difference between current visibility conditions for the most impaired and clearest days and baseline visibility conditions;*
- (iii)(B) The change in visibility impairment for the most impaired and clearest days over the past 5 years.*

(i)(B) The current visibility conditions for the most impaired and clearest days

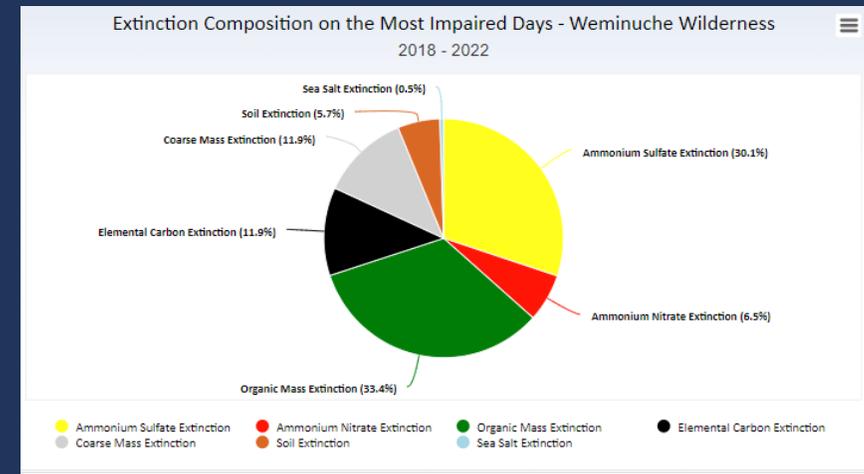
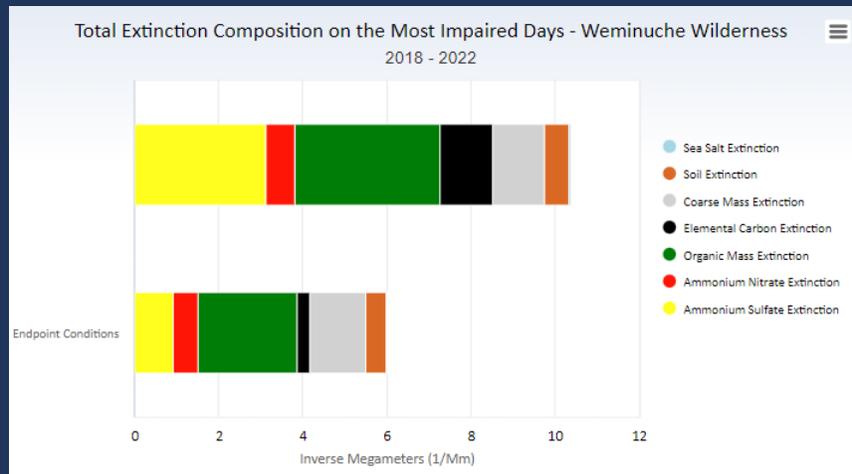
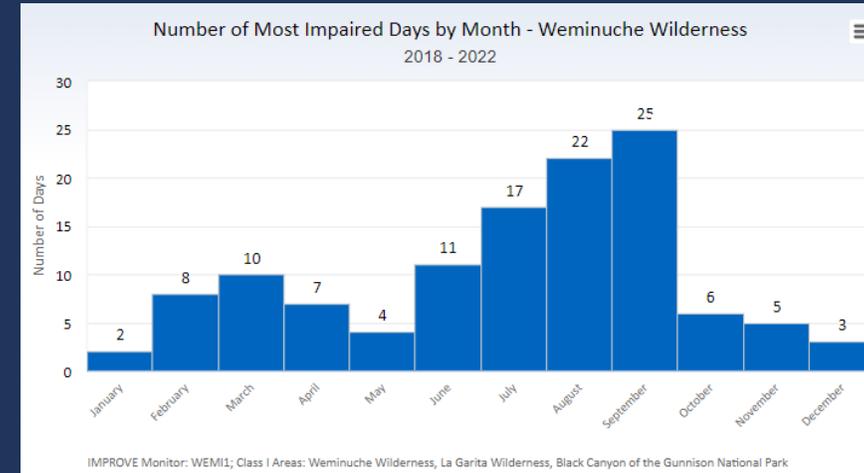
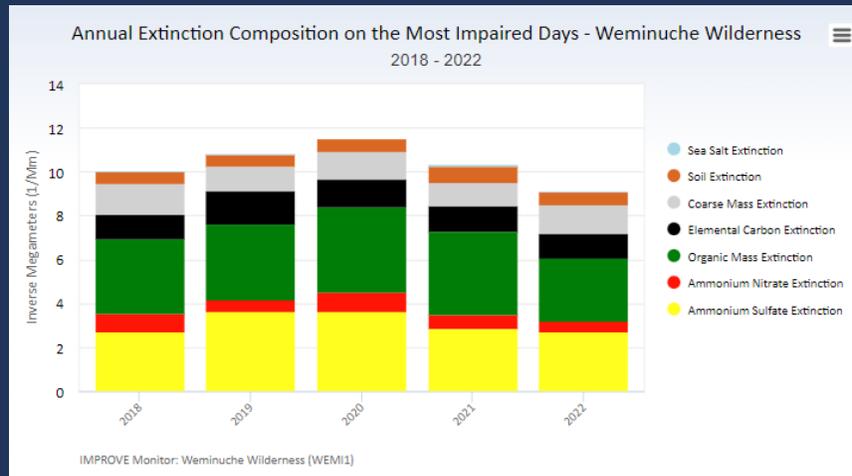
TSS Air Quality Analysis Product #7 URP Glidepath – M.I.D. or Clearest

