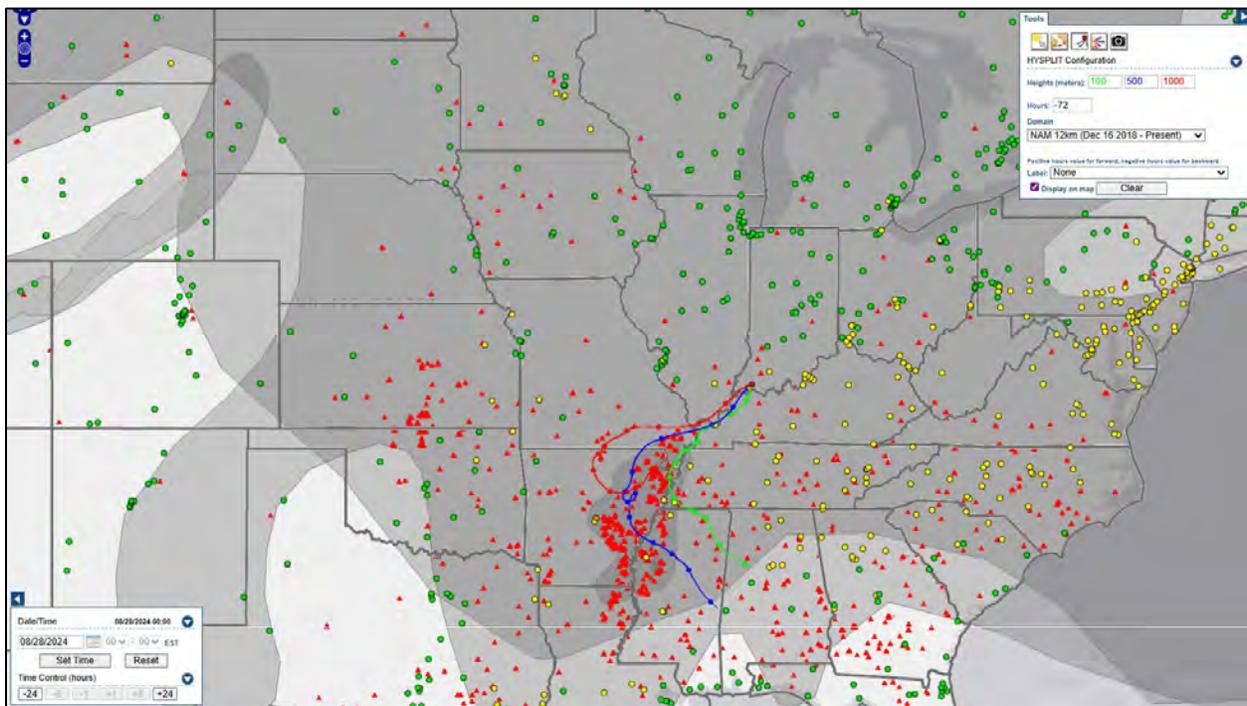


August 28, 2024

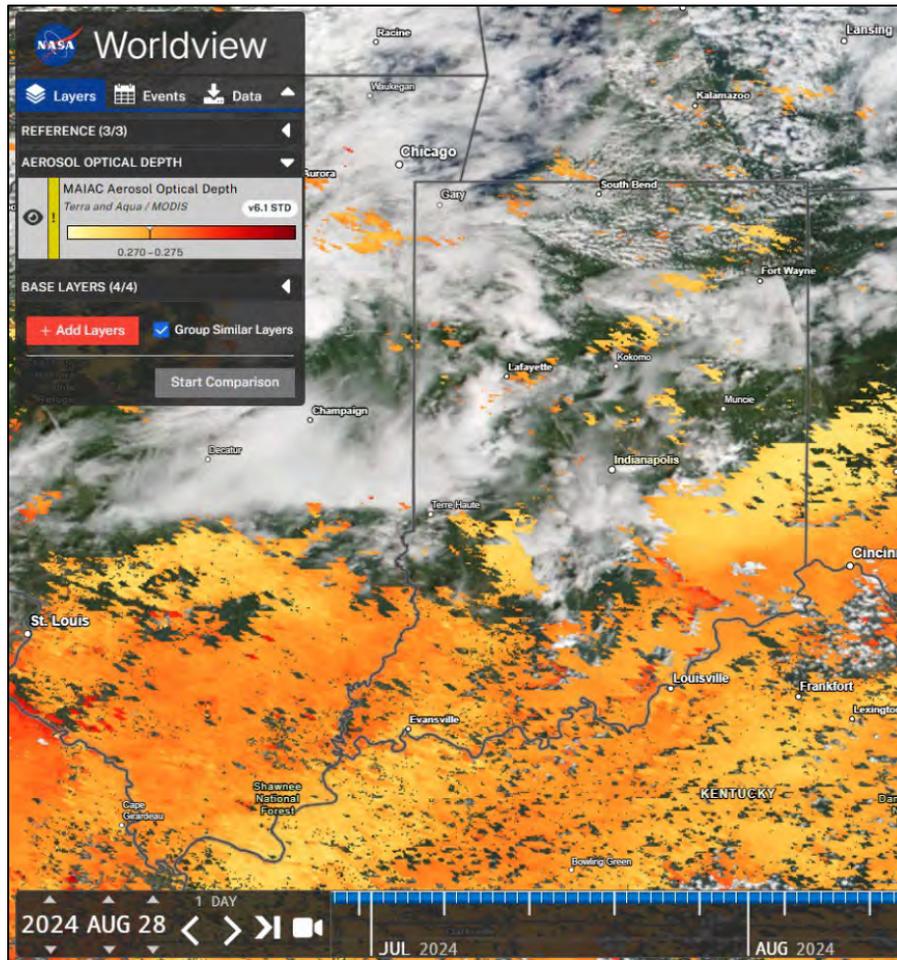
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Dale	181470009	8/28/2024	15.1	13.9
Evansville - U of E	181630016	8/28/2024	15.6	15.5
Evansville - Buena Vista	181630021	8/28/2024	17.8	15.1

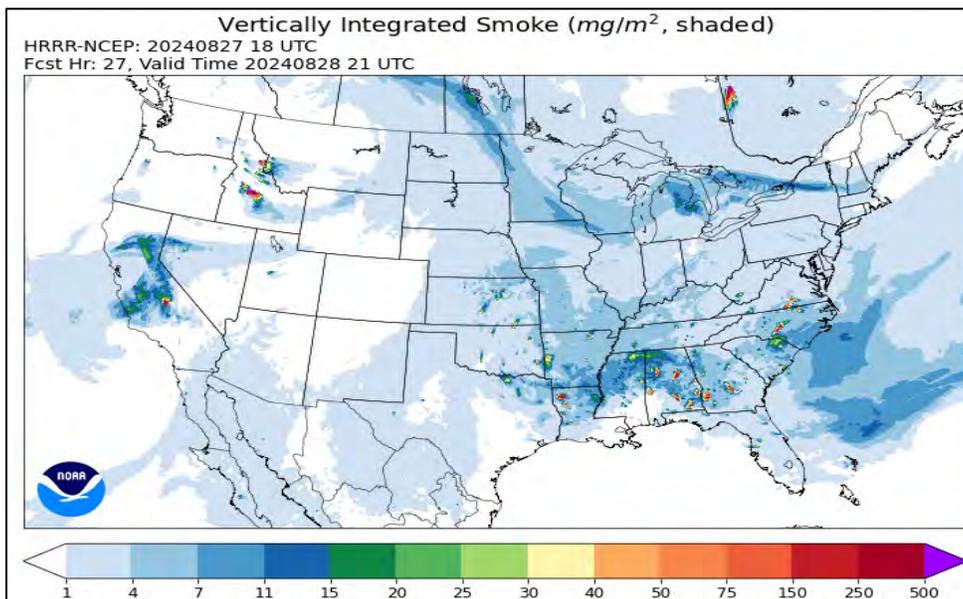
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 28, 2024



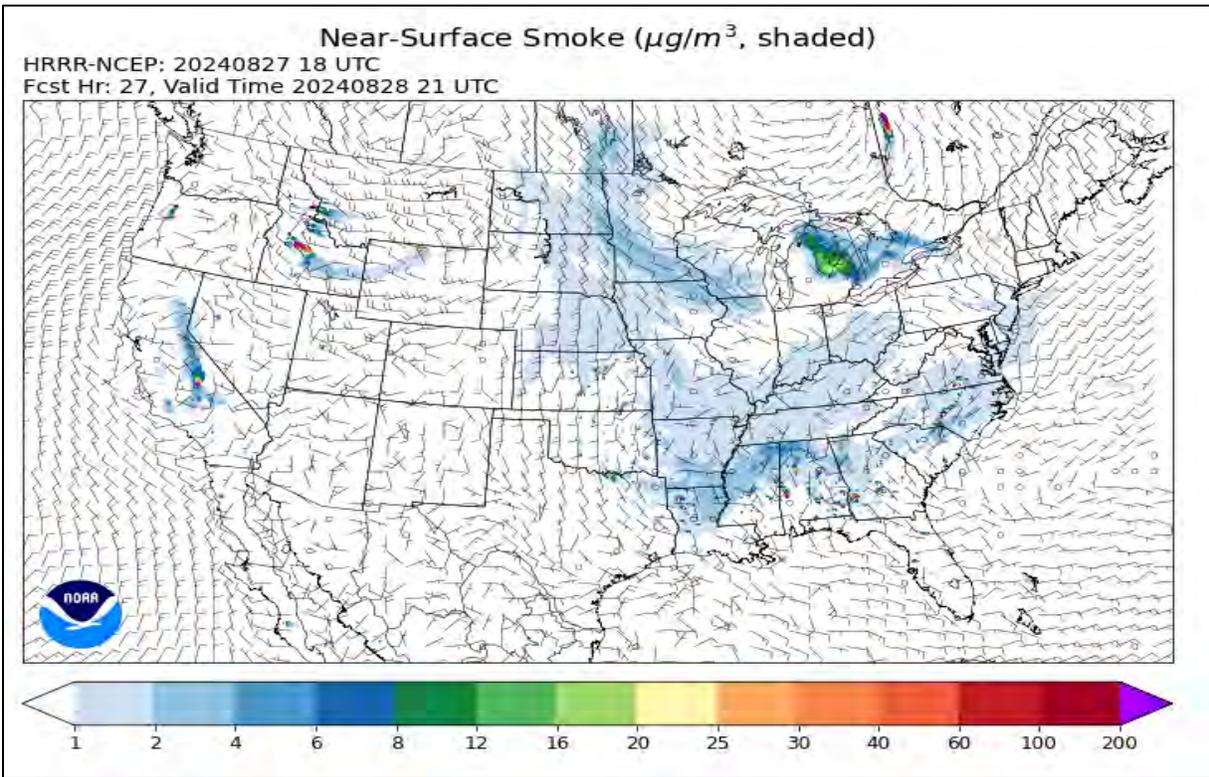
Satellite Imagery with MAIAC AOD – August 28, 2024



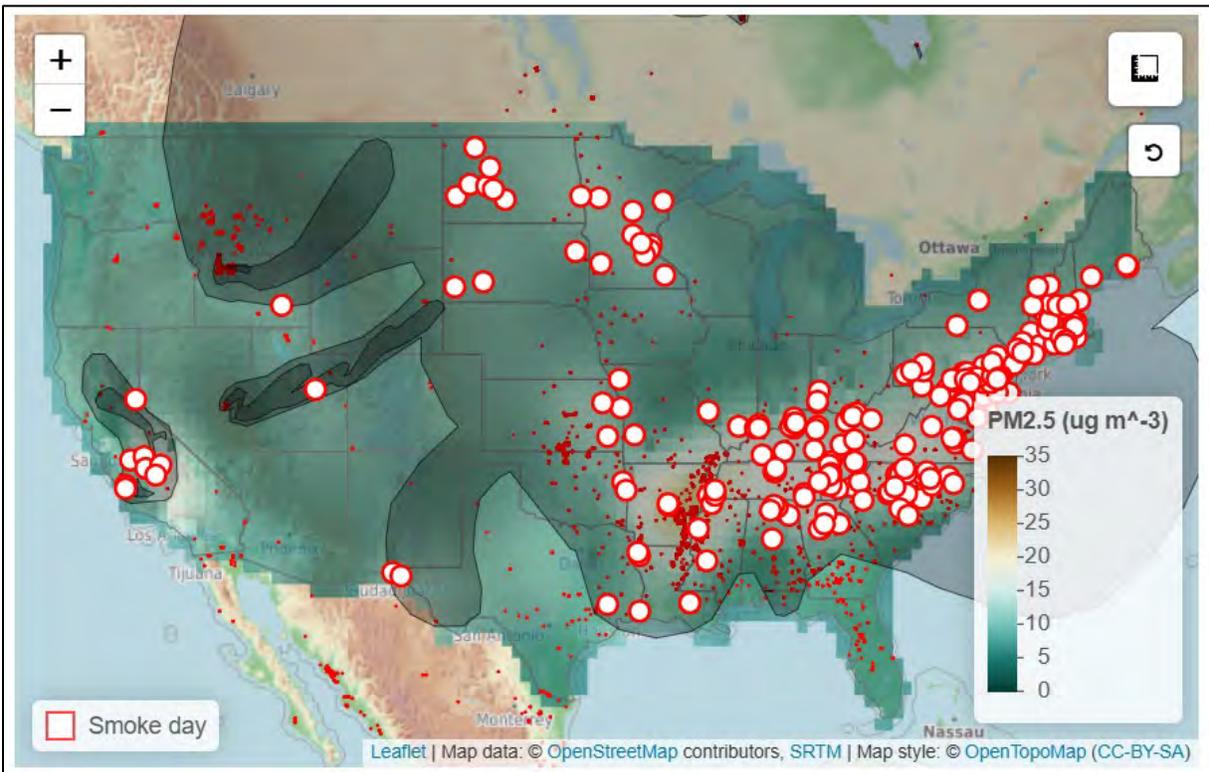
HRRR Smoke - Vertically Integrated Smoke – August 28, 2024



HRRR Smoke - Near Surface Smoke – August 28, 2024



GAM PMO3 Smoke Output – August 28, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**Wednesday, August 28, 2024**

TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1410Z August 28, 2024

SMOKE:

Canada/United States/Atlantic Ocean...

Due to ongoing wildfires in Northeast British Columbia, a significant concentration of light to heavy smoke has been observed gathering and dispersing along the Peace River Valley area and adjacent rivers valleys. From there, it was observed emptying out into western Alberta, where it then mixed with a separate smoke plume emanating from wildfires originating from the Northwest Territories. From there, the remnant smoke was observed drifting eastwards across the Canadian provinces and Northern US states before blowing out into the Atlantic Ocean.

Northwestern CONUS...

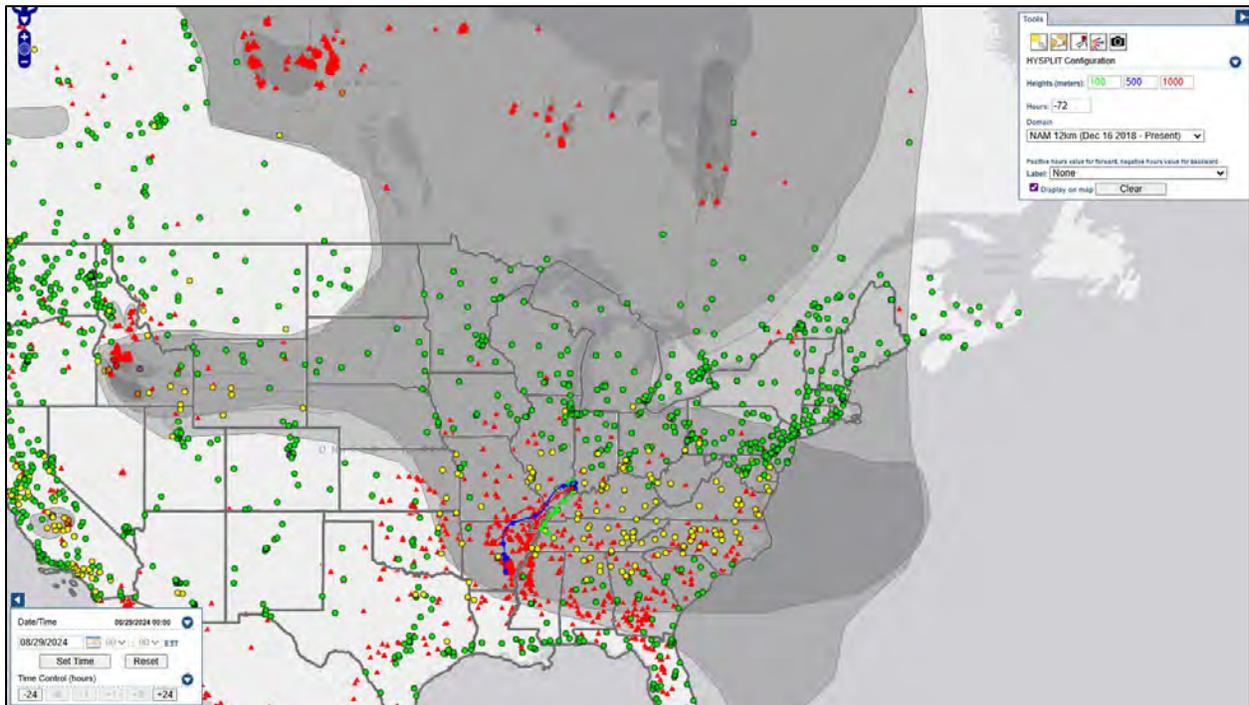
As observed yesterday afternoon, continual wildfire activity mainly in central Idaho was observed producing thick smoke. The smoke from this activity was being drawn east-northeastward across Montana and perhaps just into far southwestern Alberta and far southern Saskatchewan. This smoke is also contributing to the remnant smoke across the North American continent described above.

August 29, 2024

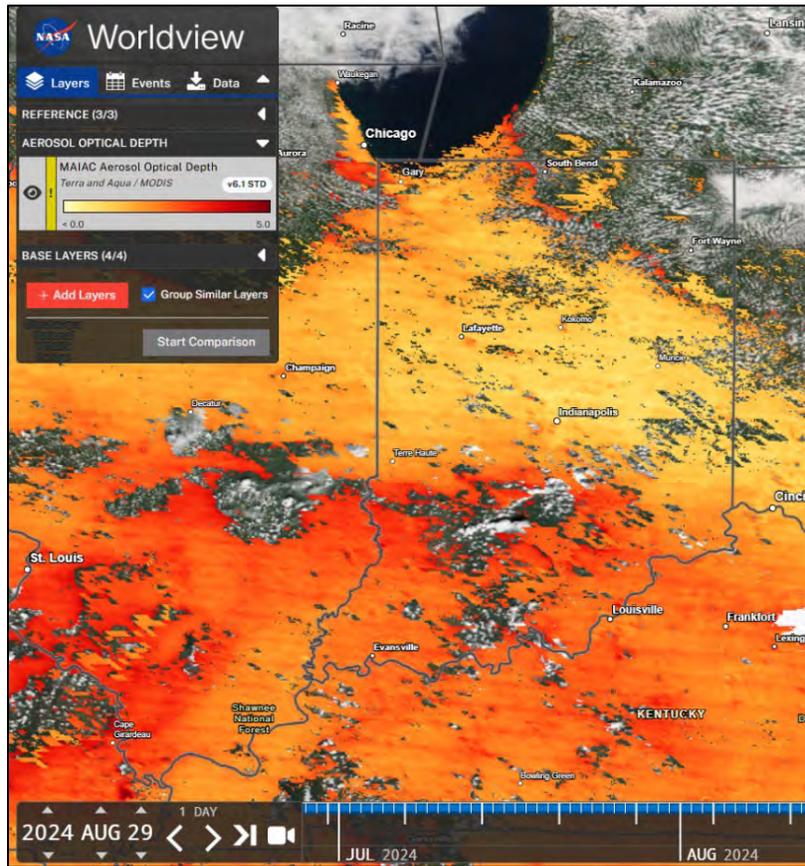
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Jasper - Post Office	180372001	8/29/2024	16.4	15.7
Evansville - Buena Vista	181630021	8/29/2024	18.9	15.1

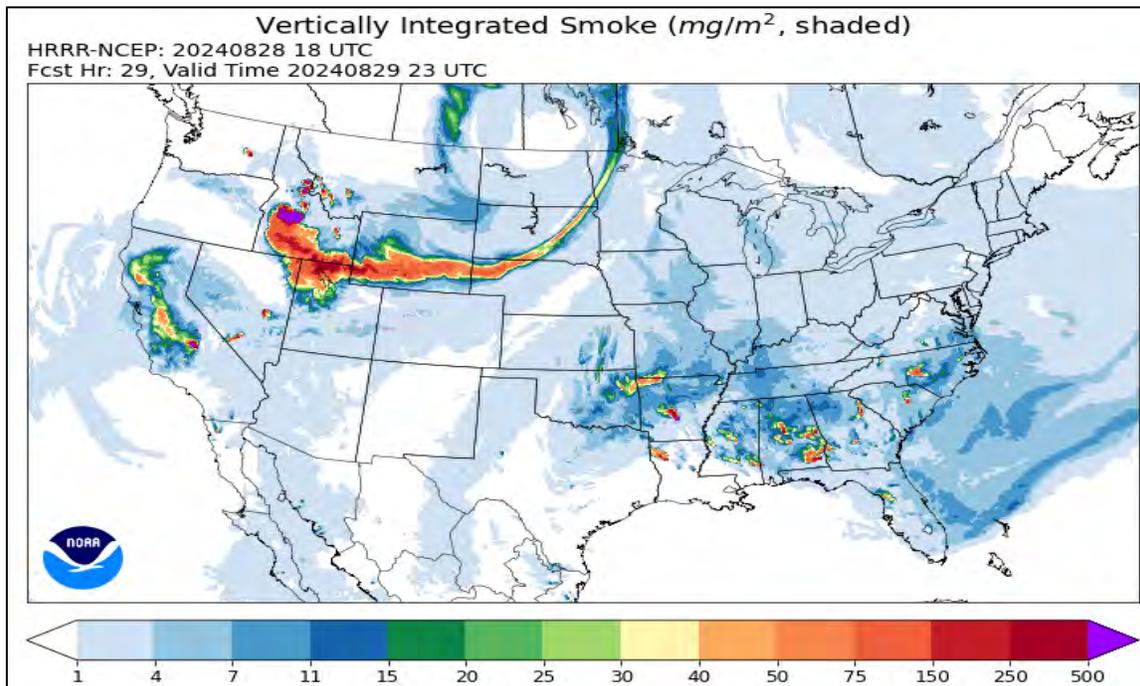
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 29, 2024