TSS Air Quality Analysis Product #8 URP Glidepath – M.I.D. & Clearest



(i)(B) The current visibility conditions for the most impaired and clearest days

TSS Air Quality Analysis Product #2 Extinction Composition Summary by Group



(ii)(B) The difference between current visibility conditions for the most impaired and clearest days and baseline visibility conditions

g(3)

TSS Air Quality Analysis Product #11 State Deciview Trends all CIAs (MID & Clearest)

TSS Air Quality Analysis Product #12 State Deciview Trends per CIA (MID & Clearest)

Idaho - Class I Area Visibility Trends Summary Most Impaired Days (defined by EPA guidance ¹)						
Class I Area	Representative IMPROVE Monitor	IMPROVE 2000-2004	IMPROVE 2008-2012	IMPROVE 2014-2018	IMPROVE 2018-2022	Estimated Natural Conditions 2064
Craters of the Moon NM	CRMO1	11.9 dv	10.3 dv	8.5 dv	8.3 dv	5 dv
Sawtooth W	SAWT1	9.6 dv	9 dv	8.6 dv	8.6 dv	4.7 dv

1) U.S. EPA, December 2018. Technical Guidance on Tracking Visibility Progress for the Second Implementation Period of the Regional Haze Program. EPA-454/R-18-010

Idaho - Class I Area Visibility Trends Summary Clearest Days (defined by EPA guidance ¹)						
Class I Area	Representative IMPROVE Monitor	IMPROVE 2000-2004	IMPROVE 2008-2012	IMPROVE 2014-2018	IMPROVE 2018-2022	Estimated Natural Conditions 2064
Craters of the Moon NM	CRMO1	4.3 dv	2.9 dv	2.7 dv	2.8 dv	1.7 dv
Sawtooth W	SAWT1	4 dv	3.4 dv	2.6 dv	2.6 dv	1.5 dv

1) U.S. EPA, December 2018. Technical Guidance on Tracking Visibility Progress for the Second Implementation Period of the Regional Haze Program. EPA-454/R-18-010

Craters of the Moon NM Visibility Trends Summary Most Impaired Days (defined by EPA guidance ¹)					
Parameter	IMPROVE 2000-2004	IMPROVE 2008-2012	IMPROVE 2014-2018	IMPROVE 2018-2022	Estimated Natural Conditions 2064
Deciview	11.9	10.3	8.5	8.3	5
Total Light Extinction	34.8	29.3	24.1	23.5	16.7
Ammonium Sulfate	5.7	5	3.5	2.6	1
Ammonium Nitrate	14.2	10.1	5.8	6.5	2.5
Organic Mass from Carbon	2.8	2	2.4	2.1	1.6
Elemental Carbon	1.2	0.8	0.7	0.7	0.3
Coarse Mass	0.7	0.9	1.2	0.9	0.9
Fine Soil	0.2	0.4	0.3	0.3	0.3
Sea Salt	0.1	0.1	0.2	0.3	0.1
Rayleigh	10	10	10	10	10

1) U.S. EPA, December 2018. Technical Guidance on Tracking Visibility Progress for the Second Implementation Period of the Regional Haze Program. EPA-454/R-18-010

Craters of the Moon NM Visibility Trends Summary Clearest Days (defined by EPA guidance ¹)					
Parameter	IMPROVE 2000-2004	IMPROVE 2008-2012	IMPROVE 2014-2018	IMPROVE 2018-2022	Estimated Natural Conditions 2064
Deciview	4.3	2.9	2.7	2.8	1.7
Total Light Extinction	15.5	13.5	13.1	13.3	[2064 Natural Conditions]
Ammonium Sulfate	1.5	1.2	1	1	0.3
Ammonium Nitrate	1.2	0.7	0.7	0.7	0.4
Organic Mass from Carbon	1.3	0.7	0.7	0.7	0.5
Elemental Carbon	0.4	0.2	0.2	0.2	0.1
Coarse Mass	0.8	0.4	0.4	0.4	0.4
Fine Soil	0.2	0.1	0.1	0.1	0.1
Sea Salt	0	0	0.1	0.1	0

Sawtooth W Visibility Trends Summary Most Impaired Days (defined by EPA guidance ¹)					
Parameter	IMPROVE 2000-2004	IMPROVE 2008-2012	IMPROVE 2014-2018	IMPROVE 2018-2022	Estimated Natural Conditions 2064
Deciview	9.6	9	8.6	8.6	4.7
Total Light Extinction	26.4	25	24	24	16.2
Ammonium Sulfate	3.3	3.6	2.5	1.9	0.9
Ammonium Nitrate	0.5	0.5	0.4	0.4	0.5
Organic Mass from Carbon	8.9	7.6	7.9	8.1	2.8
Elemental Carbon	2.1	1.6	1.3	1.8	0.4
Coarse Mass	1.1	1.1	1.2	1.3	1.1
Fine Soil	0.5	0.6	0.5	0.5	0.5
Sea Salt	0	0	0	0	0
Rayleigh	10	10	10	10	10

1) U.S. EPA, December 2018. Technical Guidance on Tracking Visibility Progress for the Second Implementation Period of the Regional Haze Program. EPA-454/R-18-010