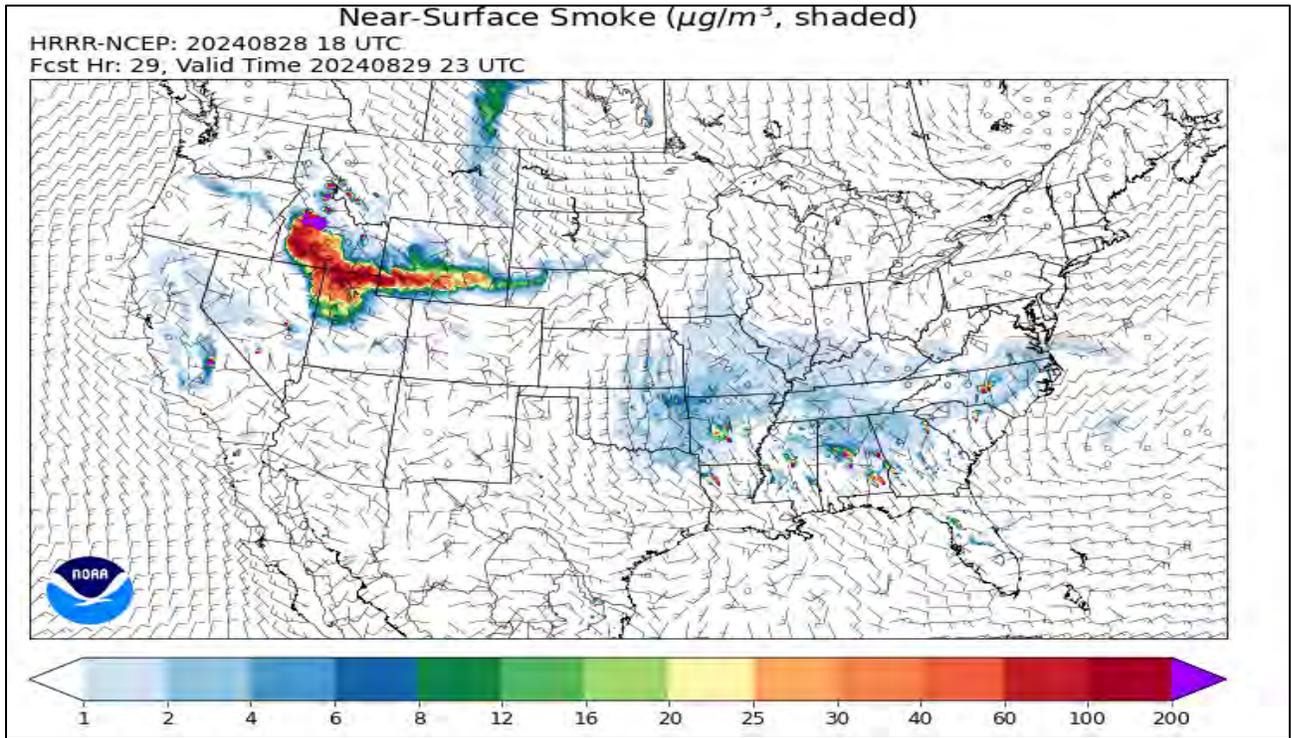
Satellite Imagery with MAIAC AOD – August 29, 2024



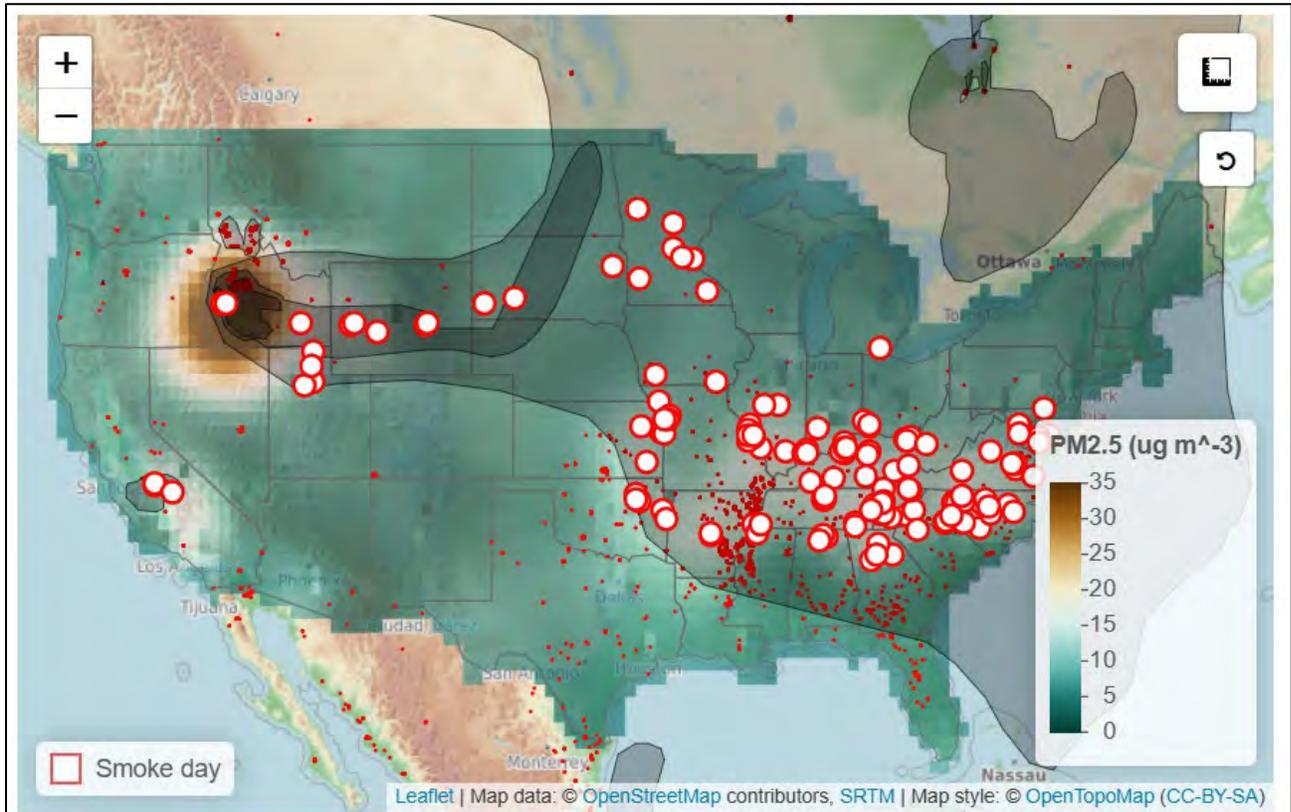
HRRR Smoke - Vertically Integrated Smoke – August 29, 2024



HRRR Smoke - Near Surface Smoke – August 29, 2024



GAM PMO3 Smoke Output – August 29, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**Thursday, August 29, 2024**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1600Z August 29, 2024

SMOKE:

Canada/United States/Atlantic Ocean...

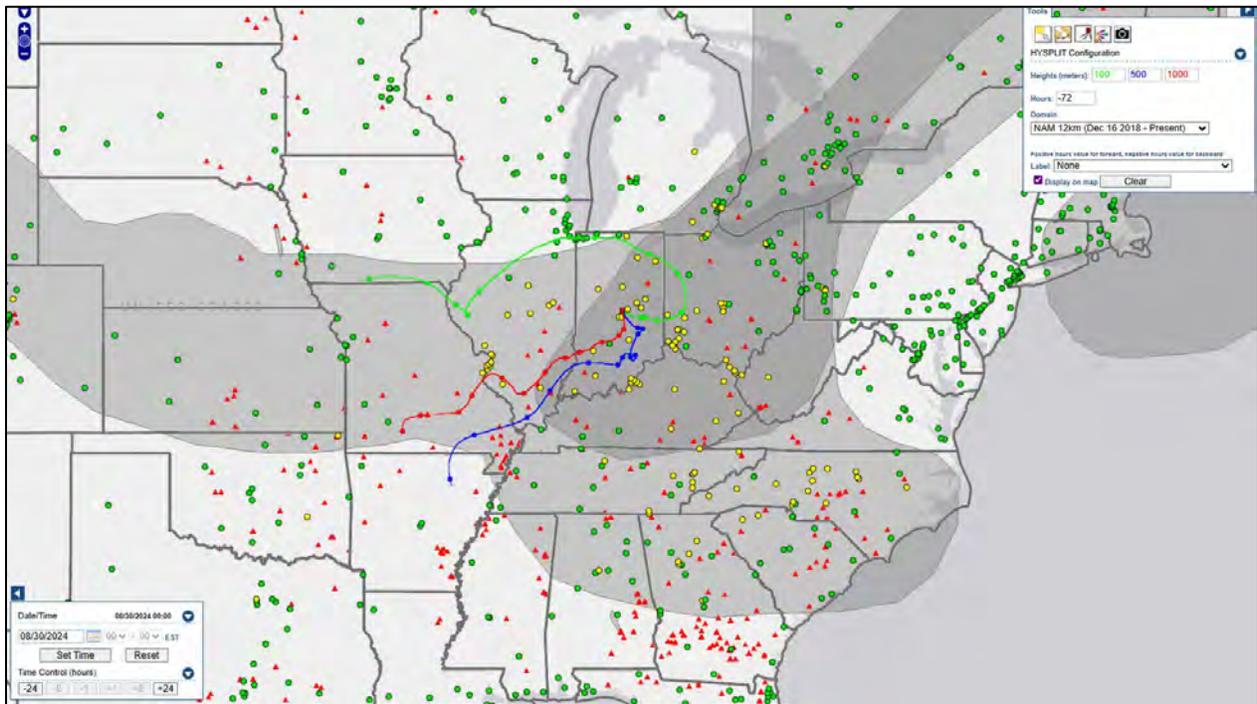
A large area of smoke attributed to a combination of the large amount of wildfire activity across western and central Canada, and the Northwest region of the United States, continued to impact areas of Canada, the United States, and portions of the Atlantic Ocean. Large wildfires concentrated in Idaho were observed producing moderate to potentially thick density smoke that was observed extending eastward and contributing to overall large area of smoke observed over the U.S.

August 30, 2024

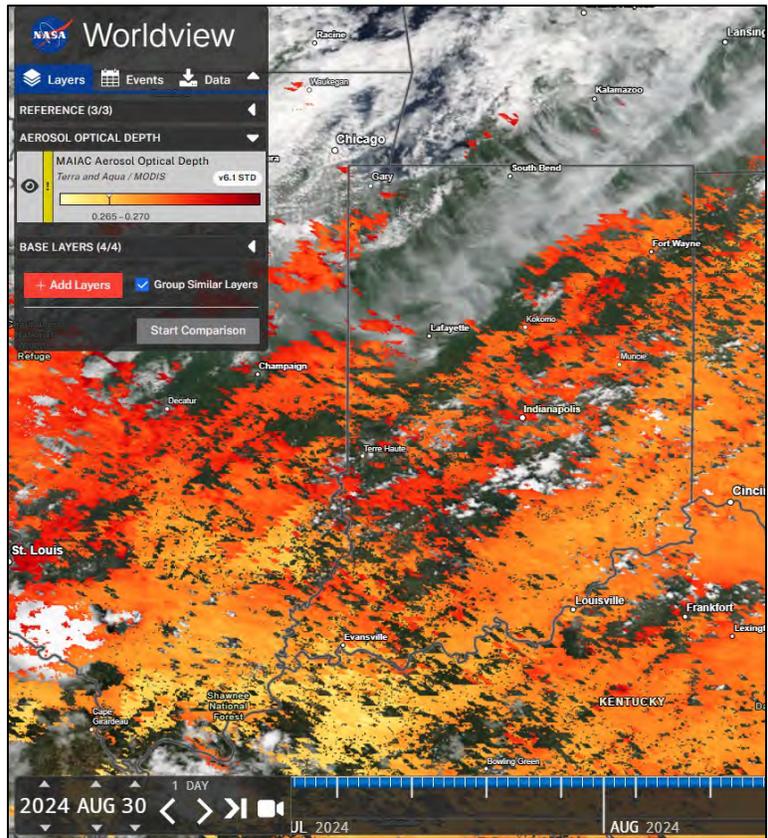
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	8/30/2024	14.0	13.2
Plummer	180550001	8/30/2024	14.7	14.7
Fishers	180570007	8/30/2024	14.6	13.8

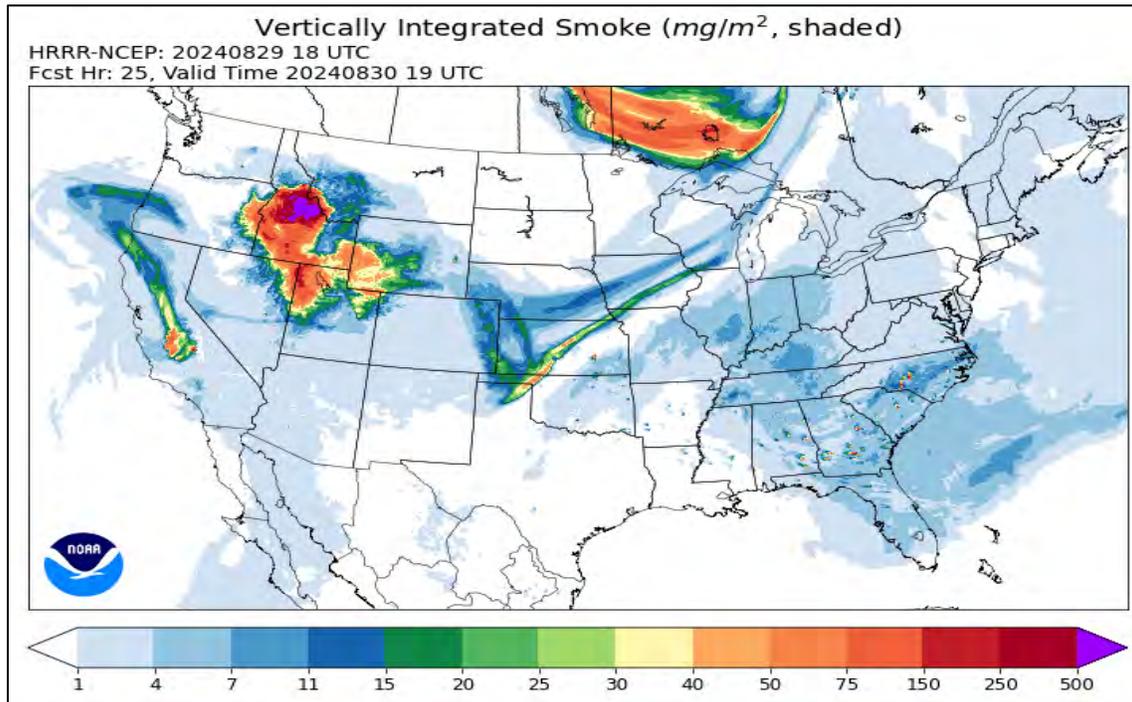
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 30, 2024



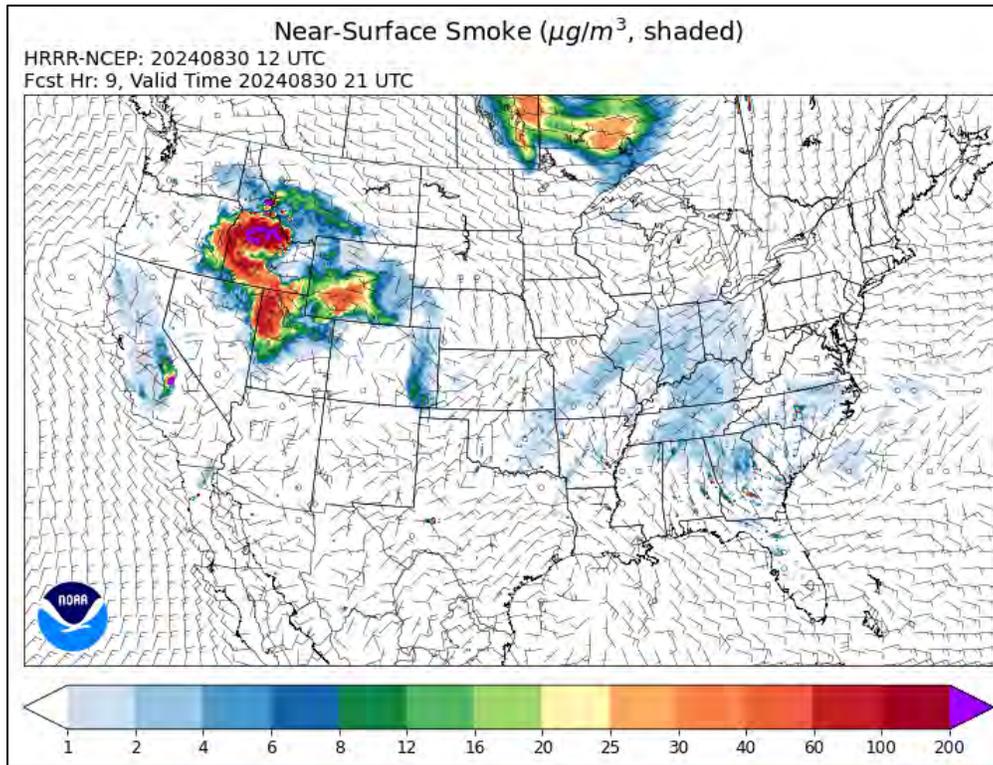
Satellite Imagery with MAIAC AOD – August 30, 2024



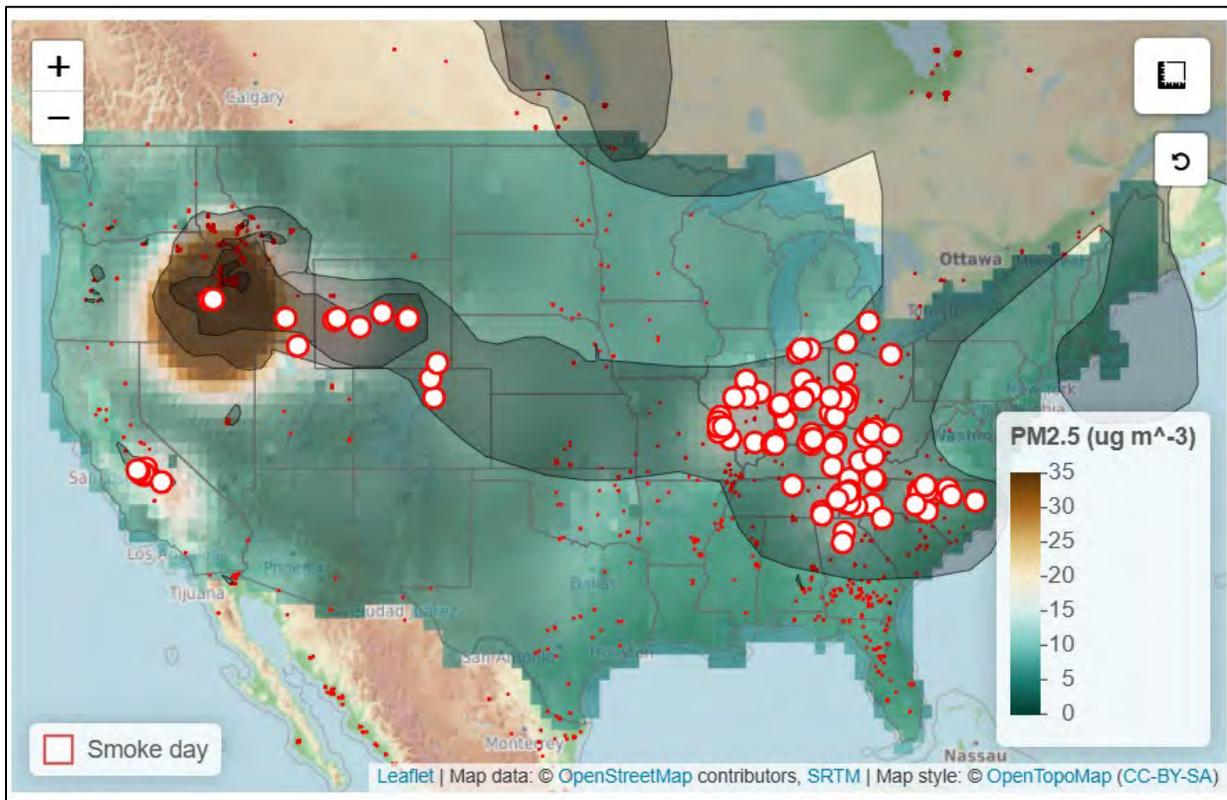
HRRR Smoke - Vertically Integrated Smoke – August 30, 2024



HRRR Smoke - Near Surface Smoke – August 30, 2024



GAM PMO3 Smoke Output – August 30, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**Friday, August 30, 2024**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0000Z August 31, 2024

SMOKE:

Canada/United States/Atlantic Ocean...

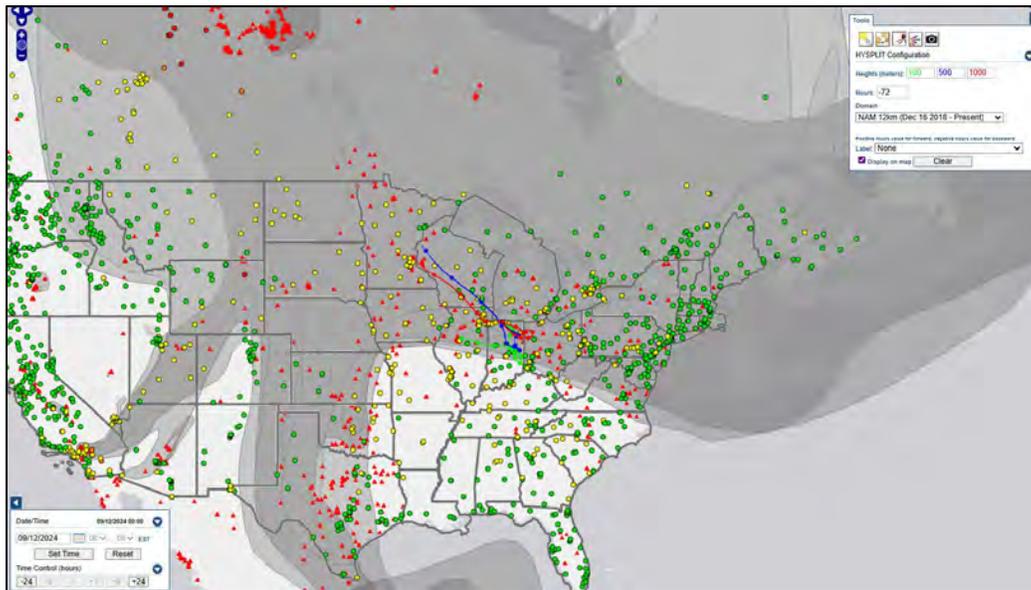
Mixed density smoke attributed to wildfire activity across northwestern and central Canada, was observed blowing eastwards across Canada into the Atlantic Ocean, as well as and drifting southwards into the United States. Remnant smoke originating from wildfires in Idaho was still seen across parts of southeastern U.S. Heavy cloud cover over in Canada and northern U.S precluded further smoke analysis and thus localized moderate to thick density smoke may be still present underneath the cloud cover.

September 12, 2024

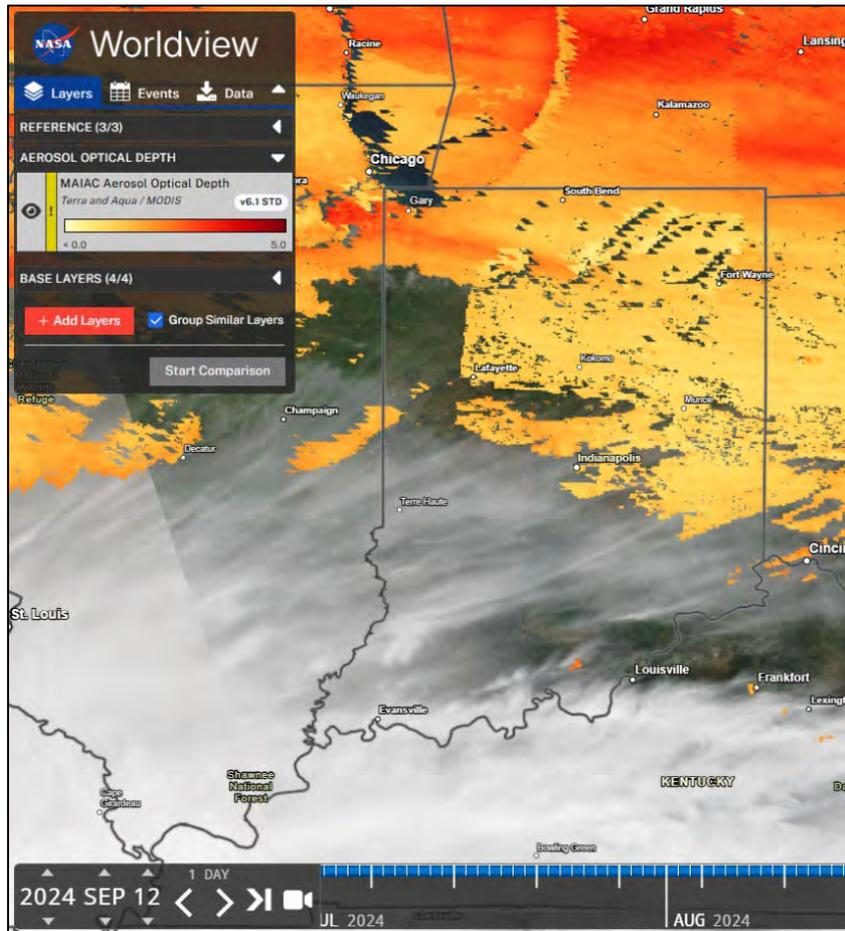
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
South Bend - Shields Dr.	181410015	9/12/2024	20.0	16.9

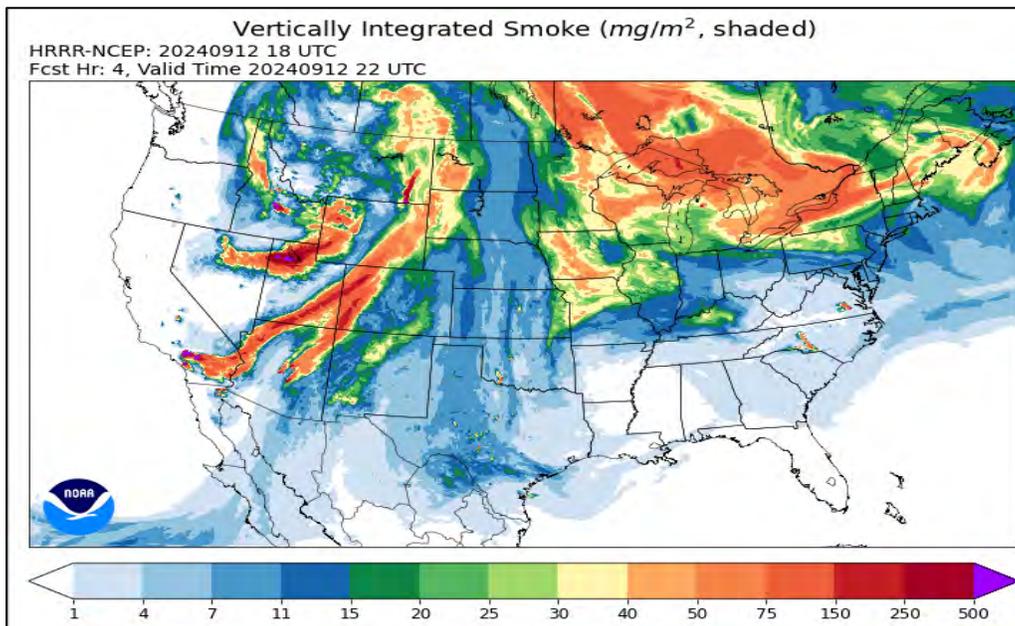
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – September 12, 2024



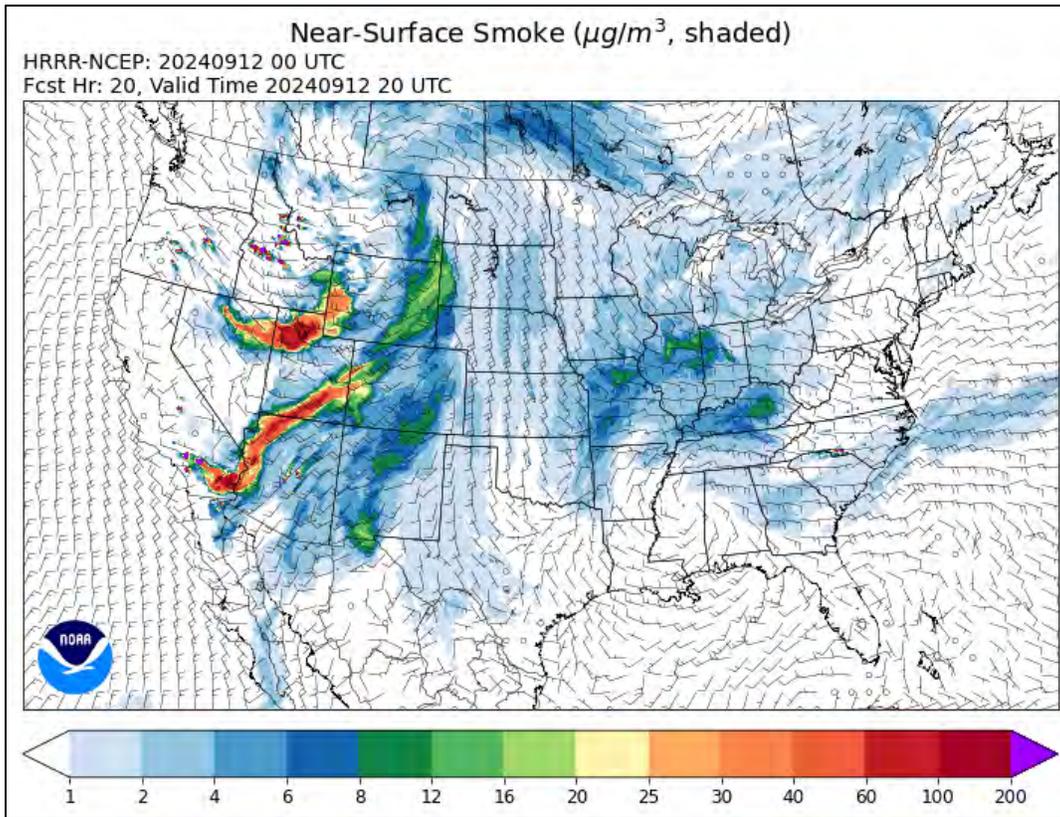
Satellite Imagery with MAIAC AOD – September 12, 2024



HRRR Smoke - Vertically Integrated Smoke – September 12, 2024



HRRR Smoke - Near Surface Smoke – September 12, 2024



GAM PMO3 Smoke Output – September 12, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**Thursday, September 12, 2024**DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1450Z September 12, 2024

SMOKE:

Canada/United States/Atlantic Ocean...

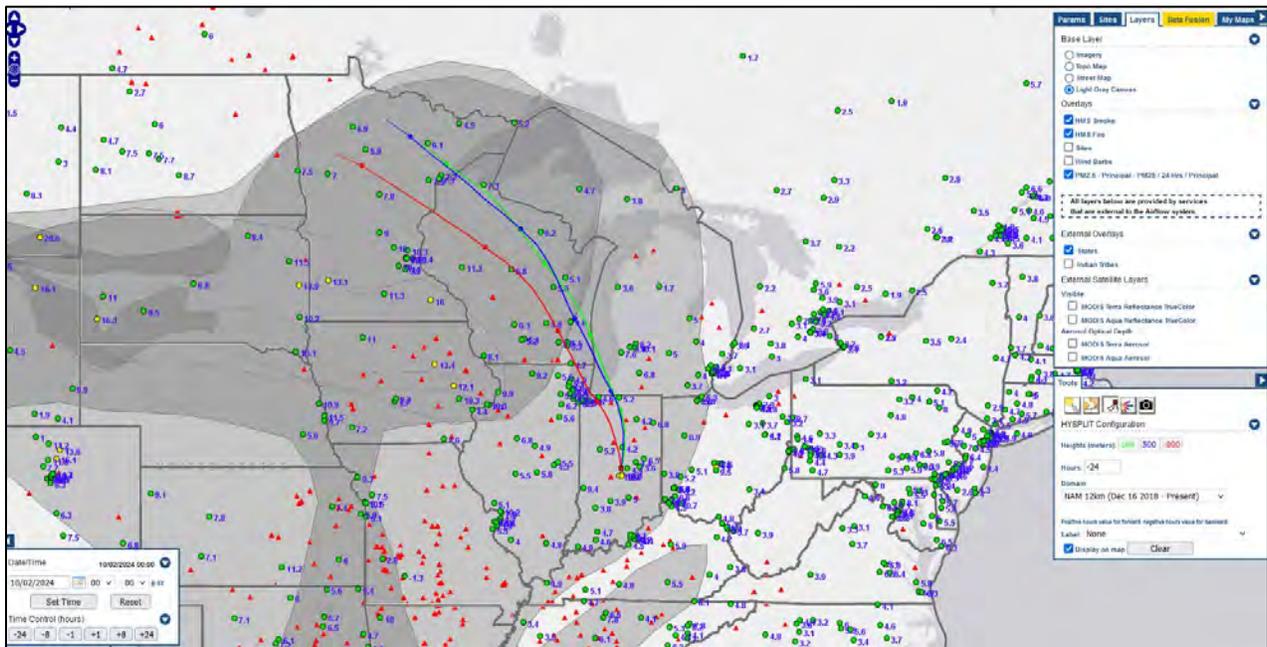
A large area of light to moderate density smoke attributed to a combination of wildfire activity in both Central Oregon and Idaho, seasonal burns, Canadian wildfires, and Mexican petroleum industries, was observed moving across the North American continent. The band of observable smoke began in the Southern region of Canada's Northwestern Territories and stretched all the way down towards the US Midwest where it intermixed with smoke coming from the ongoing wildfires east of Los Angeles, California. From Central America, Light to Moderate density smoke emanating from active fires along the Gulf coast was observed blowing North and merging with the previously mentioned US smoke mass. Together, the combine mass of smoke was seen moving east and around the perimeter of Hurricane Francine, before blowing out into the Atlantic Ocean.

October 2, 2024

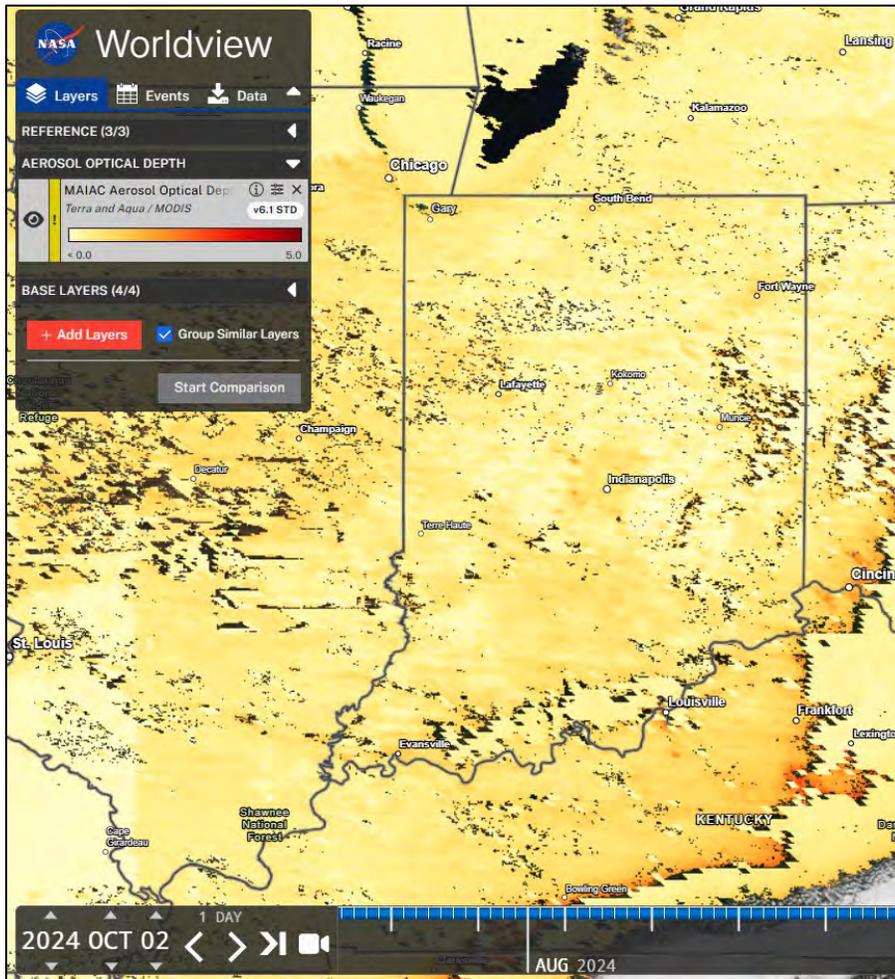
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Indianapolis - Washington Park	180970078	10/2/2024	18.3	17.8

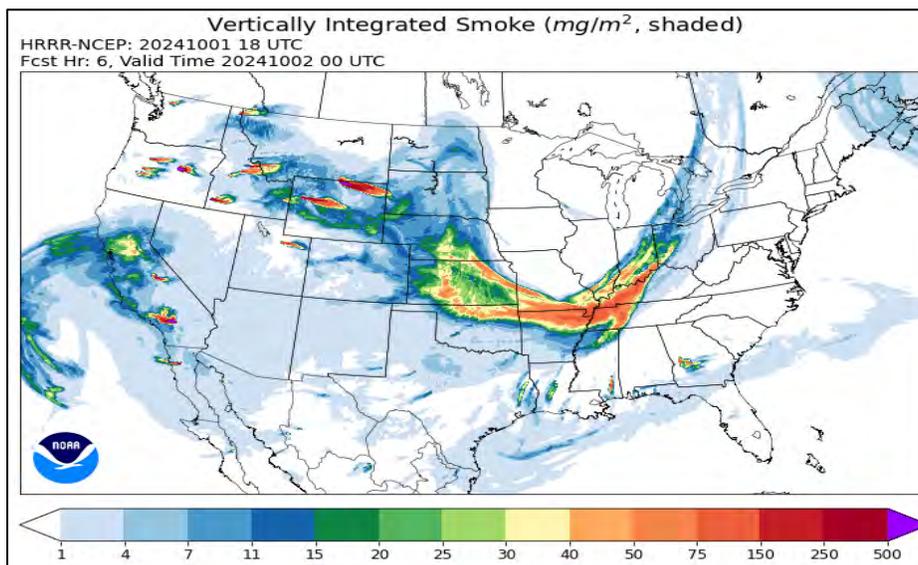
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 2, 2024



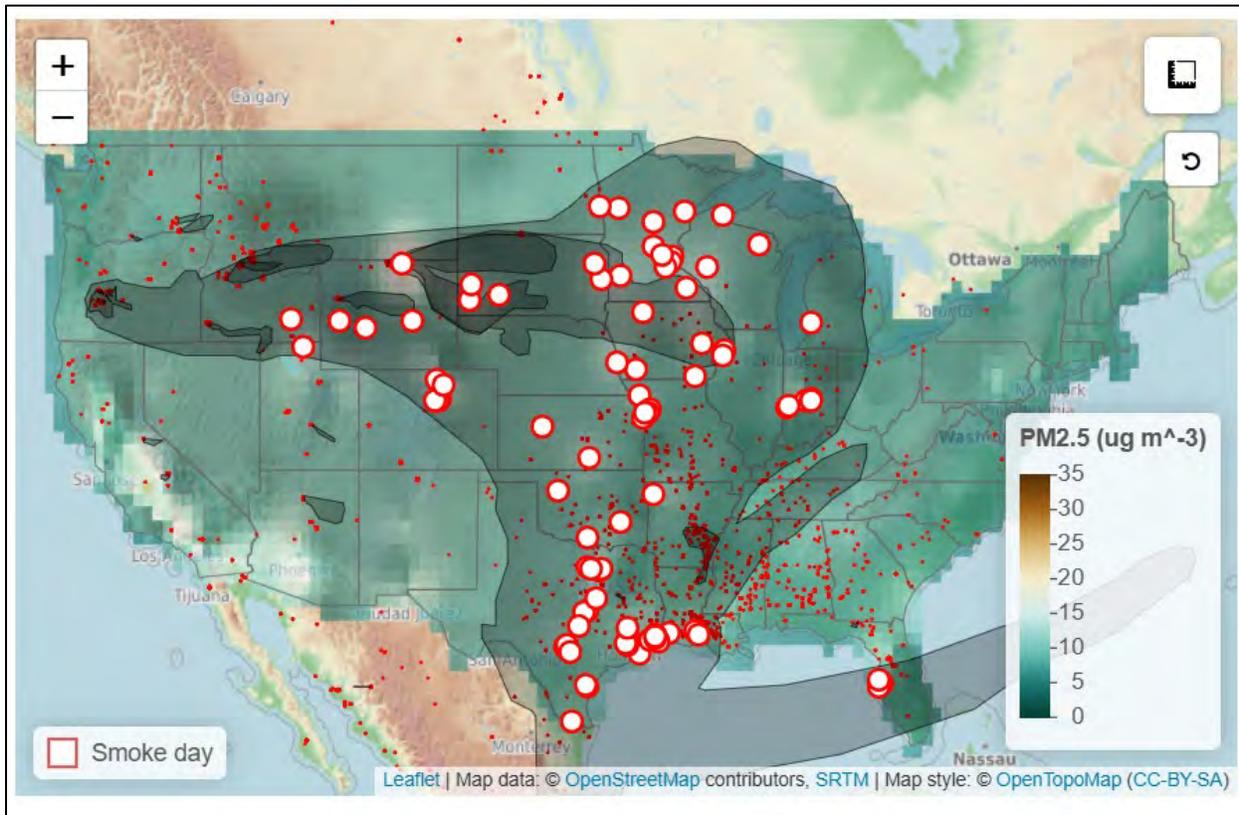
Satellite Imagery with MAIAC AOD – October 2, 2024



HRRR Smoke - Vertically Integrated Smoke – October 2, 2024



GAM PMO3 Smoke Output – October 2, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Wednesday, October 2, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1540Z October 2, 2024

SMOKE:

Northwest U.S./Central and Southeastern United States...

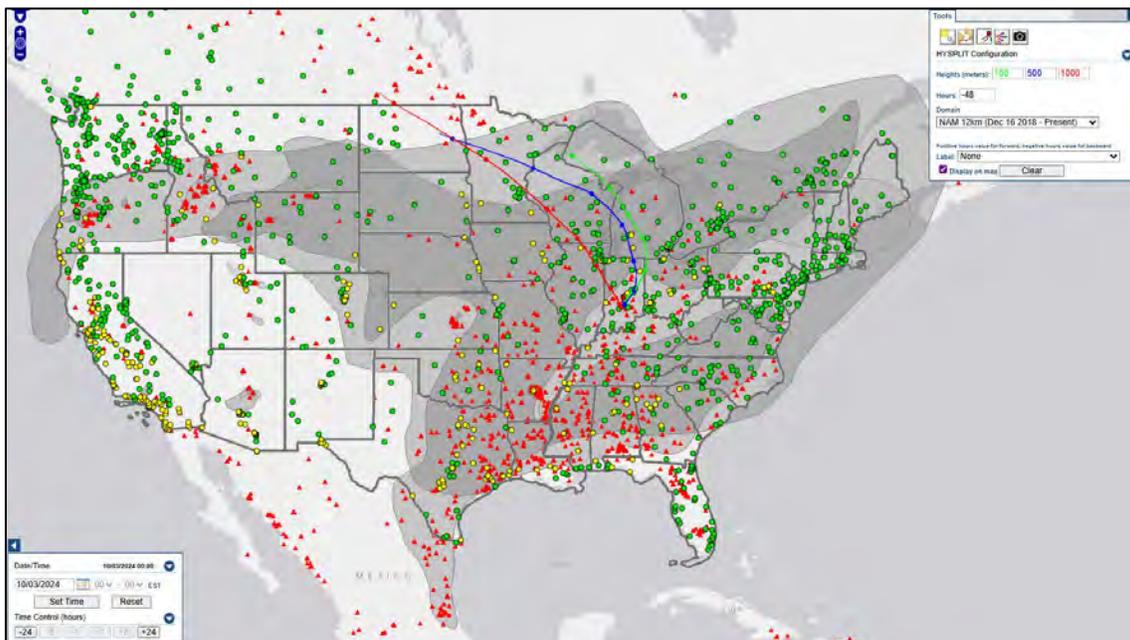
Originating from ongoing wildfires in Western Oregon, a mass of light to moderate density smoke was observed blowing east through the Rocky Mountains, into neighboring Idaho. After gaining additional smoke from localized wildfires in Idaho, the smoke mass continued eastwards until reaching the ongoing "Elk" wildfire in Northern Wyoming. The ongoing wildfire injected the smoke mass with a significant amount of moderate to heavy smoke, which gradually dispersed out in a light to moderate haze across the Northern Midwest.