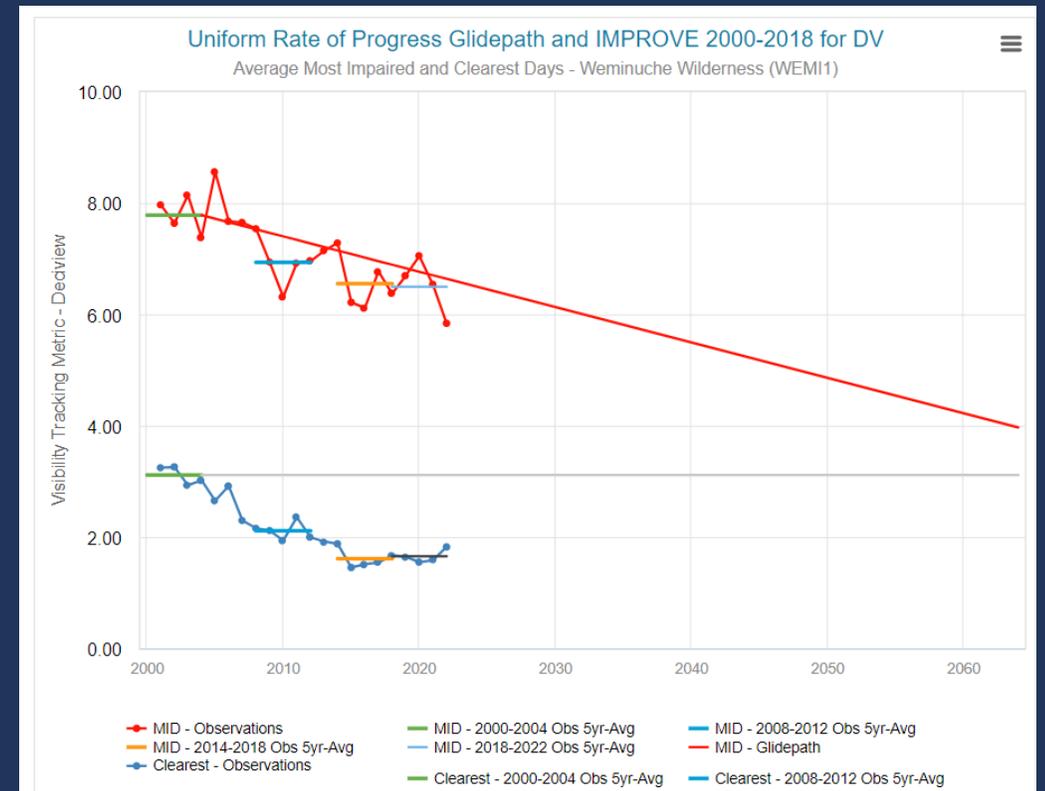
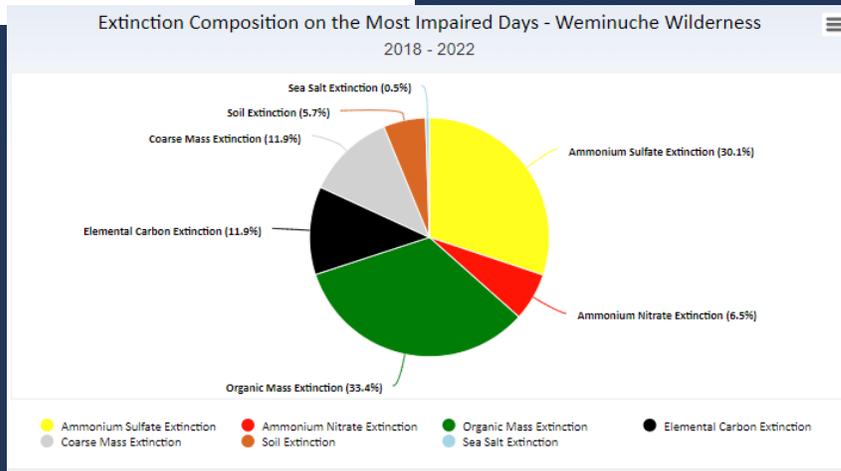
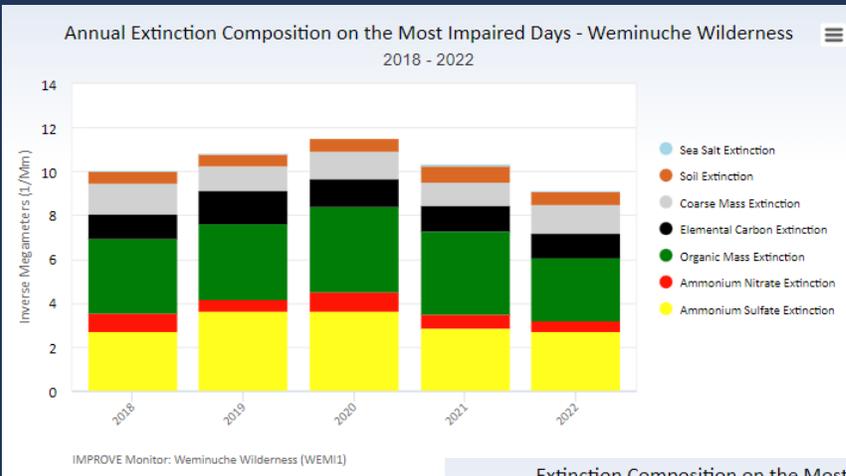
Sawtooth W Visibility Trends Summary Clearest Days (defined by EPA guidance ¹)					
Parameter	IMPROVE 2000-2004	IMPROVE 2008-2012	IMPROVE 2014-2018	IMPROVE 2018-2022	Estimated Natural Conditions 2064
Deciview	4	3.4	2.6	2.6	1.5
Total Light Extinction	15	14.1	13	13	[2064 Natural Conditions]
Ammonium Sulfate	1.2	1	0.7	0.7	0.3
Ammonium Nitrate	0.3	0.2	0.2	0.2	0.3
Organic Mass from Carbon	2.4	2.1	1.5	1.4	0.6
Elemental Carbon	0.6	0.4	0.2	0.4	0.1
Coarse Mass	0.3	0.3	0.2	0.2	0.2
Fine Soil	0.1	0.1	0.1	0.1	0.1
Sea Salt	0	0	0	0	0