October 3, 2024

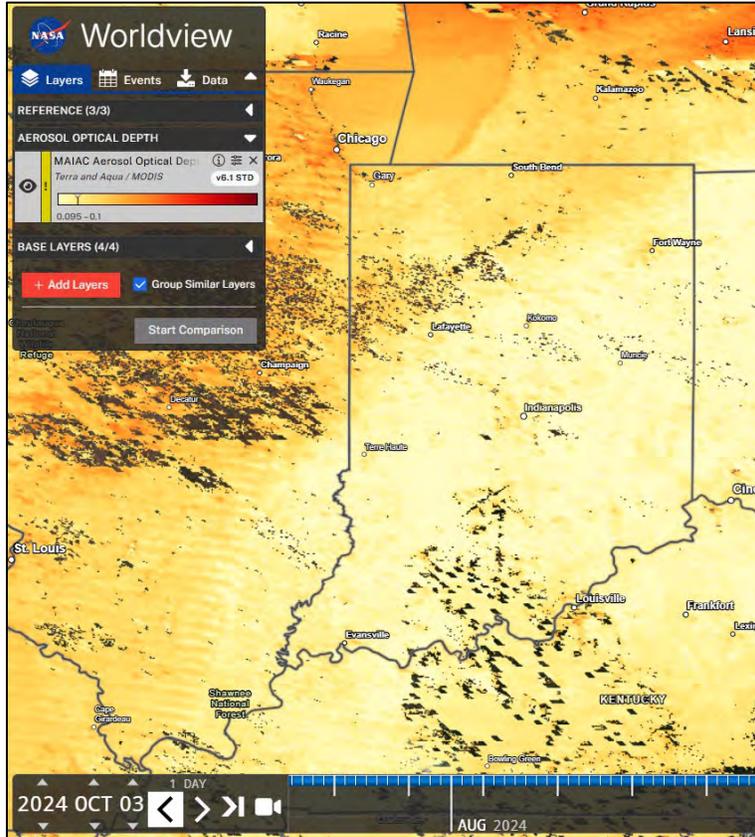
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Aaverage (µg/m ³)	Tier 2 Threshold (µg/m ³)
Indianapolis - Washington Park	180970078	10/3/2024	18.7	17.8
Indianapolis - W. 18th St.	180970081	10/3/2024	24.7	20.9

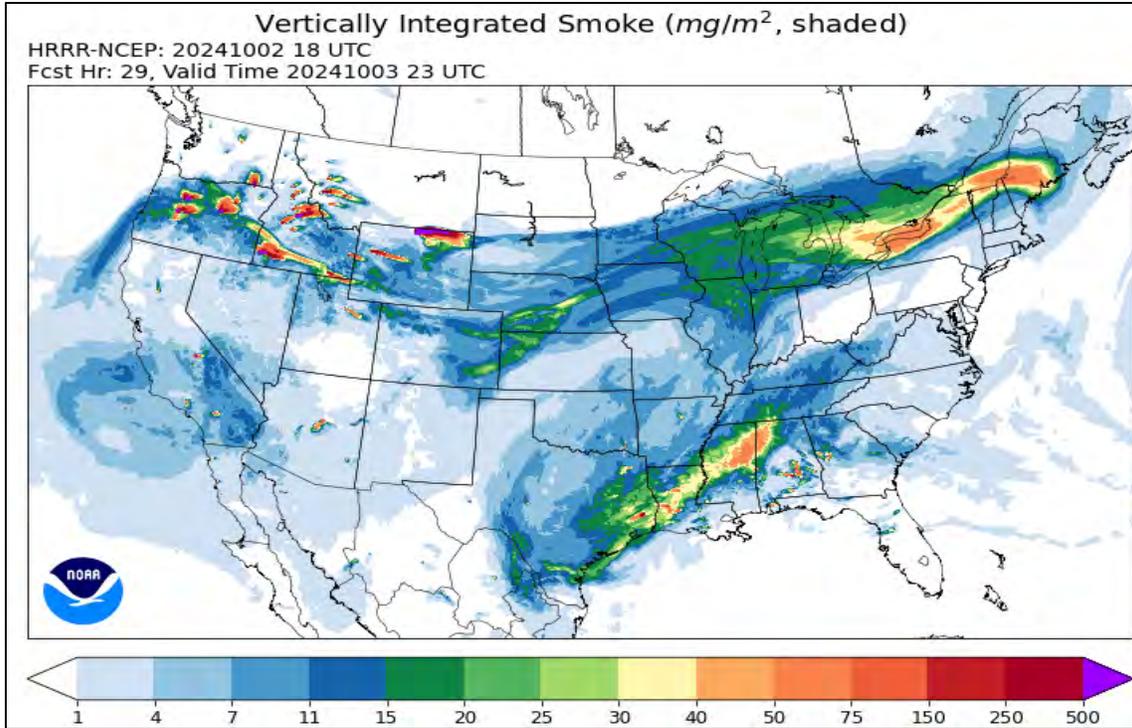
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories - October 3, 2024



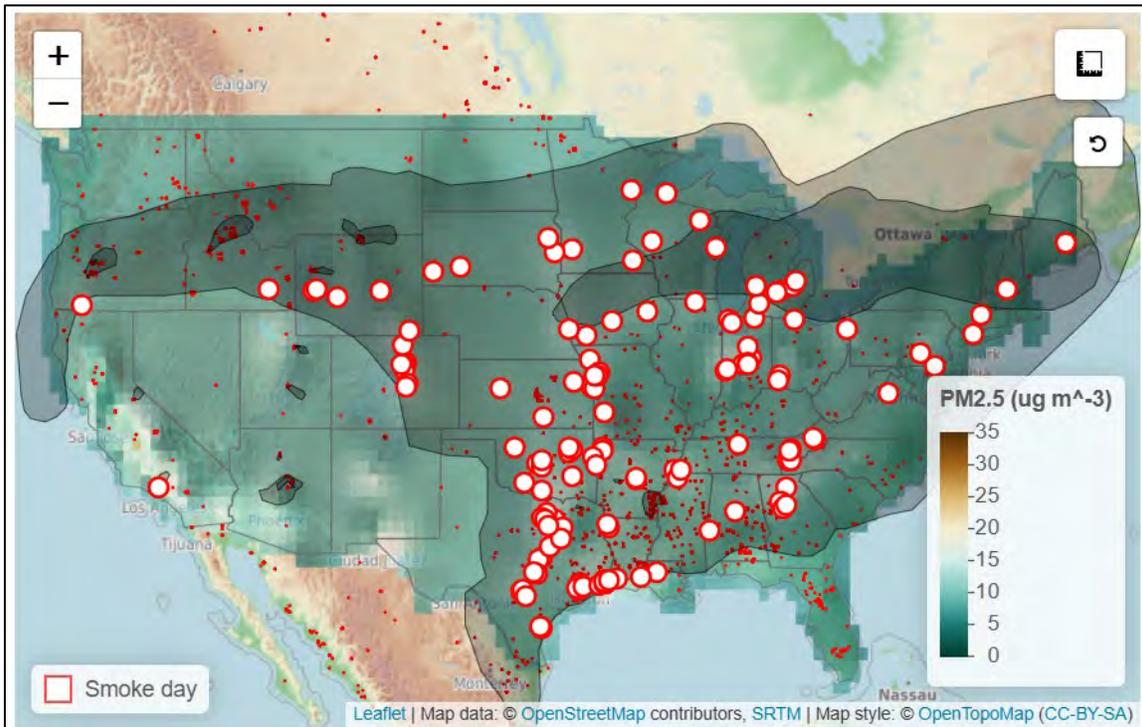
Satellite Imagery with MAIAC AOD – October 3, 2024



HRRR Smoke - Vertically Integrated Smoke – October 3, 2024



GAM PMO3 Smoke Output – October 3, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Thursday, October 3, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1600Z October 3, 2024

SMOKE:

Midwest/Northeastern and Southeastern United States...

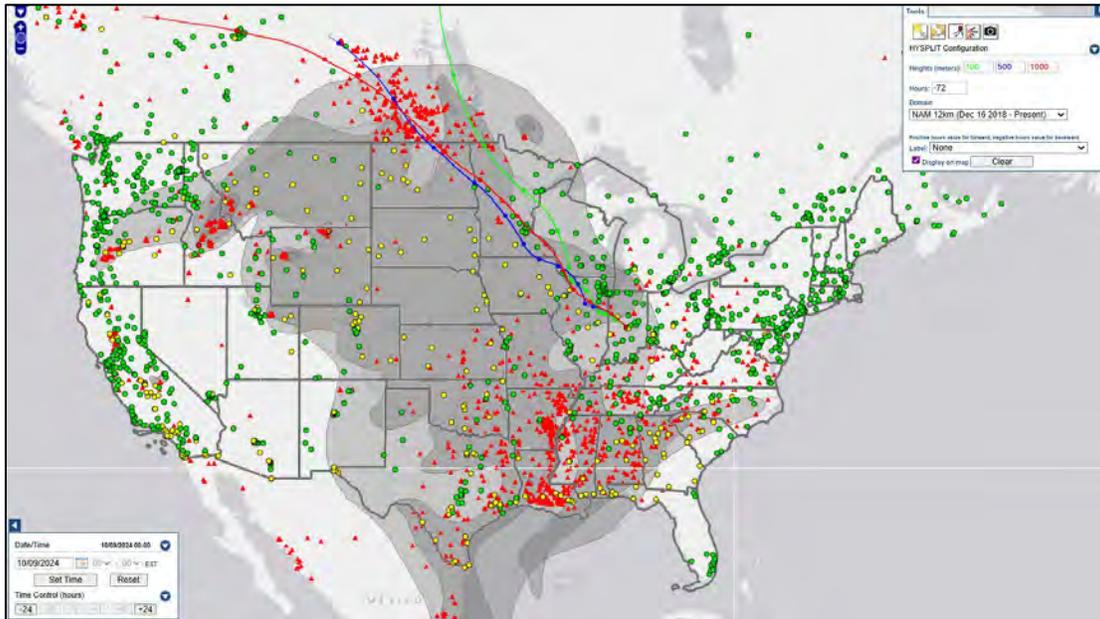
An area of light-to-moderate density smoke attributed to wildfire activity throughout the Pacific Northwest, specifically western Oregon, was observed moving east through Idaho, Wyoming and Montana. As the mass of smoke continued eastward and reached the Dakotas, it became more moderate in density as it gained mass from additional wildfire activity within Idaho and Wyoming before extending further east over southern Ontario and Quebec, eventually dispersing into the Northeastern region of the United States. Light density smoke was also seen extending south through the Mississippi Valley and the Gulf Coast, while also extending northeast into the Southeastern United States along the eastern side of the Appalachian Mountains.

October 9, 2024

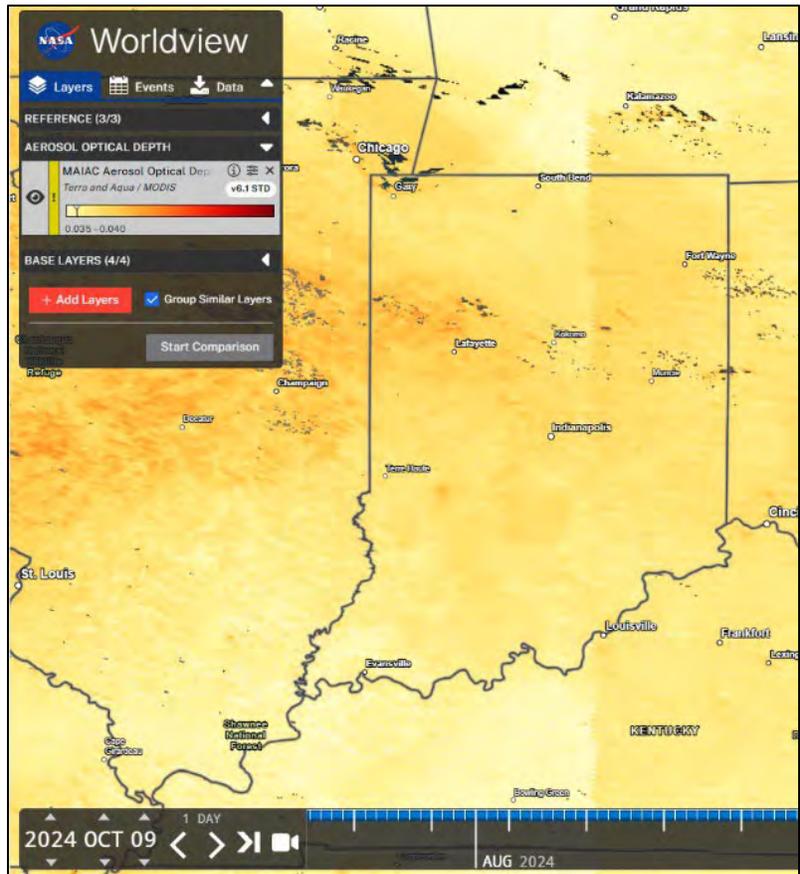
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Indianapolis - W. 18th St.	180970081	10/9/2024	22.5	20.9

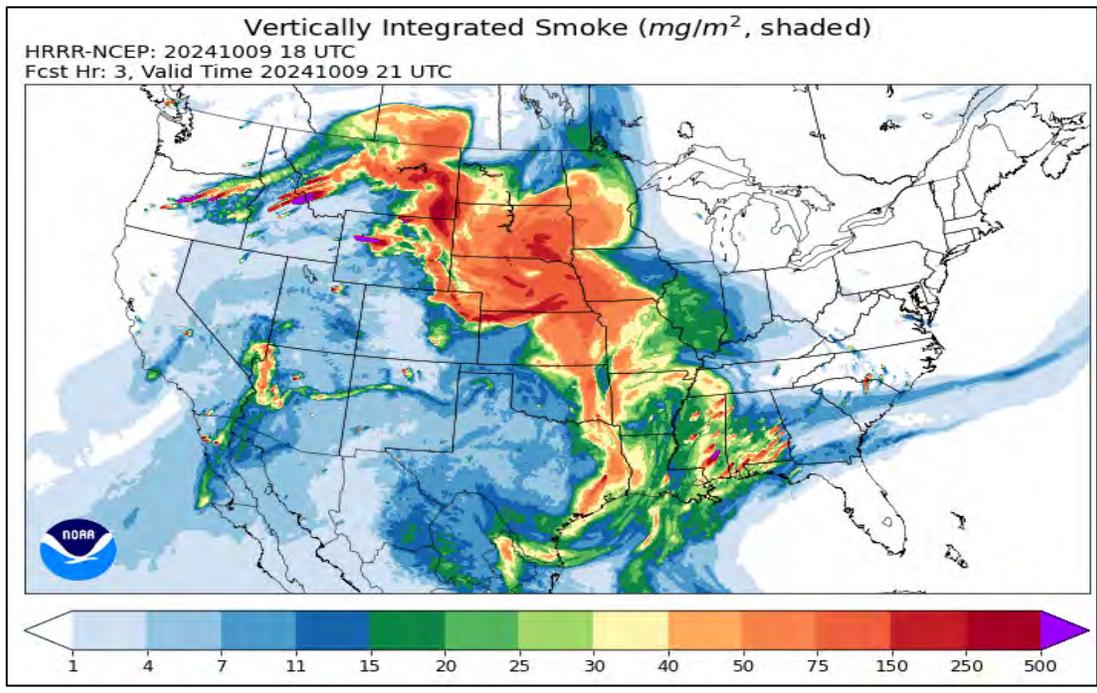
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 9, 2024



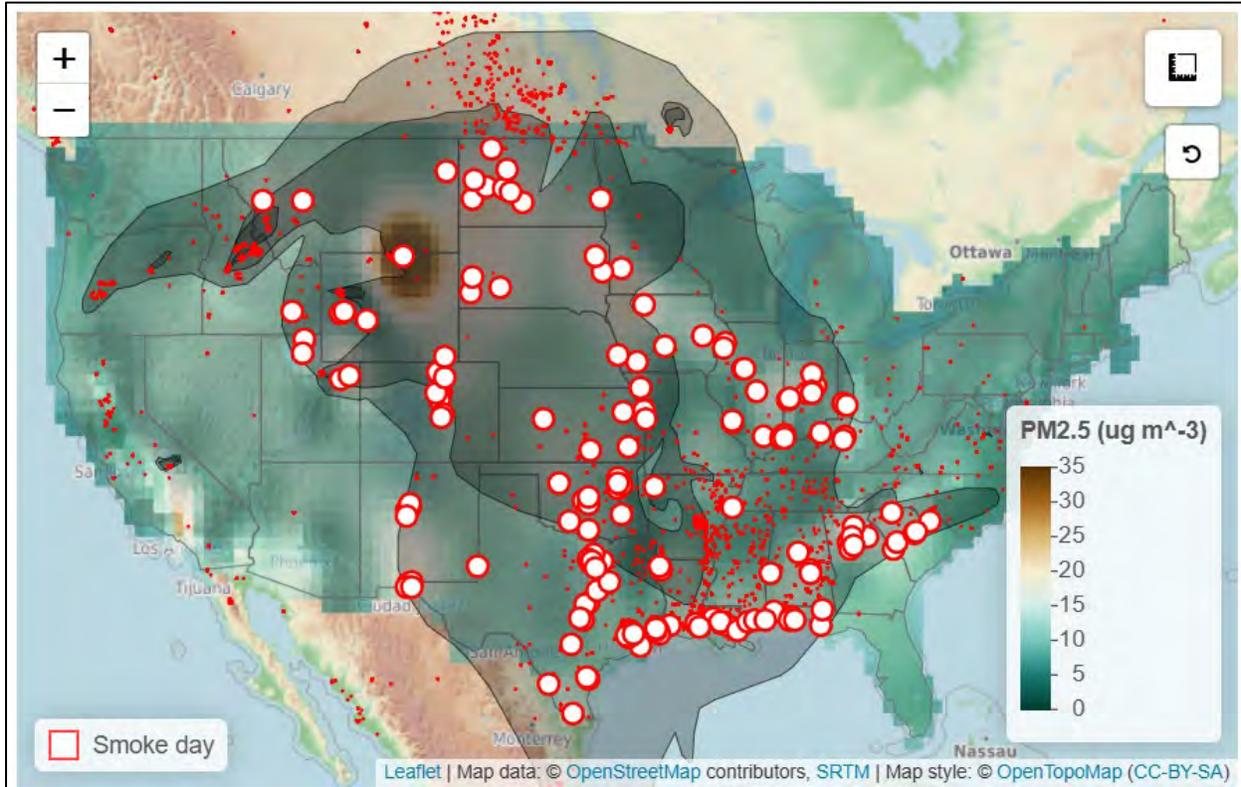
Satellite Imagery with MAIAC AOD – October 9, 2024



HRRR Smoke - Vertically Integrated Smoke – October 9, 2024



GAM PMO3 Smoke Output – October 9, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Tuesday, October 8, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0000Z October 9, 2024

SMOKE :

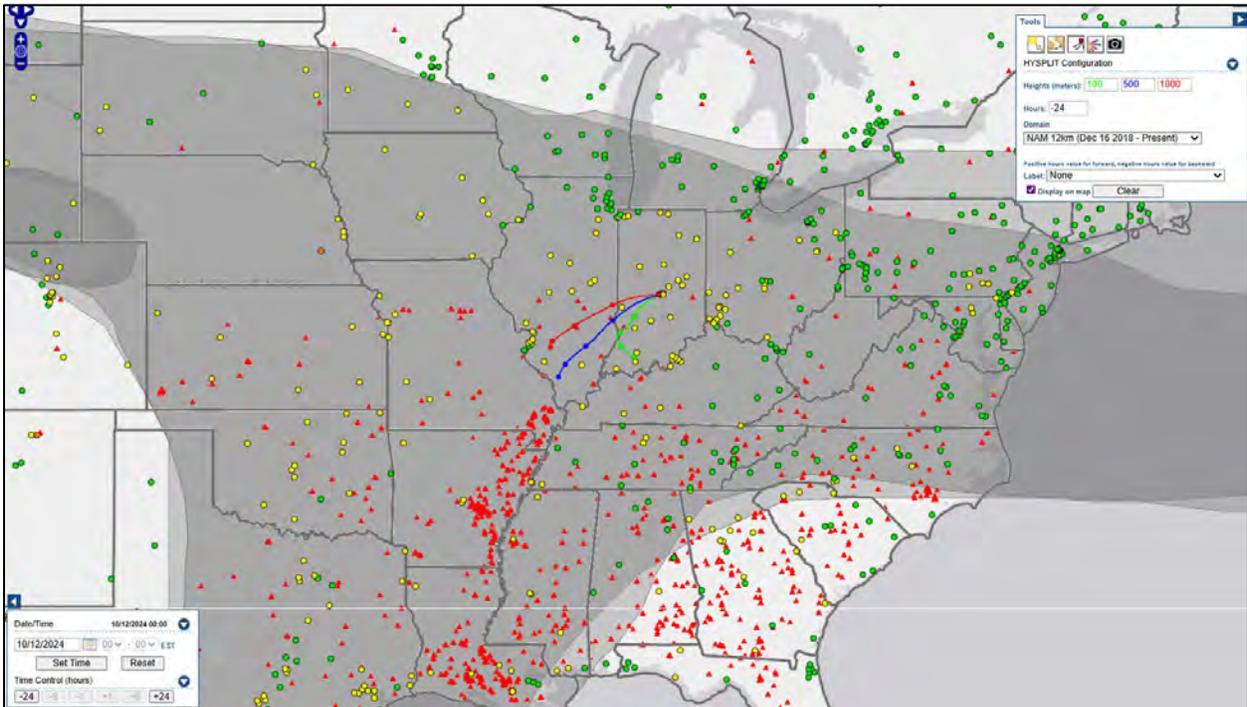
Northwestern/Central/Midwestern/Southeastern United States...
 A large area of mixed density smoke attributed to large wildfires in western Oregon, central Idaho, southwestern Montana, western/northern Wyoming, and northern Nevada and Utah continues to be seen stretching eastward through the Central Plains and southeastward through the Mississippi River Basin,

October 12, 2024

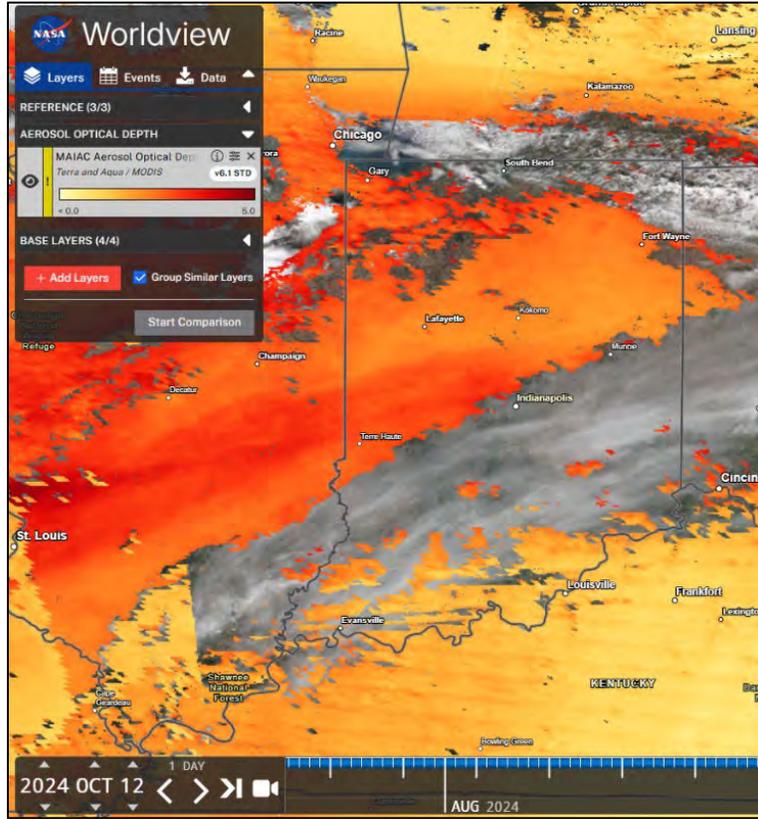
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Indianapolis - W. 18th St.	180970081	10/12/2024	21.0	20.9

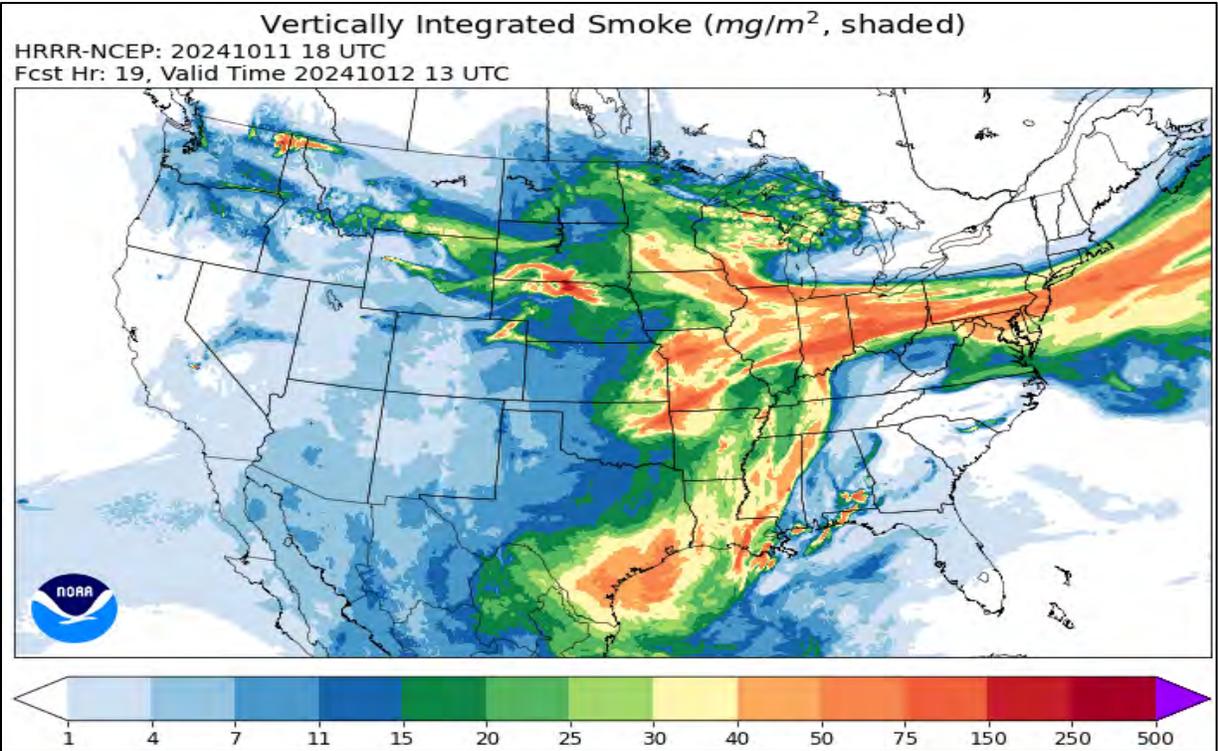
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 12, 2024



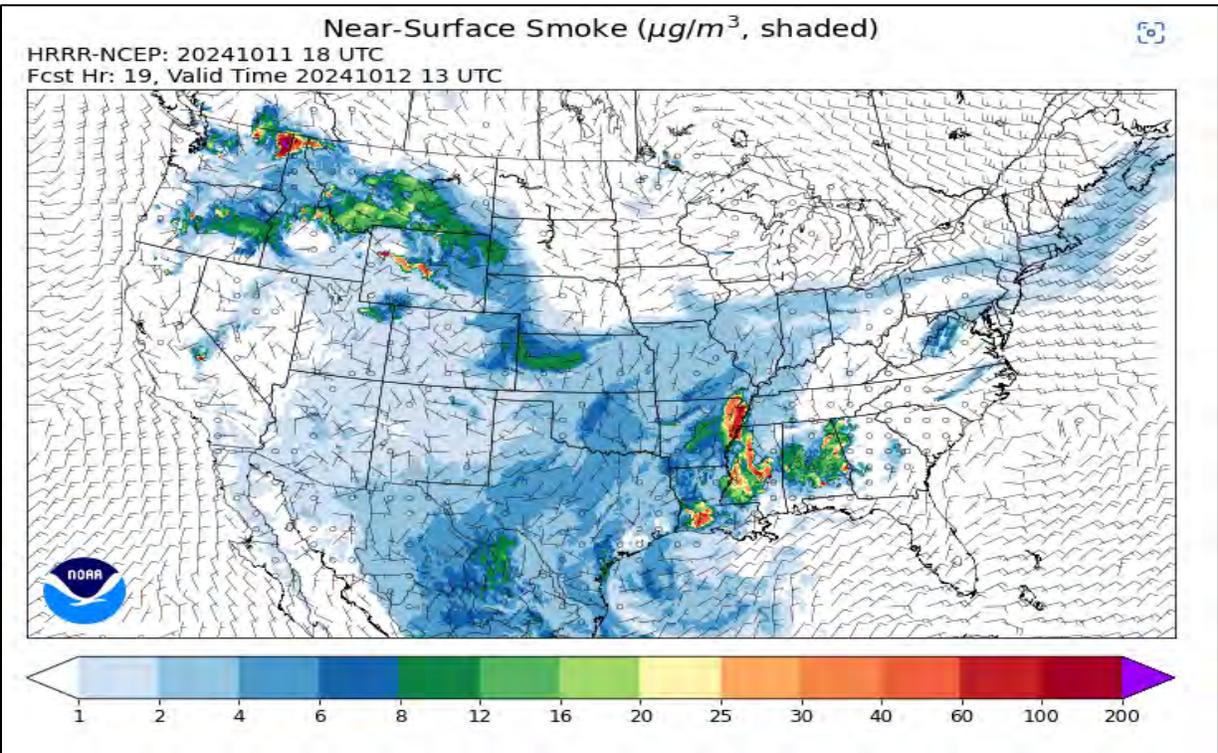
Satellite Imagery with MAIAC AOD – October 12, 2024



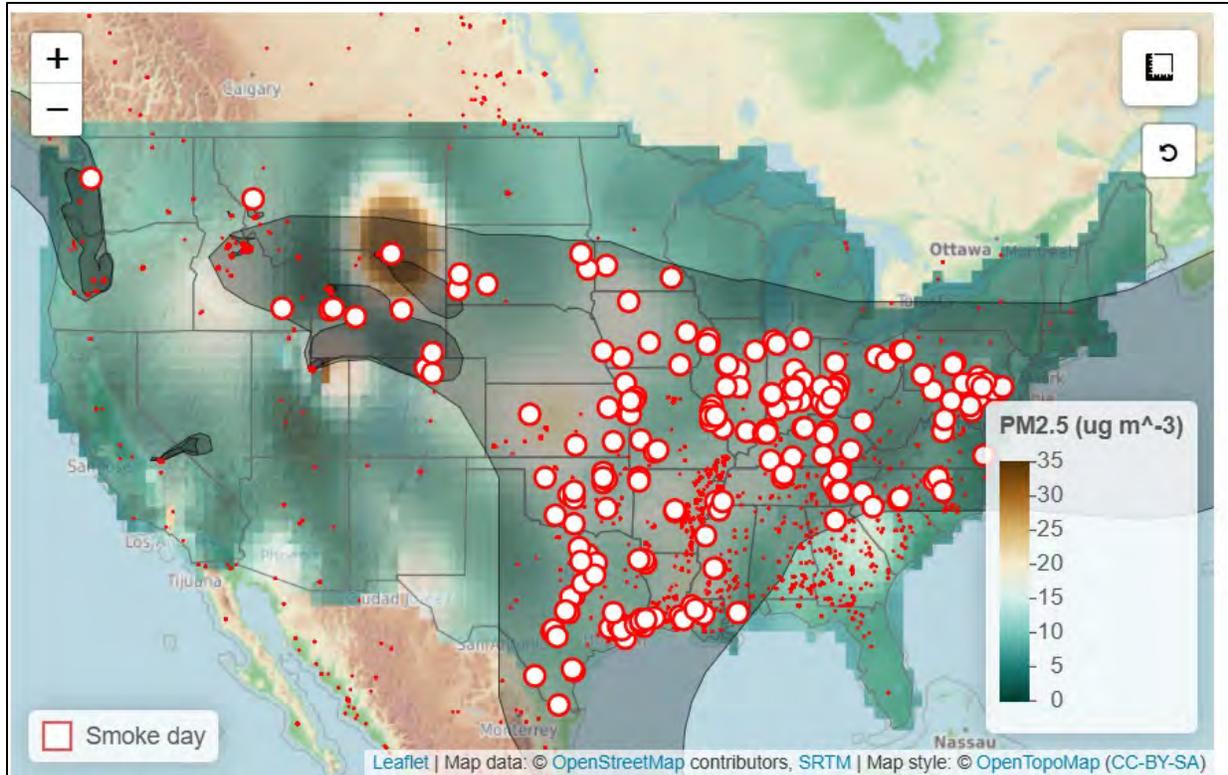
HRRR Smoke - Vertically Integrated Smoke – October 12, 2024



HRRR Smoke - Near Surface Smoke – October 12, 2024



GAM PMO3 Smoke Output – October 12, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Friday, October 11, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0123 October 12, 2024

SMOKE:

Pacific Northwest/Great Plains//Great

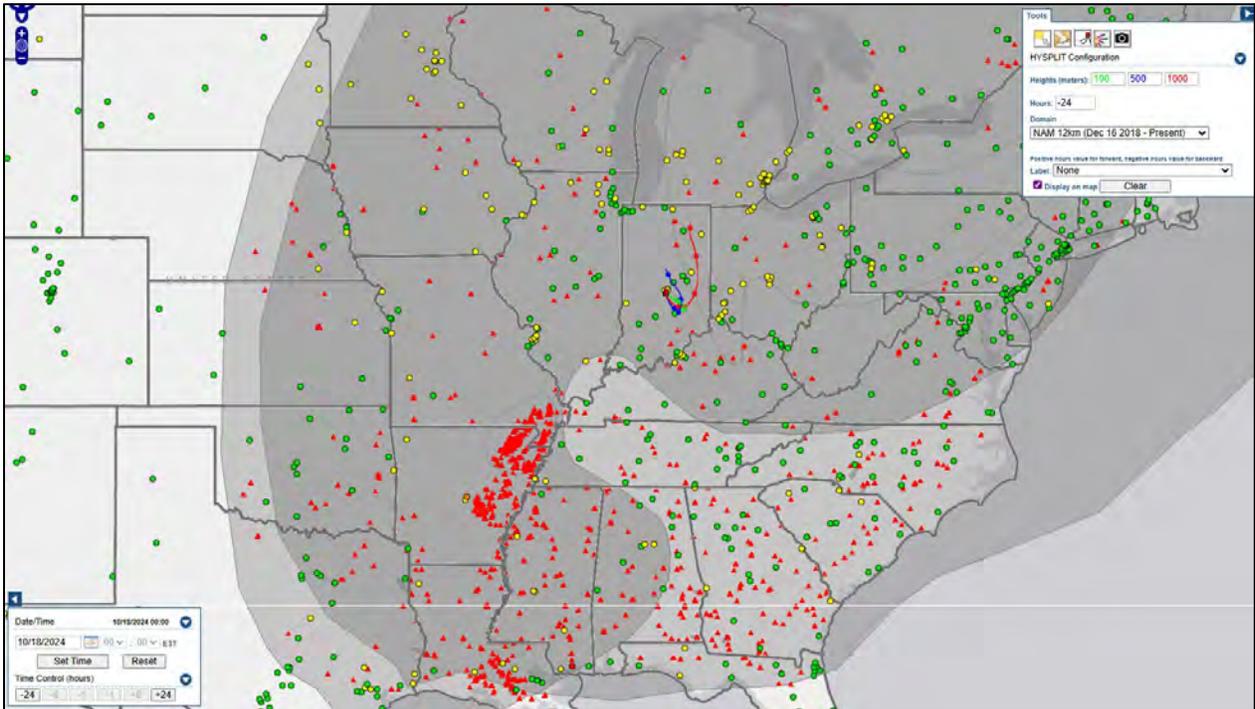
Lakes/Mid-Atlantic/Midwest/Southeastern United States/Gulf of Mexico... Wildfire activity across the Pacific Northwest, northwest Canada and northern California continue to release moderate to localized thick density smoke throughout western Oregon, central Idaho, southwestern Montana, western/northern Wyoming, and northern Utah. Moderate density smoke attributed to the large wildfires located east of central Idaho, southwestern Montana, western/northern Wyoming and northeastern Utah were seen moving east over the Great Plains towards the Great Lakes, eventually reaching through southern Canada the northeast U.S. over the coastal Atlantic. As the moderate smoke moved east through the Great Plains, it mixed with an area of lighter density remnant smoke caused by previous and ongoing wildfires as well as seasonal agricultural burning throughout the Southeastern United States.

October 18, 2024

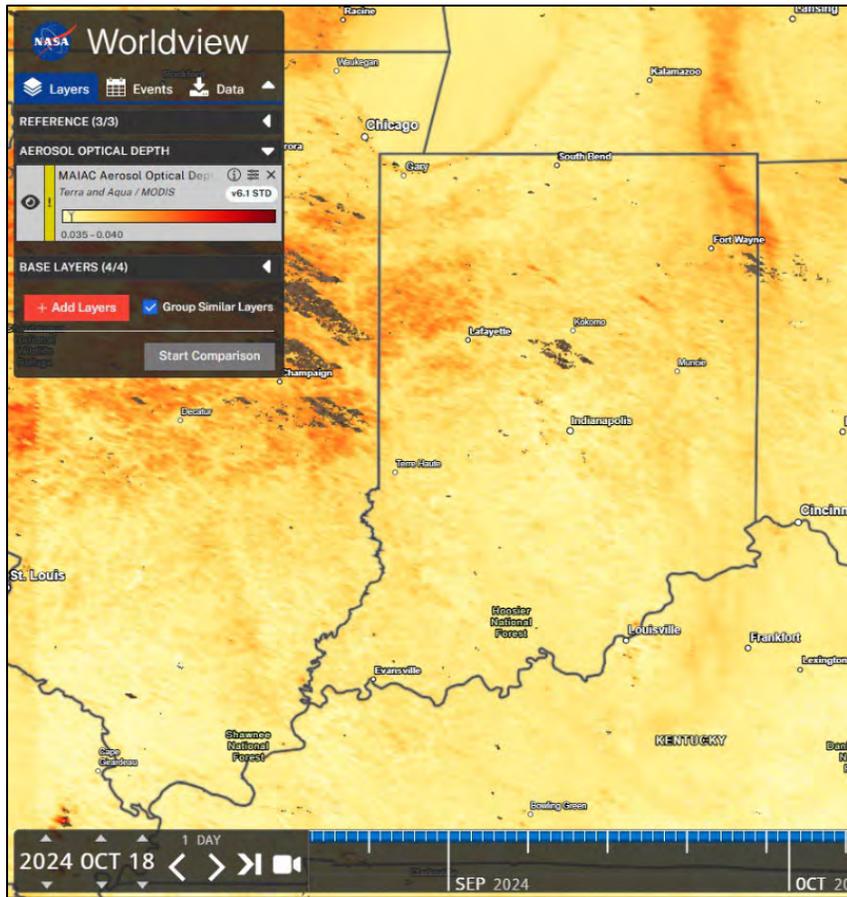
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Indianapolis - W. 18th St.	180970081	10/18/2024	24.5	20.9
Indianapolis- I-70 E	180970087	10/18/2024	24.6	20.5

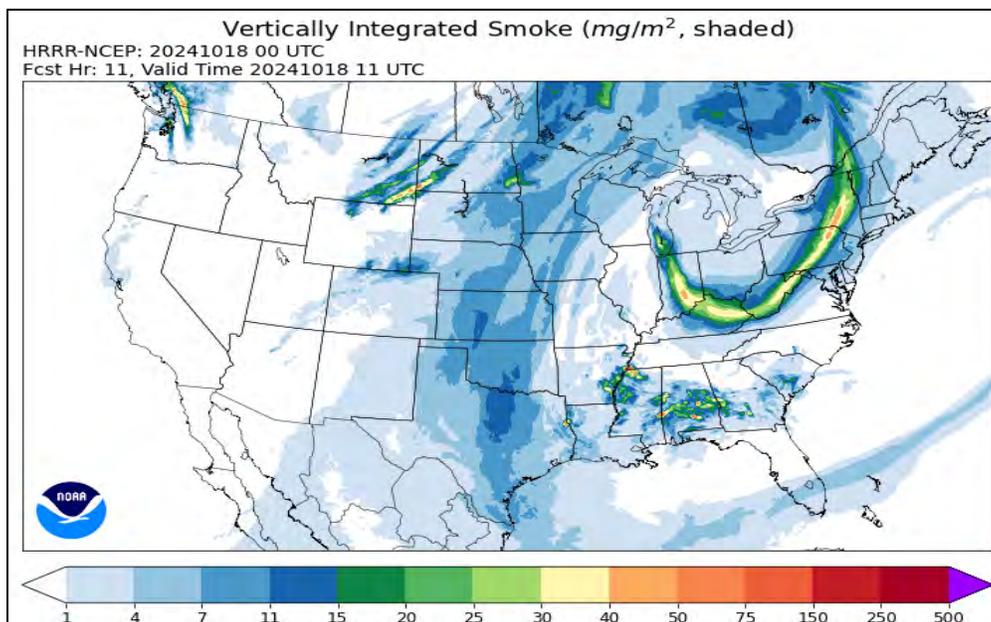
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 18, 2024



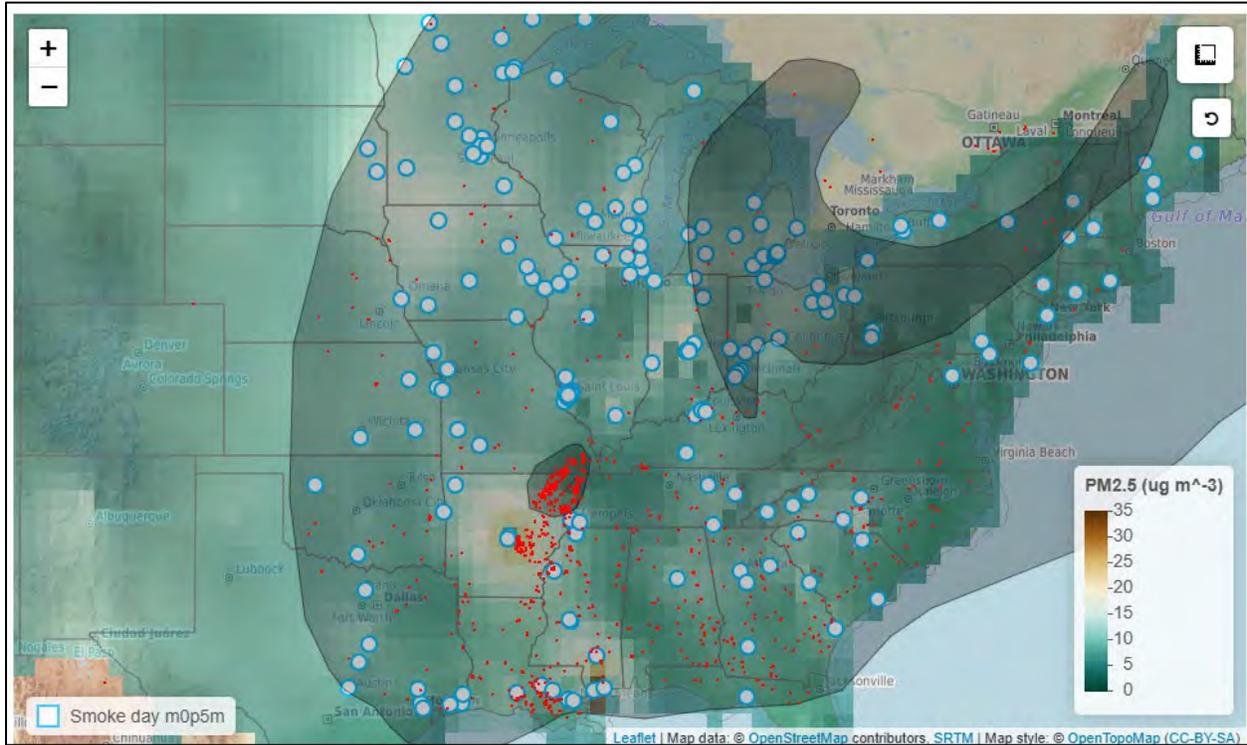
Satellite Imagery with MAIAC AOD – October 18, 2024



HRRR Smoke - Vertically Integrated Smoke – October 18, 2024



GAM PMO3 Smoke Output – October 18, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Friday, October 18, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1600Z October 18, 2024

SMOKE:

Eastern Canada/Midwest/Mississippi Valley/Northeast U.S...

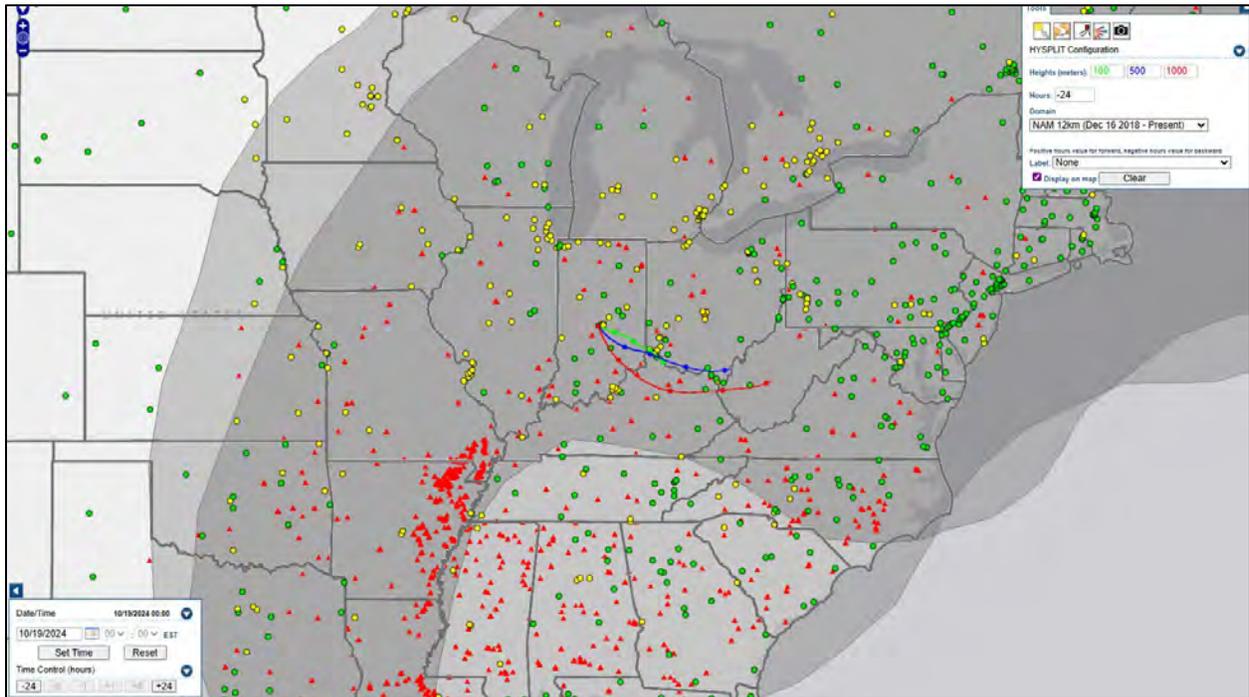
A layer of mixed density smoke was observed today, produced from a mixture of wildfires in the west and agricultural burning in the southeastern, extending from the Midwest, south along the Mississippi Valley, and northeast through the Northeastern U.S and Eastern Canada. A patch of active moderate smoke was observed extending east from Michigan through the Ohio Valley and ending northeast into New Hampshire/Vermont border. Smoke may present further west however heavy cloud cover over the region prevented further analysis.