(iii)(B) The change in visibility impairment for the most impaired and clearest days over the past 5 years.

g(3)

TSS Air Quality Analysis Product #2 Extinction Composition Summary by Group

TSS Air Quality Analysis Product #8 URP Glidepath – MIDs & Clearest



Emissions Progress

An analysis tracking the change over the past 5 years in emissions of pollutants contributing to visibility impairment from all sources and activities within the State. Emissions changes should be identified by type of source or activity. The analysis must be based on the most recent updated emissions inventory, with estimates projected forward as necessary and appropriate, to account for emissions changes during the applicable 5-year period.

- Suggested TSS Products and Other Data Sources:
 - Internal Emissions Databases
 - [TSS – Advanced Emissions Data Analysis - Express Tools](#)
 - 2020 National Emissions Inventory (NEI) Data – [Online 2020 NEI Data Retrieval Tool](#)

Advanced Emissions Data Analysis – Express Tools #1 & #2

<https://views.cira.colostate.edu/tssv3/Express/EmissionsToolsAdvanced.aspx>

Product #1: Pollutant Composition by State and Sector: Search by Scenario (e.g., 2020 NEI, 2017 NEI, etc.), Pollutant, State, and Emissions Sector

Product #2: Sector Composition by State and Pollutant: Search by Scenario, Emissions Sector, State, and Pollutant (e.g., “Parameter”)

Charts - Raw Emissions Sectors		Filters				URL	Actions
#	Product	Scenario:	Parameter:	State:	Sector:		
1	Pollutant Composition by State and Sector RAW	NEI 2020ha - Raw	NOX	Arizona	21 selected		<input type="button" value="Submit"/>
2	Sector Composition by State and Pollutant RAW	NEI 2020ha - Raw	ptegu	Arizona	9 selected		<input type="button" value="Submit"/>

2020 NEI Data Retrieval Tool

g(4)

- Filter the 2020 NEI to review county-level data and facility data
- County level data includes CAPs and HAPs for onroad mobile, nonroad mobile, and nonpoint, or area, data categories.
- Facility-level totals for CAPs and HAPs
- Can right-click and download data

STATE_NAME
North Dakota

Latest_Site_Name
Hess Tioga Gas Plant ...