October 19, 2024

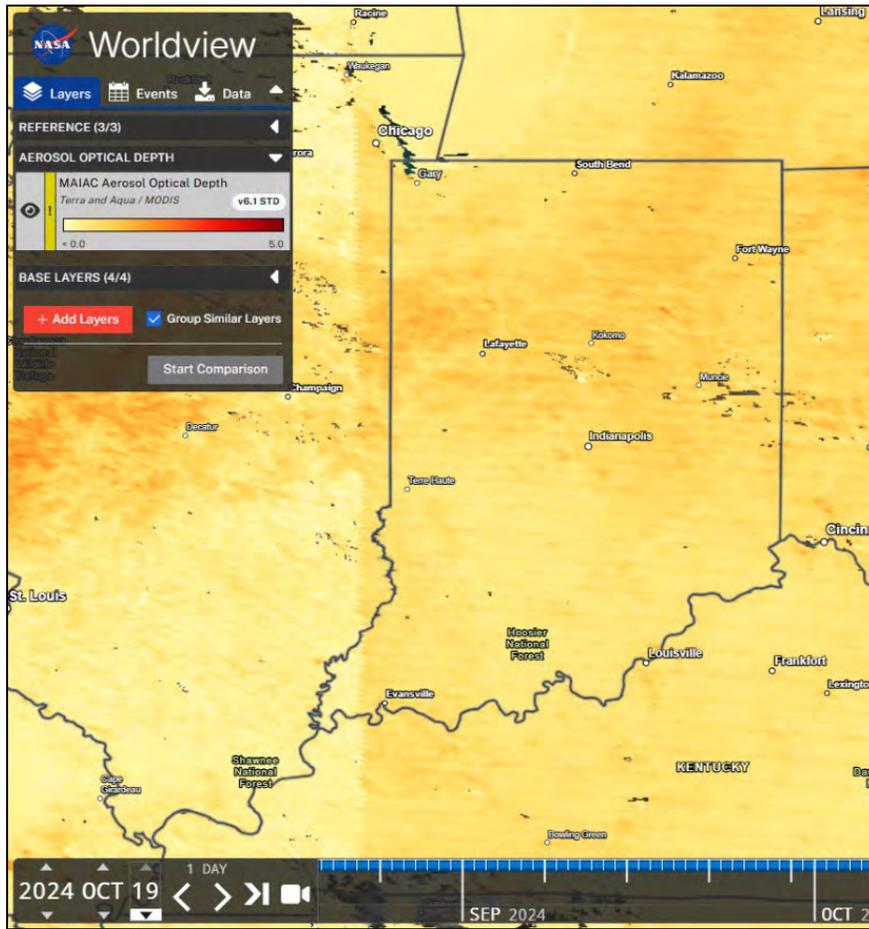
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	10/19/2024	15.7	13.2
Indianapolis - Washington Park	180970078	10/19/2024	21.7	17.8
Indianapolis - W. 18th St.	180970081	10/19/2024	41.1	20.9
Indianapolis- I-70 E	180970087	10/19/2024	29.0	20.5

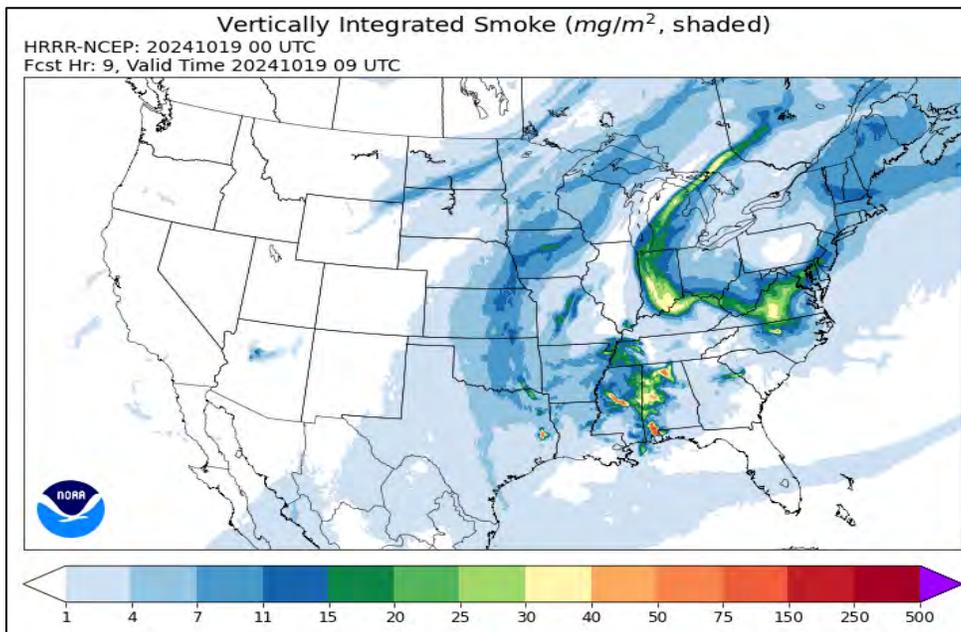
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 19, 2024



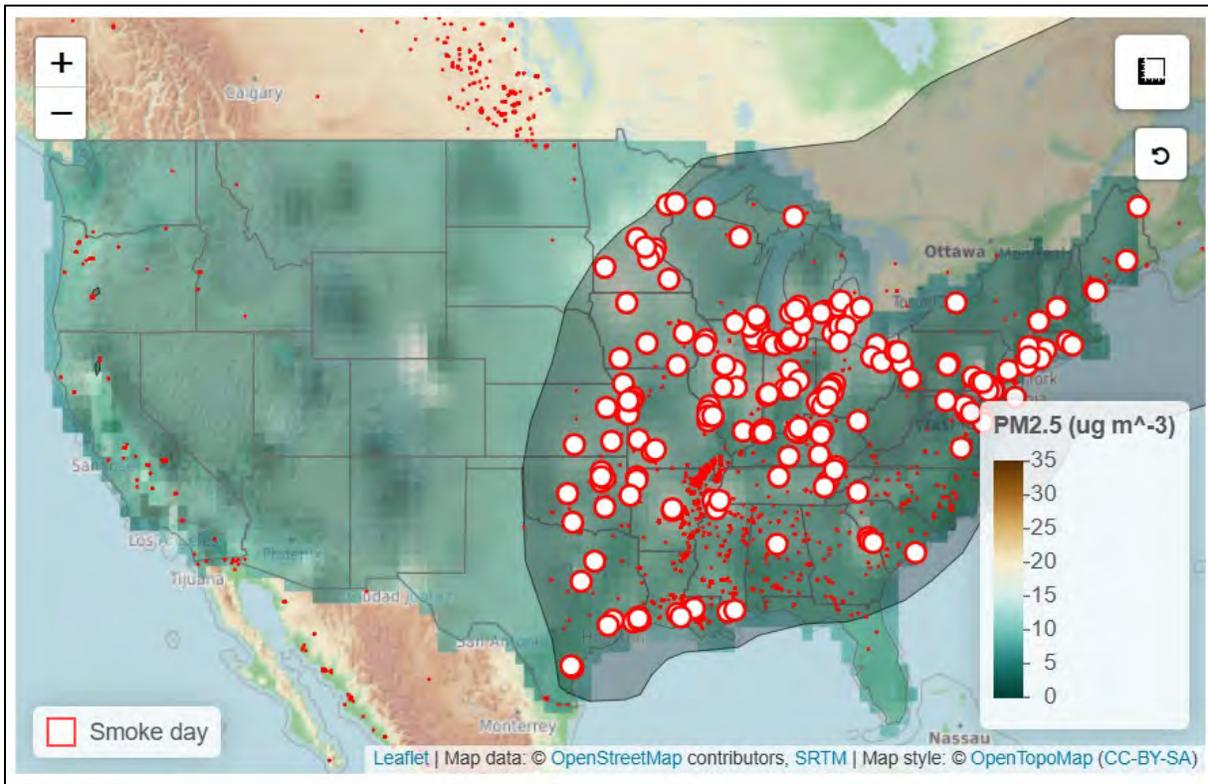
Satellite Imagery with MAIAC AOD – October 19, 2024



HRRR Smoke - Vertically Integrated Smoke – October 19, 2024



GAM PMO3 Smoke Output – October 19, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Saturday, October 19, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1530Z October 19, 2024

SMOKE:

Eastern Canada/Midwest/Mississippi Valley/Northeast U.S...

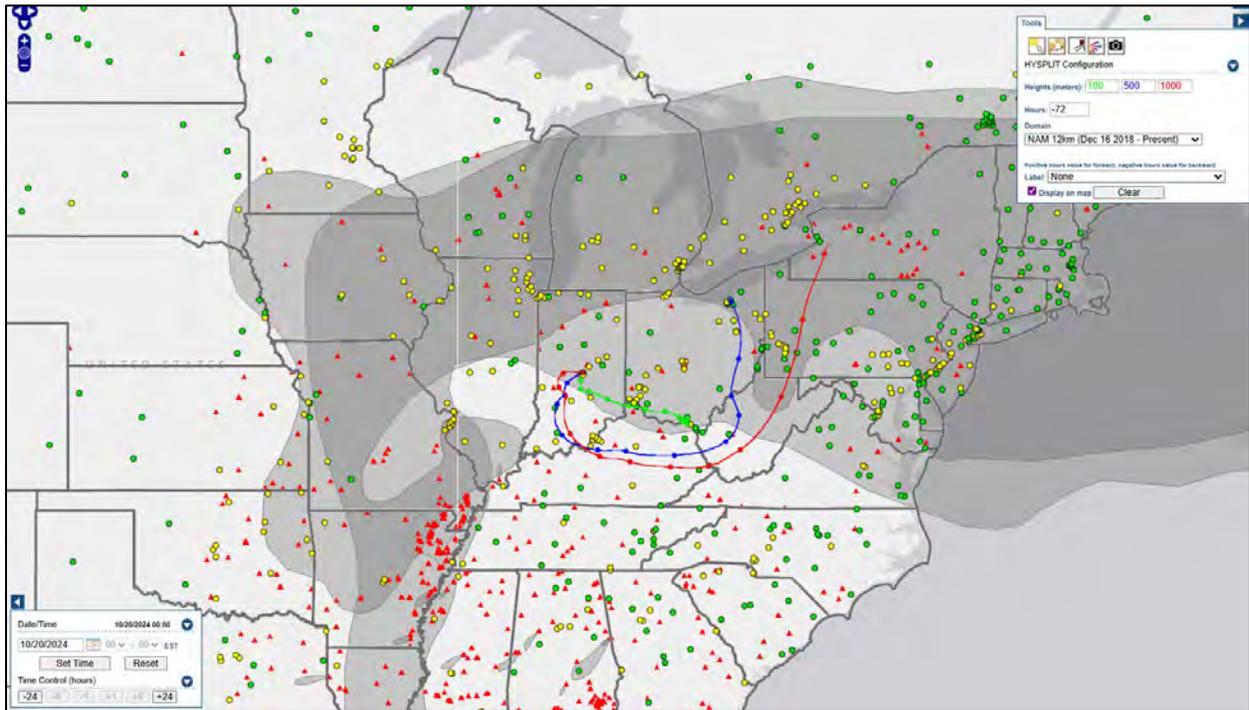
A layer of mixed density smoke was observed today, produced from a mixture of wildfires in the west and agricultural burning in the southeastern, extending from the Midwest, south along the Mississippi Valley, and northeast through the eastern U.S and southeastern Canada. c. Smoke may present further west however heavy cloud cover over the region prevented further analysis.

October 20, 2024

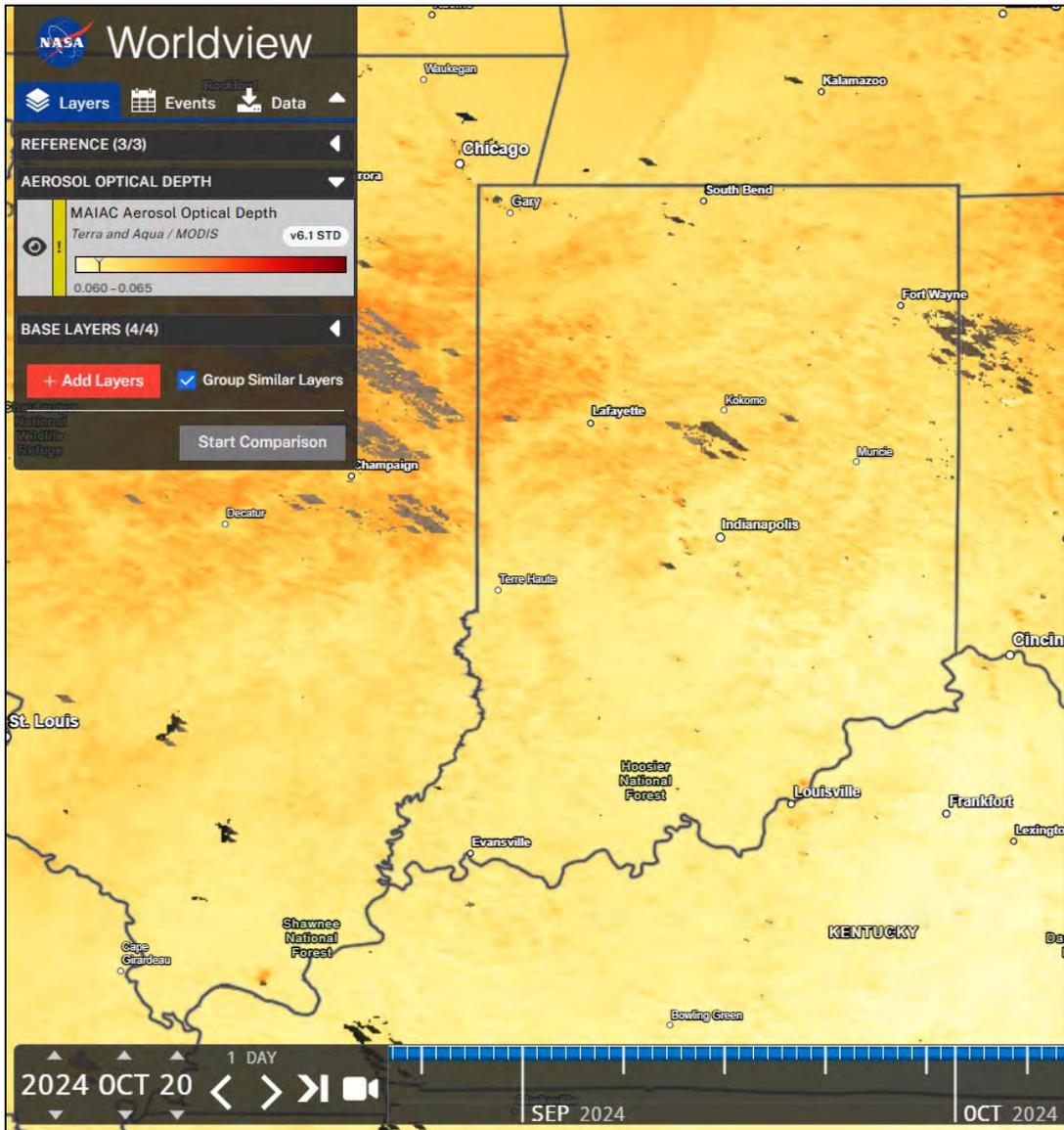
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Jeffersonville - Bates-Bowyer Ave	180190010	10/20/2024	20.3	17.0
Muncie - Central HS	180350006	10/20/2024	17.0	13.2
Indianapolis - Washington Park	180970078	10/20/2024	27.2	17.8
Indianapolis - W. 18th St.	180970081	10/20/2024	50.7	20.9
Indianapolis- I-70 E	180970087	10/20/2024	28.7	20.5
Terre Haute - Lafayette Ave	181670018	10/20/2024	23.0	18.8

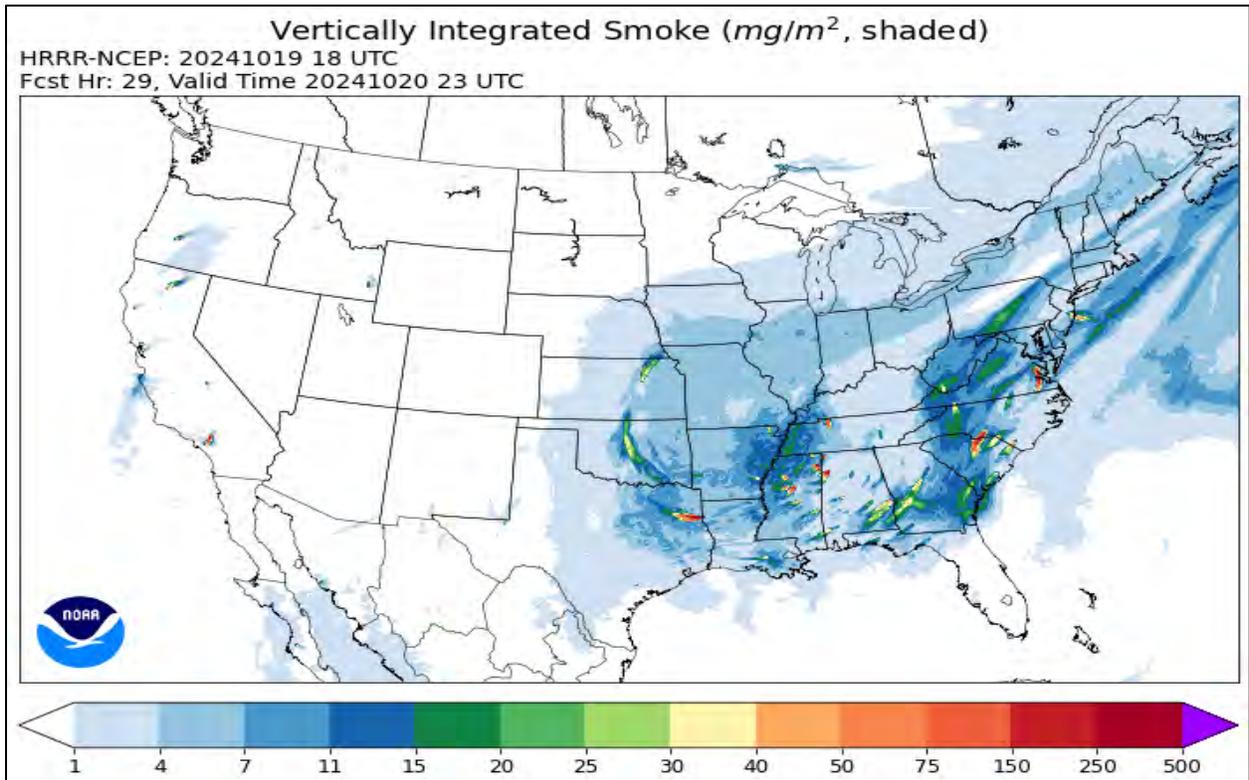
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 20, 2024



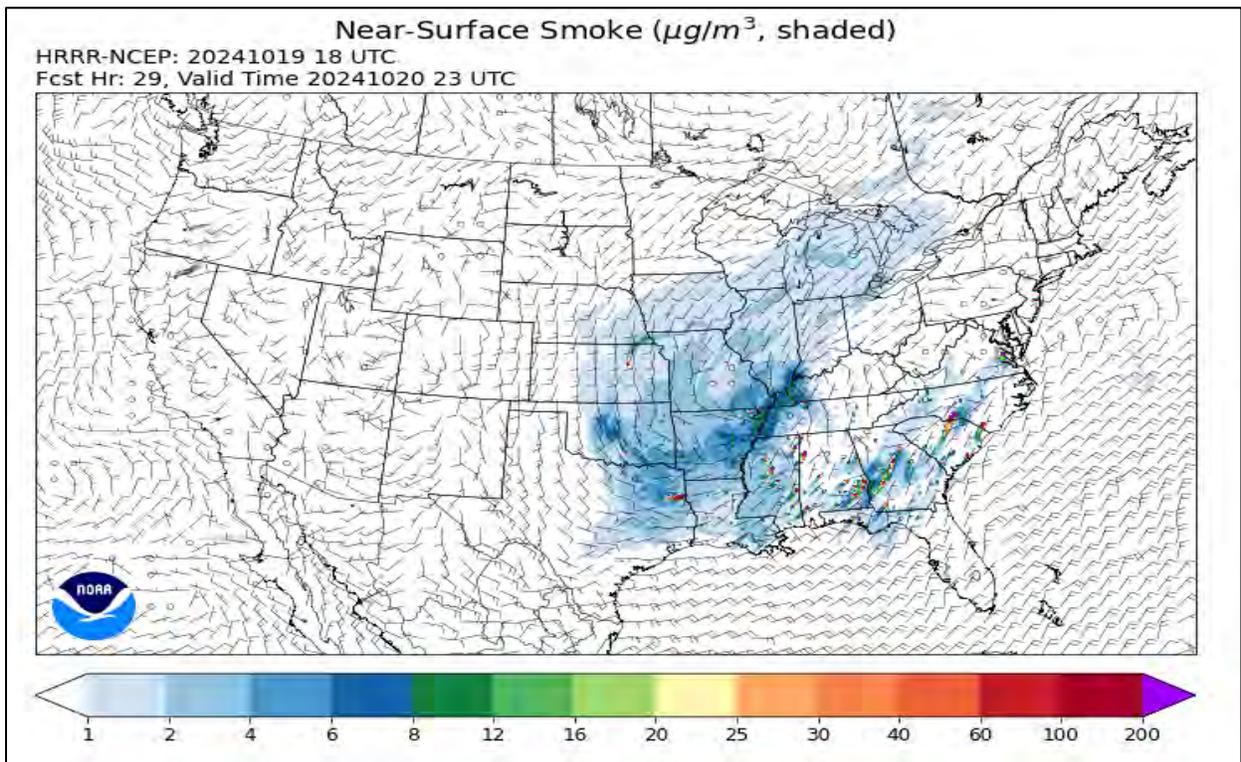
Satellite Imagery with MAIAC AOD – October 20, 2024



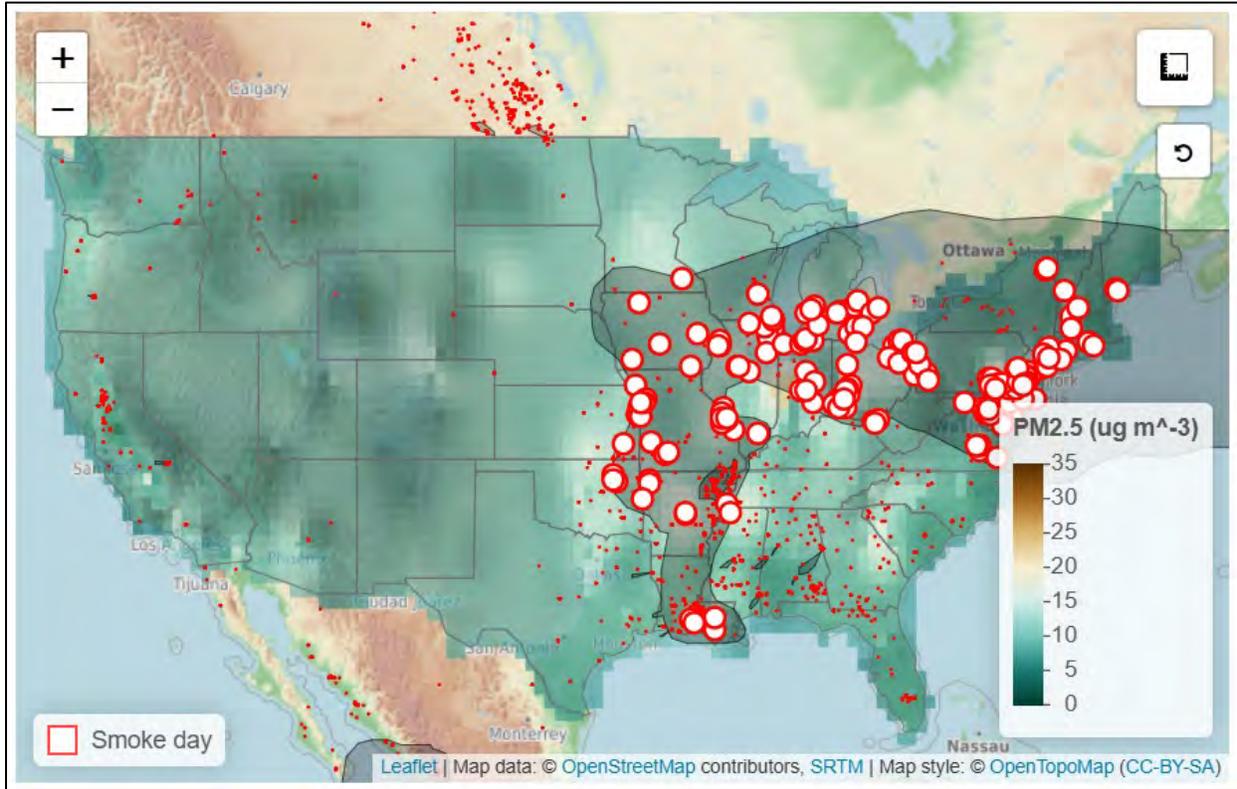
HRRR Smoke - Vertically Integrated Smoke – October 20, 2024



HRRR Smoke – Near Surface Smoke – October 20, 2024



GAM PMO3 Smoke Output – October 20, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Sunday, October 20, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1500Z October 20, 2024

SMOKE:

Midwest and Northeast U.S./Southern Ontario...

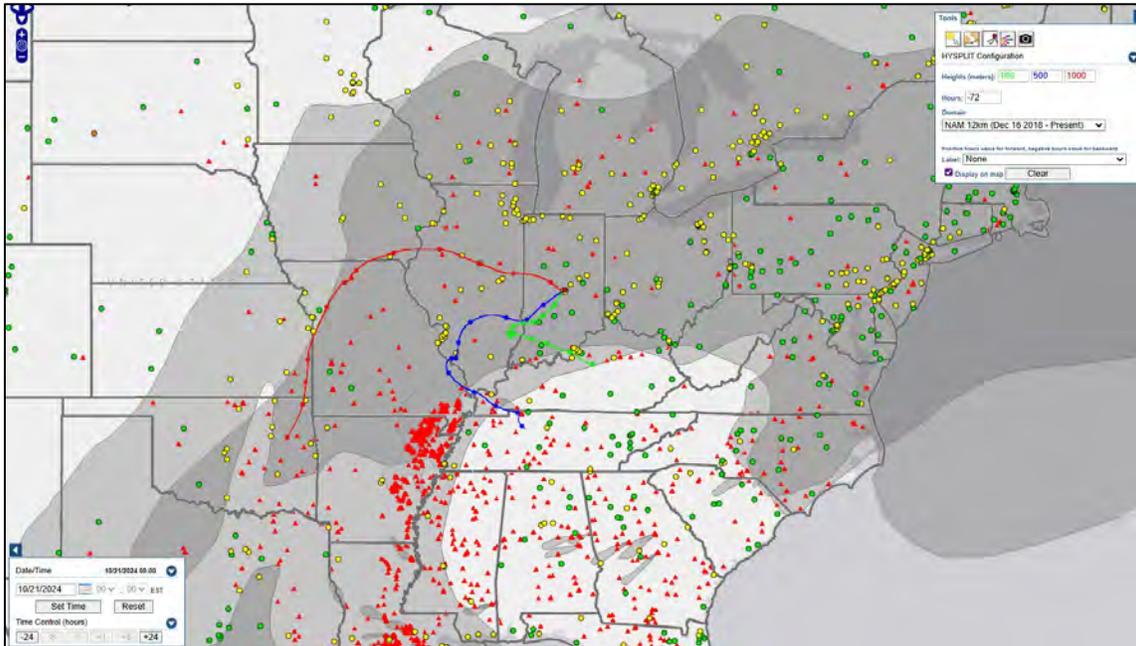
A very thin remnant smoke layer was observed this morning stretching eastward from Iowa and Missouri, though the Great Lakes and Southern Ontario, and the Northeastern U.S., and continuing further east over northern Atlantic Ocean.

October 21, 2024

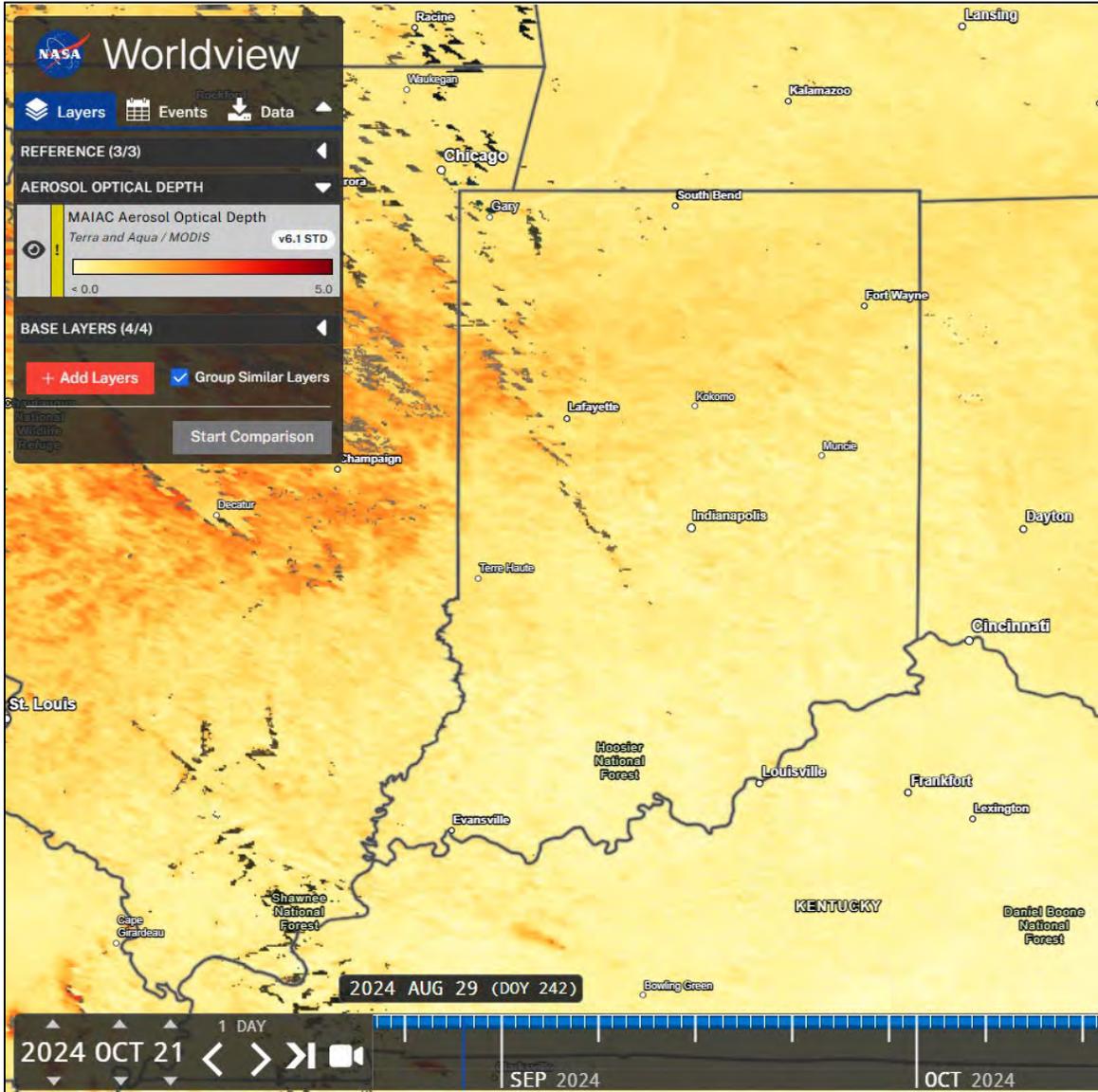
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Jeffersonville - Bates-Bowyer Ave	180190010	10/21/2024	18.4	17.0
Muncie - Central HS	180350006	10/21/2024	18.6	13.2
Indianapolis - Washington Park	180970078	10/21/2024	18.3	17.8
Indianapolis - W. 18th St.	180970081	10/21/2024	30.8	20.9

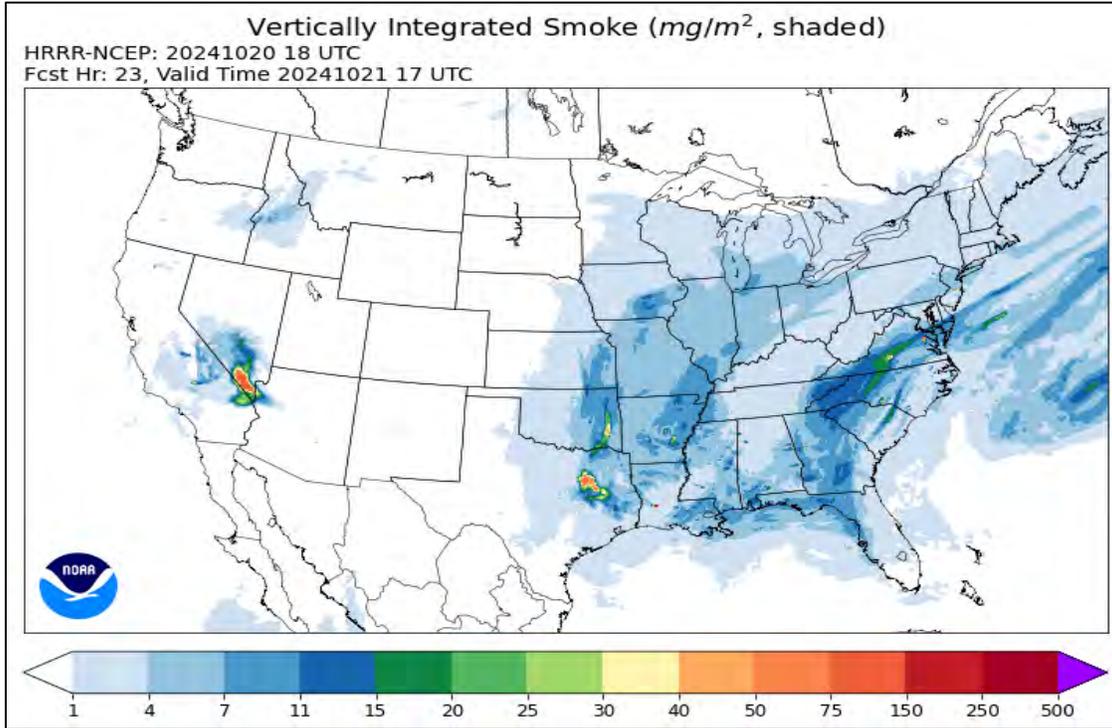
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 21, 2024



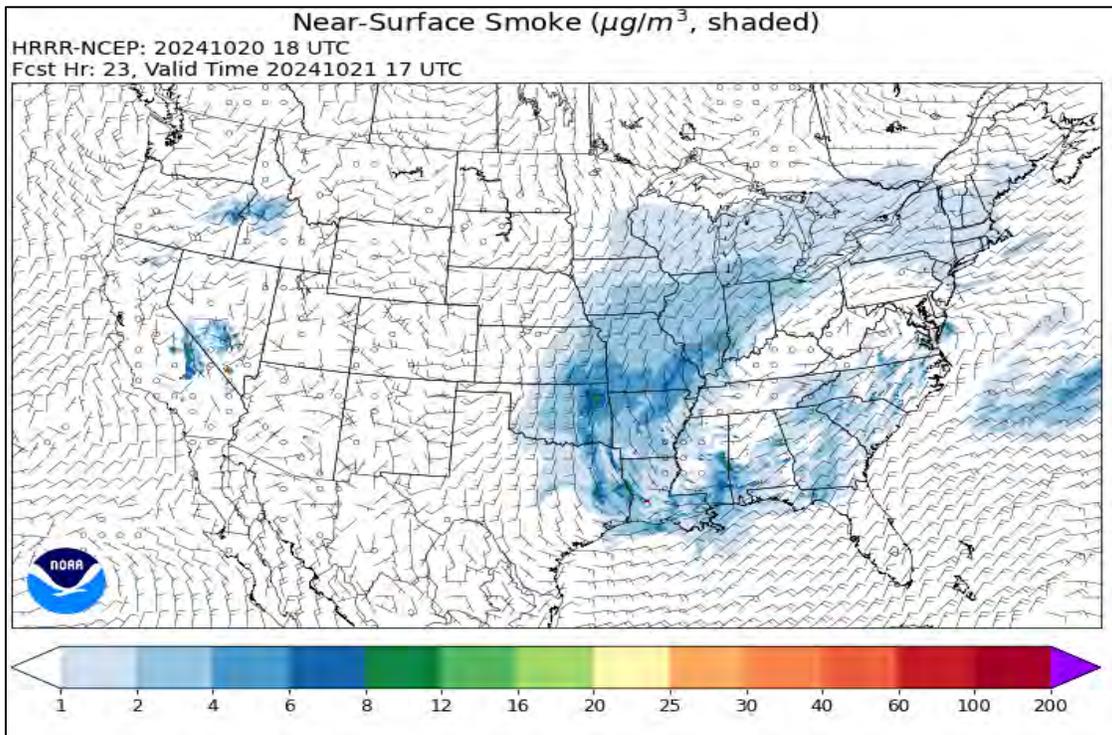
Satellite Imagery with MAIAC AOD – October 21, 2024



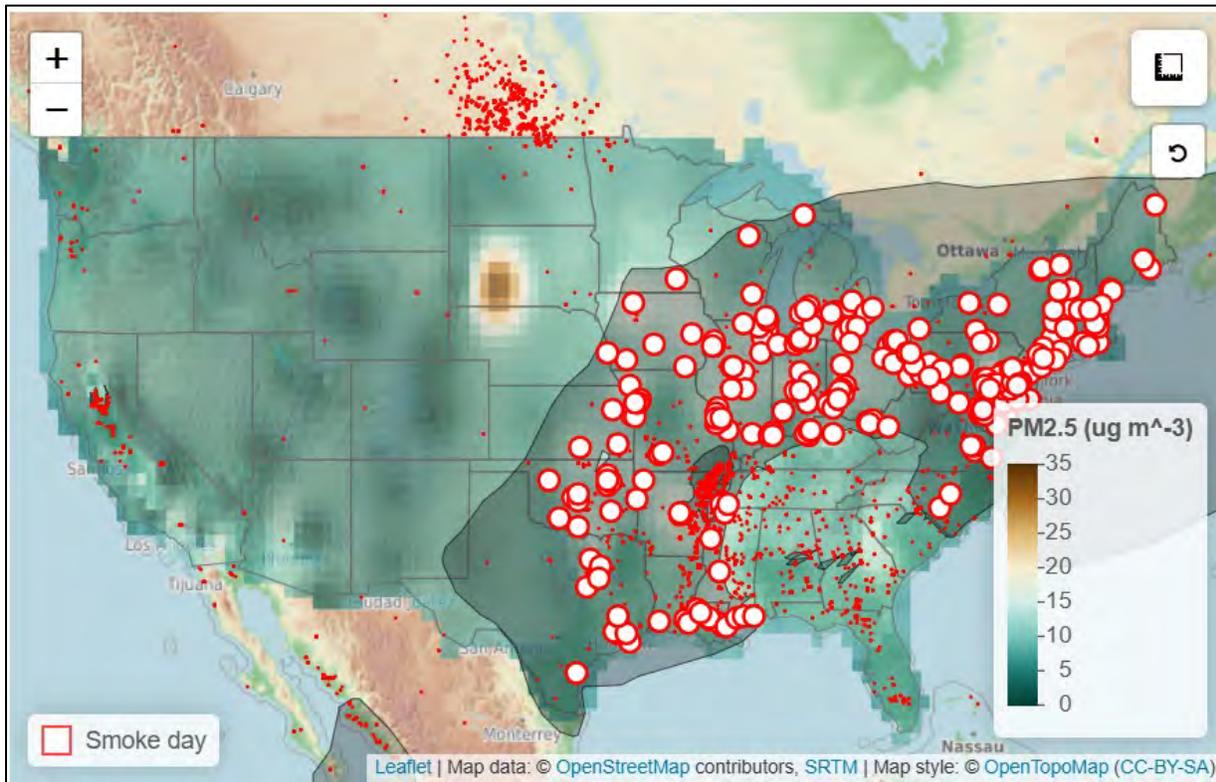
HRRR Smoke - Vertically Integrated Smoke – October 21, 2024



HRRR Smoke – Near Surface Smoke – October 21, 2024



GAM PMO3 Smoke Output – October 21, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Sunday, October 20, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0050Z October 21, 2024

SMOKE:

Midwest and Northeast U.S./Southern Ontario...

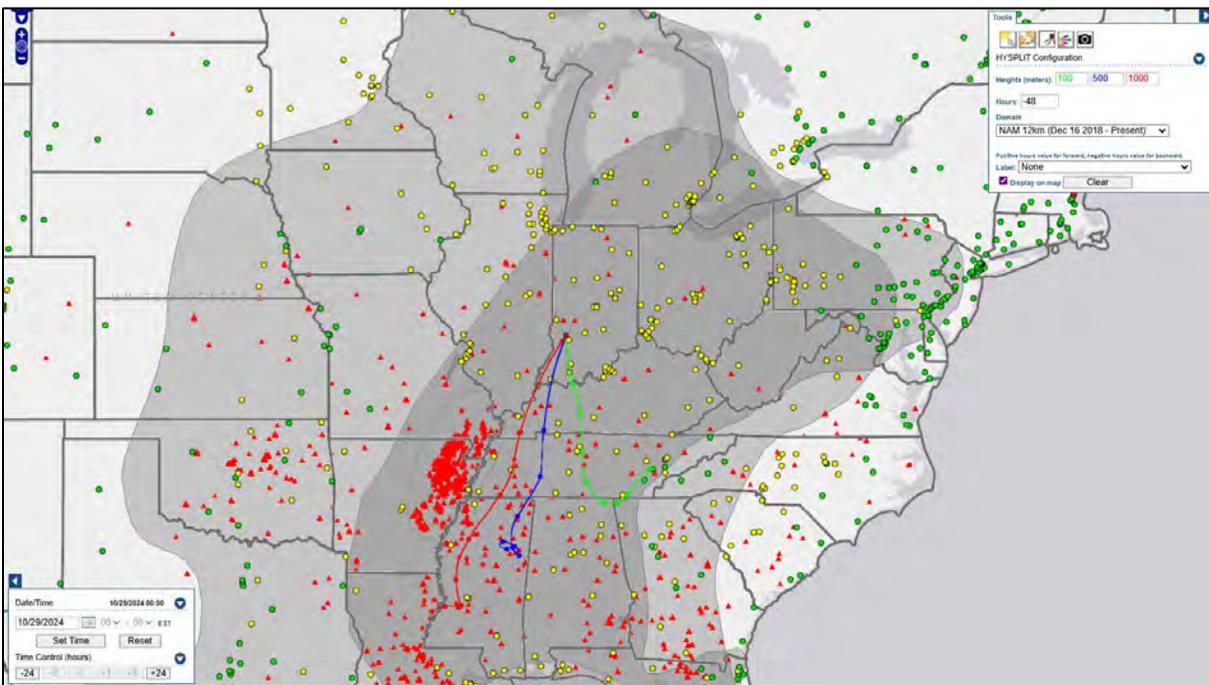
A large area of light density smoke was observed stretching eastward from the Mississippi Valley, through the Great Lakes and Southern Ontario, and the Northeastern U.S., and continuing further east over northern Atlantic Ocean. Within the region. The smoke was produced from the seasonal burning within the southeastern U.S.

October 29, 2024

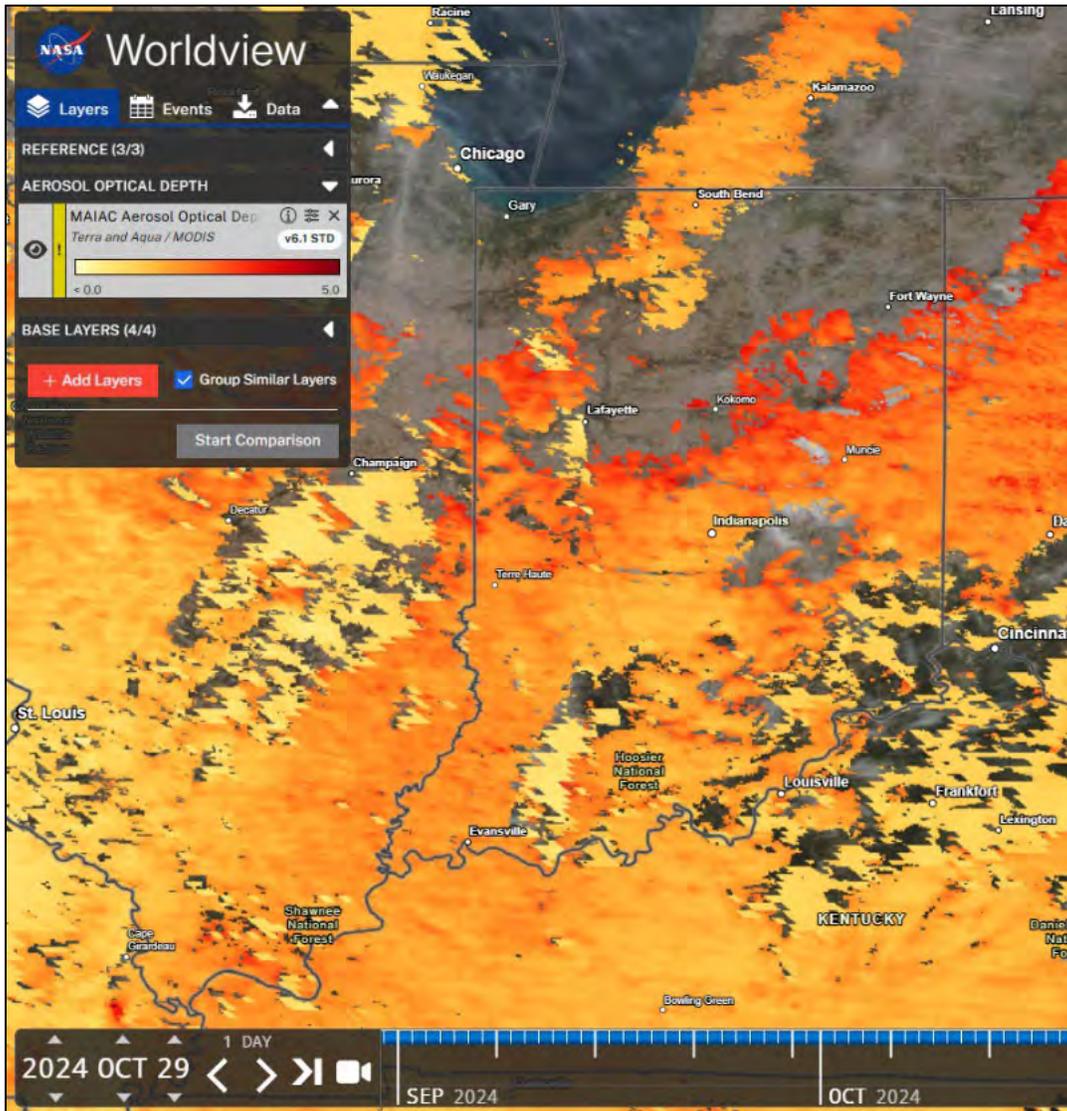
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Columbus - Rocky Ford Drive	180050008	10/29/2024	13.7	13.7
Muncie - Central HS	180350006	10/29/2024	15.5	13.2
Plummer	180550001	10/29/2024	16.9	14.7
Bloomington - Binford	181050003	10/29/2024	15.7	13.9
Evansville - Buena Vista	181630021	10/29/2024	19.4	15.1

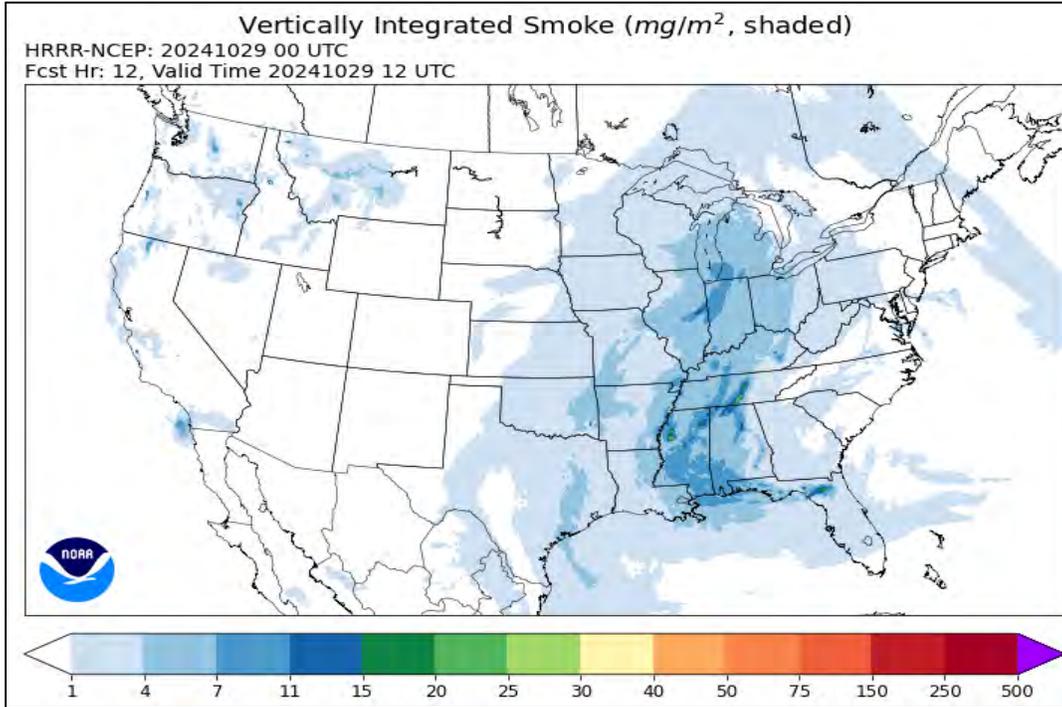
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 29, 2024