☰ Selections

Location

📍 Select one or more

Pollutant

🔍 Pollutant Type-Pollutant

CAP
 GHG

To download data selection, right click on table and select Export data

Overview

County Level Data

Facility Data

2020 Facility-Level Data for Point Emissions

State	State-County	Pollutant	Emissions (Tons)	Pollut...	Site Name	EIS Fa...	Facility Type	Street Address	NAICS	Lat/Lon	EPA Regi...	FIPS
North Dakota	ND - Williams	Carbon Dioxide	245,893.28769	GHG	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
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North Dakota	ND - Williams	PM10 Primary (Filt + Cond)	16.45902	CAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
North Dakota	ND - Williams	Formaldehyde	2.52000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
North Dakota	ND - Williams	Acrolein	2.23000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
North Dakota	ND - Williams	Methanol	0.74000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
North Dakota	ND - Williams	Benzene	0.44000	HAP	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
North Dakota	ND - Williams	Nitrous Oxide	0.37566	GHG	Hess Tioga Gas Plant LL...	8013911	Gas Plant	10340 68th St NW	Natural Gas Extracti...	[-102.9141,48.3996]	8	38105
Totals			248,148.21155									

Assessment of Changes Impeding Visibility Progress

g(5)

An assessment of any significant changes in anthropogenic emissions within or outside the State that have occurred over the past 5 years that have limited or impeded progress in reducing pollutant emissions and improving visibility.

- Suggested TSS Products and Other Data Sources: Emissions Data Sources

Assessment of Current Strategy

An assessment of whether the current implementation plan elements and strategies are sufficient to enable the State, or other States with mandatory Federal Class I areas affected by emissions from the State, to meet all established reasonable progress goals.

- Suggested TSS Products and Other Data Sources: None

Review of Visibility Monitoring Strategy

A review of the State's visibility monitoring strategy and any modifications to the strategy as necessary.

- This requirement applies to the first implementation progress report only.

Review of Smoke Management Program

For a state with a long-term strategy that includes a smoke management program for prescribed fires on wildland that conducts a periodic program assessment, a summary of the most recent periodic assessment of the smoke management program, including conclusions, if any, that were reached in the assessment as to whether the program is meeting its goals regarding improving ecosystem health and reducing the damaging effects of catastrophic wildfires

- Suggested TSS Products and Other Data Sources: None

TSS Product to Progress Report Element Crosswalk

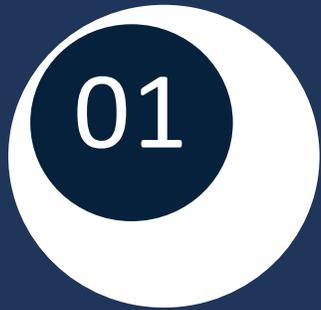
Citation	Requirement/ Template Section*	TSS Product
g(1)	Status of Control Strategies in the Regional Haze SIP	None
g(2)	Emissions Reductions from Regional Haze SIP Strategies	Advanced Emissions Data Analysis – Express Tools #1 & #2, EPA’s 2020 NEI Online Data Retrieval Tool
g(3)	Visibility Progress	Air Quality Analysis Products #2, #7, #8, #11, #12
g(4)	Emissions Progress	Advanced Emissions Data Analysis – Express Tools #1 & #2, EPA’s 2020 NEI Online Data Retrieval Tool
g(5)	Assessment of Changes Impeding Visibility Progress	Emissions Data Sources used in g(2), g(4), and others that help characterize emissions issues
g(6)	Assessment of Current Strategy	None
g(7)	Review of Visibility Monitoring Strategy	None
g(8)	Review of Smoke Management Program	None

*UT Template based on MANE-VU’s Template

Additional Progress Report Requirements

- Determination of the adequacy of the existing implementation plan (*40 CFR 51.308(h)(1)–(4)*)
- Coordination with your Federal Land Managers and provide an opportunity for consultation. *40 CFR 51.308(i)(1)–(4)*
 - *“The opportunity for consultation... on a progress report must be provided no less than 60 days prior to said public hearing or public comment opportunity”*

Timeline



Kickoff R2 PR
Summer 2023



Complete R2 PR Data Needs
Q1 2024



R2 RP Public Comment
July 1, 2024



Respond to Comments
August 2024



R2 PR due
Jan. 31, 2025

Questions? Discussion?

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