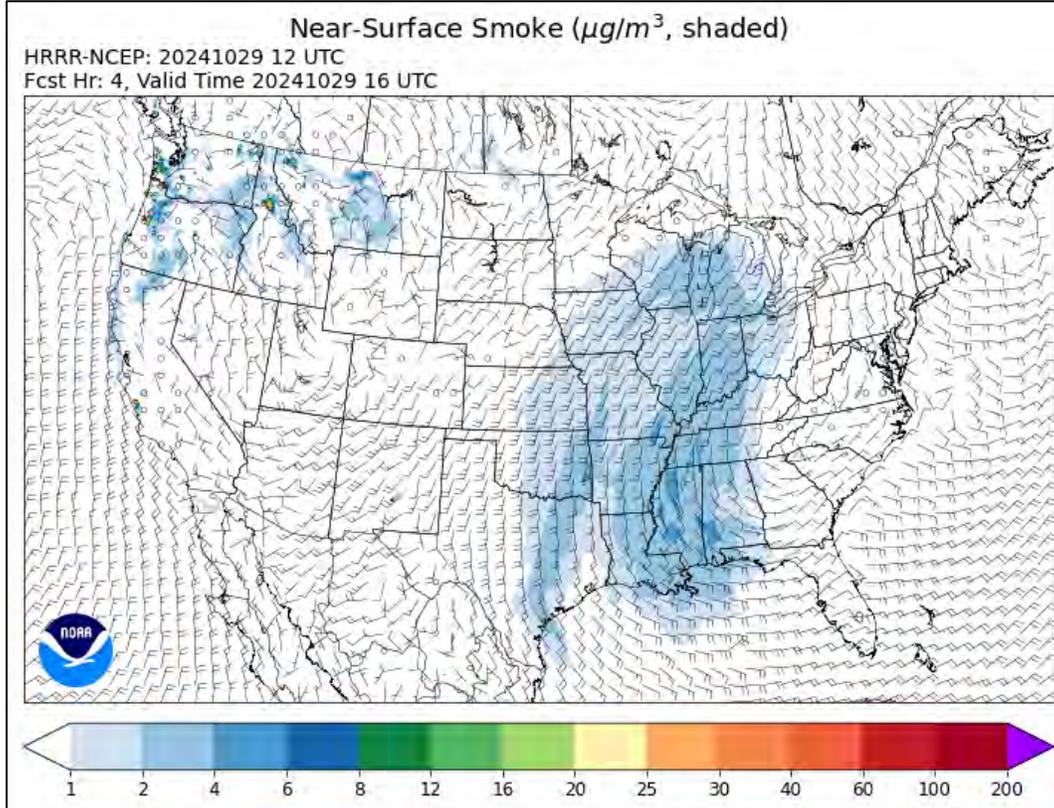
Satellite Imagery with MAIAC AOD – October 29, 2024



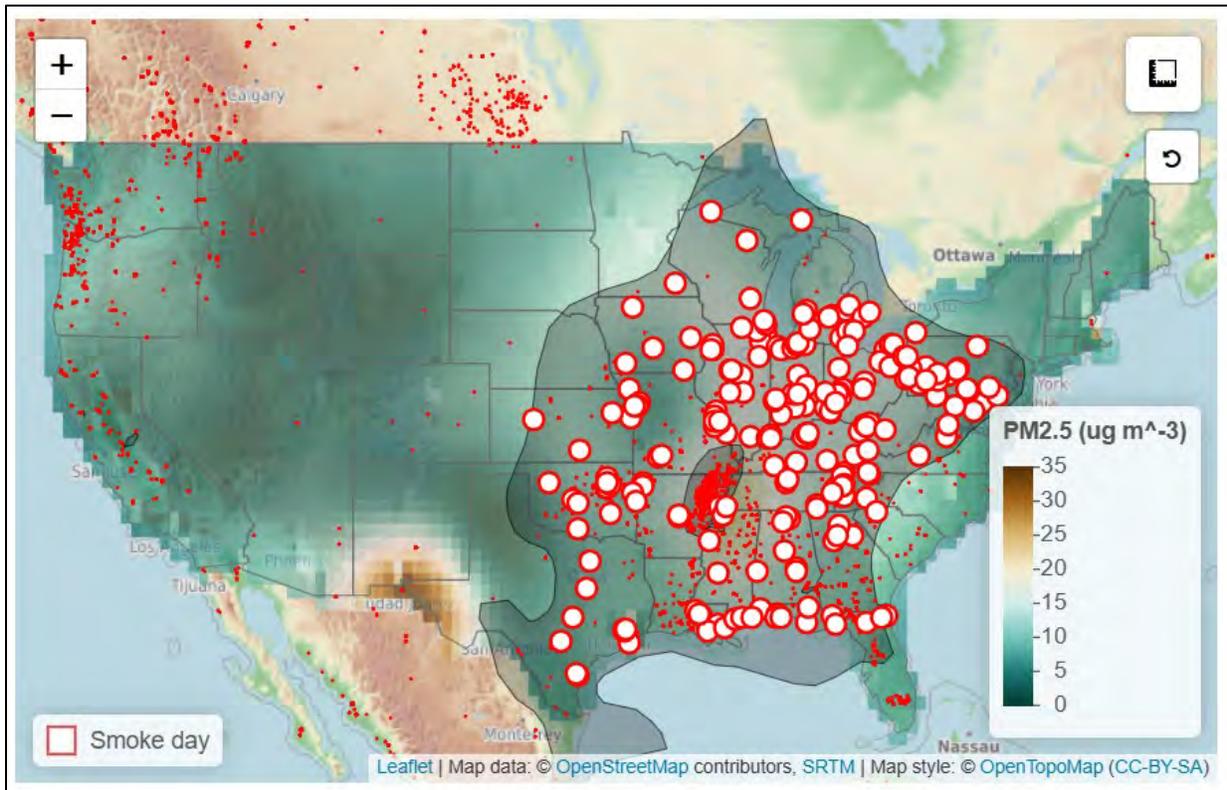
HRRR Smoke - Vertically Integrated Smoke – October 29, 2024



HRRR Smoke - Vertically Integrated Smoke – October 29, 2024



GAM PMO3 Smoke Output – October 29, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Tuesday, October 29, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1500Z October 29, 2024

SMOKE:

Southeastern United States/Gulf Coast/Great Lakes Region...

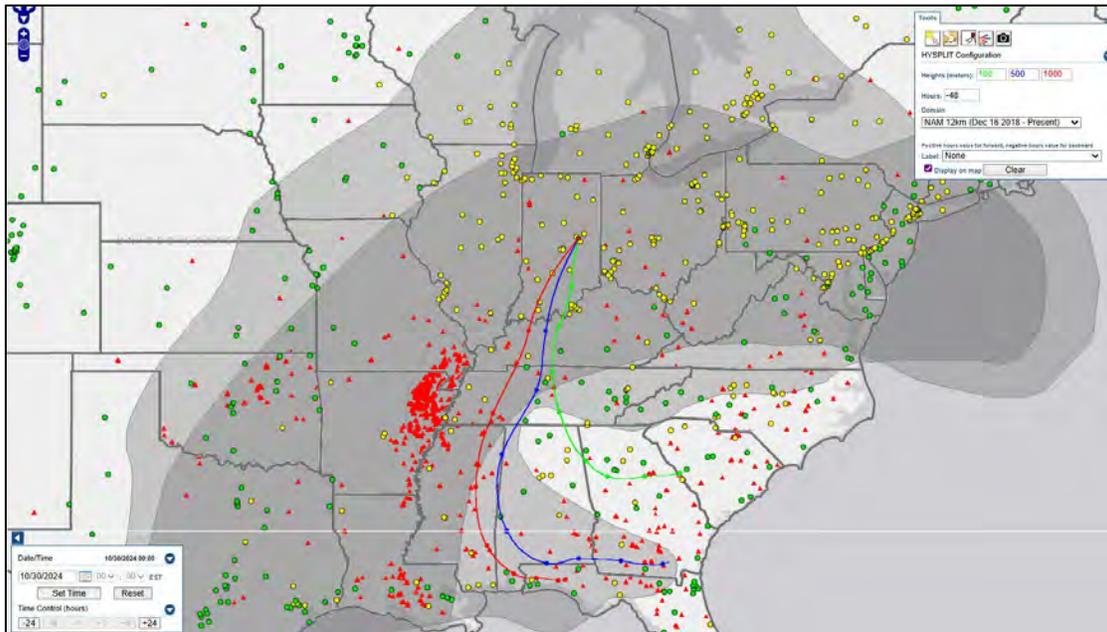
A layer of light-to-moderate density remnant smoke attributed to seasonal agricultural burning along the Mississippi River and throughout the Southeastern United States was observed this morning stretching southeastward from Iowa and Nebraska, through the Lower Mississippi River Basin, continuing east along the Gulf Coast before extending north along the Appalachian Valley into the Great Lakes region where cloud cover began to obscure visibility, preventing further analysis throughout the area.

October 30, 2024

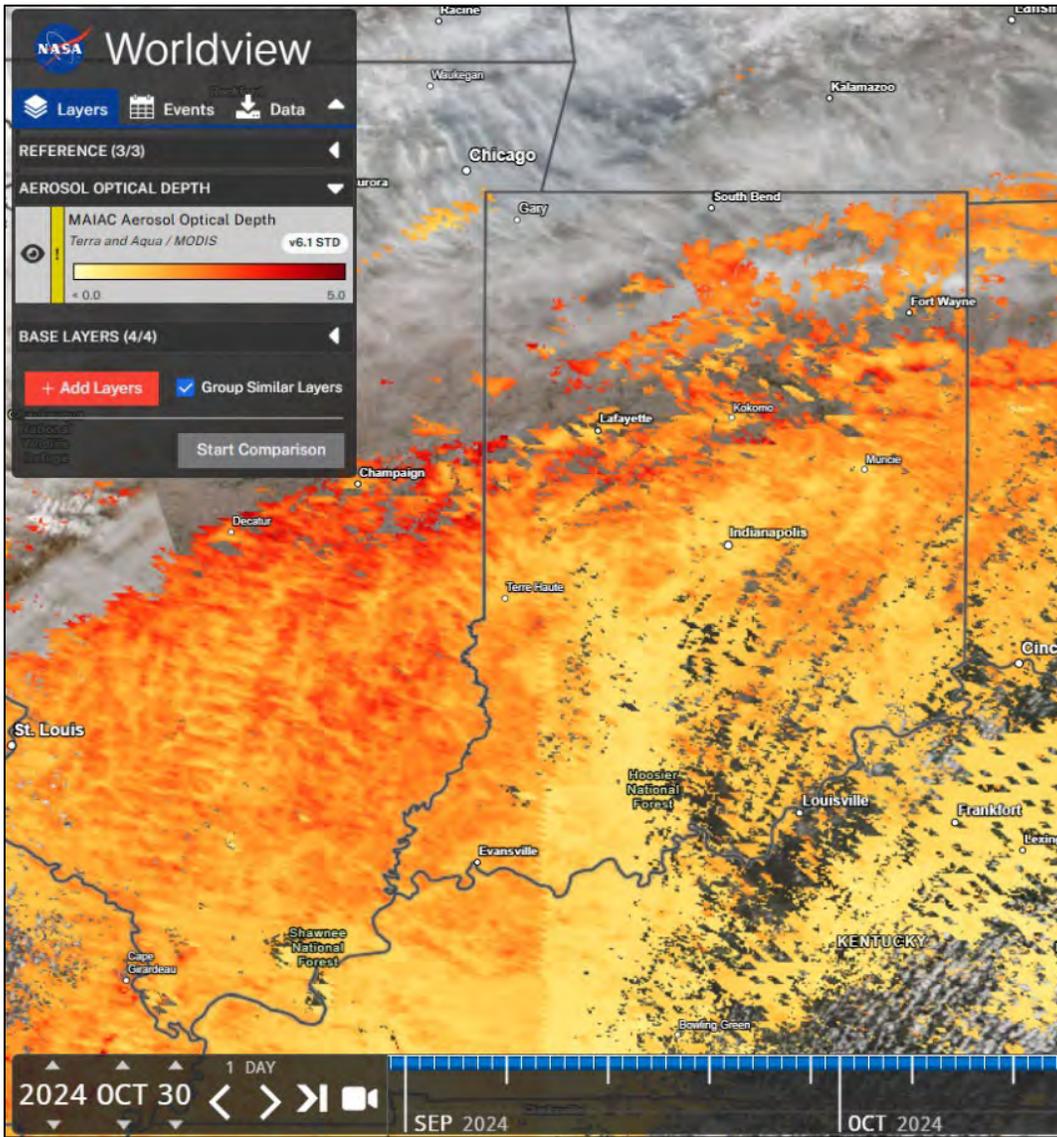
List of PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor name	AQS ID	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	10/30/2024	13.7	13.2

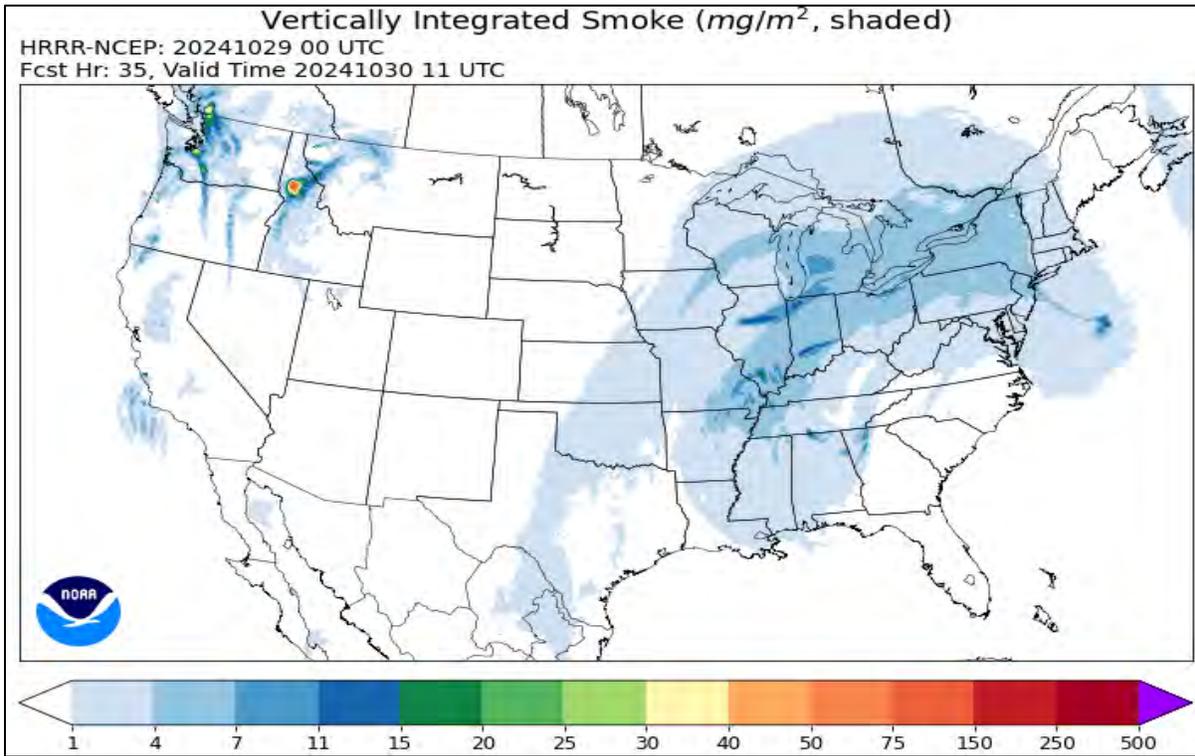
AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – October 30, 2024



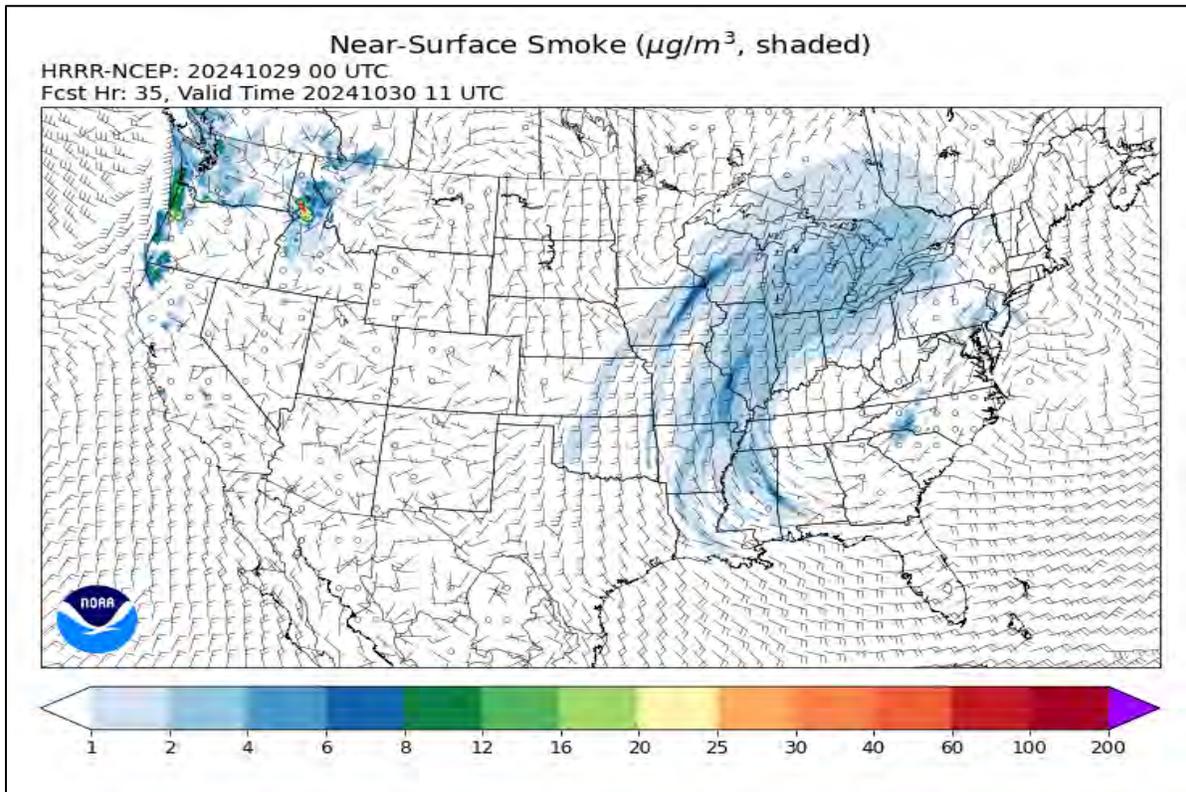
Satellite Imagery with MAIAC AOD – October 30, 2024



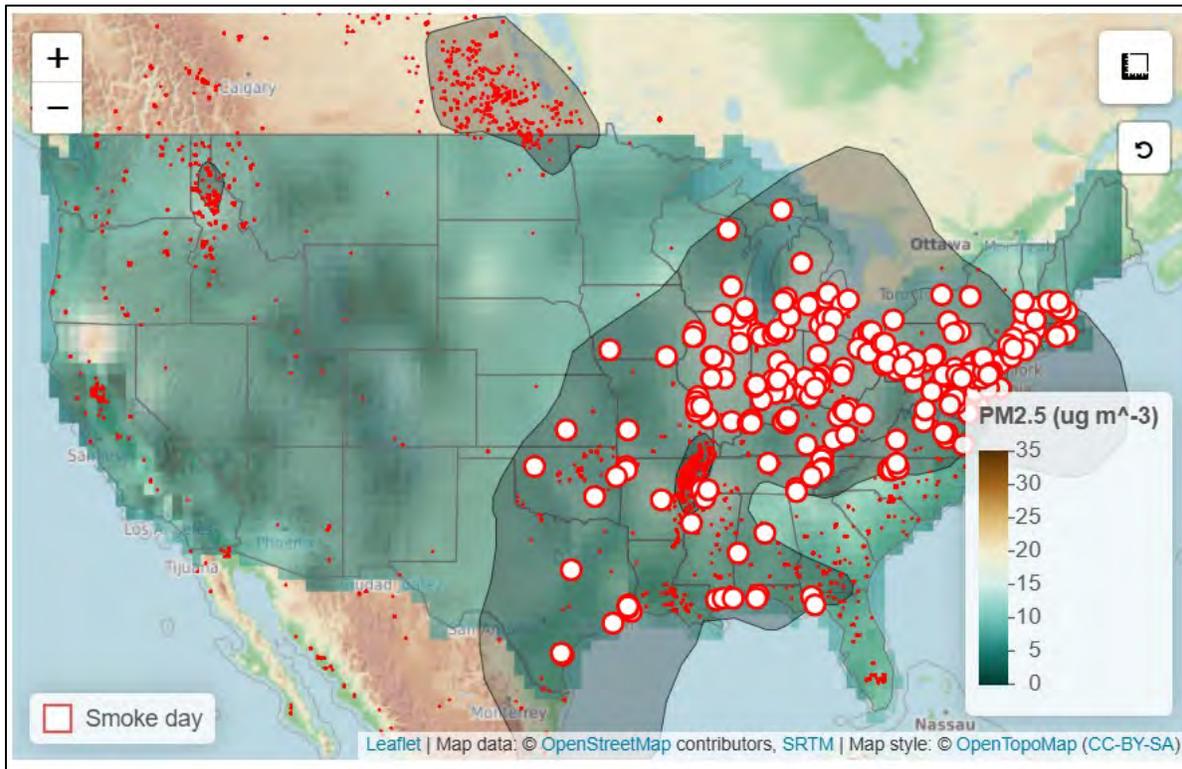
HRRR Smoke - Vertically Integrated Smoke – October 30, 2024



HRRR Smoke – Near Surface Smoke – October 30, 2024



GAM PMO3 Smoke Output – October 30, 2024



NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

Wednesday, October 30, 2024

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1600Z October 30, 2024

SMOKE:

Southeastern United States/Gulf Coast/Great Lakes Region/Southern Ontario...

A layer of light-to-moderate density remnant smoke attributed to seasonal agricultural burning along the Mississippi River and throughout the Southeastern United States continues to be observed this morning. This mixed density smoke was seen stretching southeastward from Iowa and Nebraska, through the Lower Mississippi River Basin, continuing east along the Gulf Coast before extending north along the Appalachian Valley into the Great Lakes region and southern Ontario where it then was seen moving east into the northern Atlantic Ocean. Moderate density smoke was seen near the Lower Mississippi River Basin where a significant amount of seasonal burning is currently taking place.