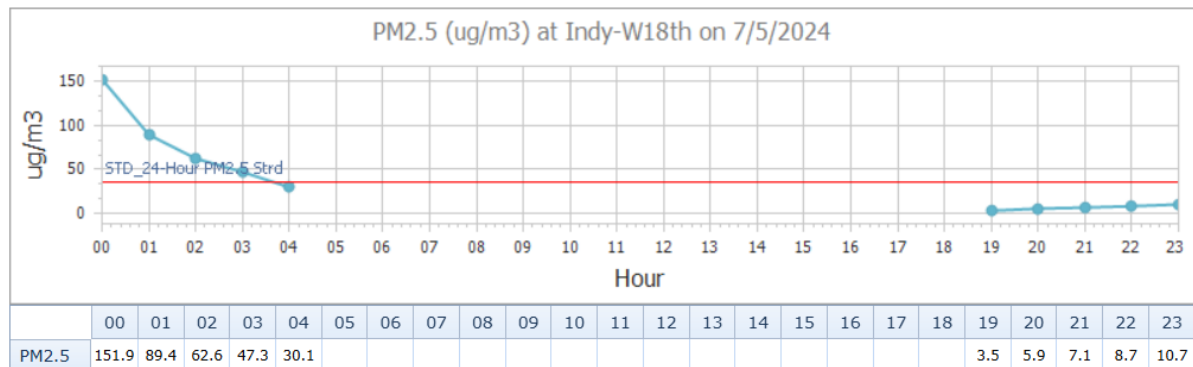
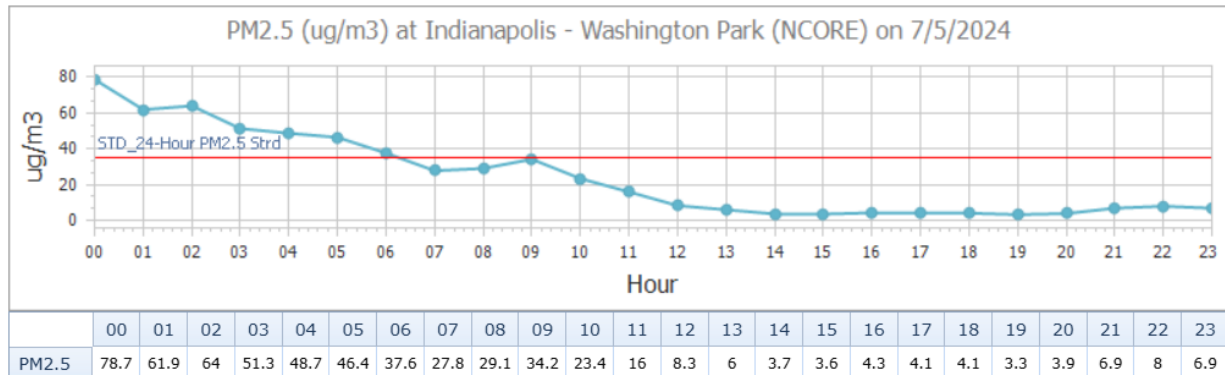
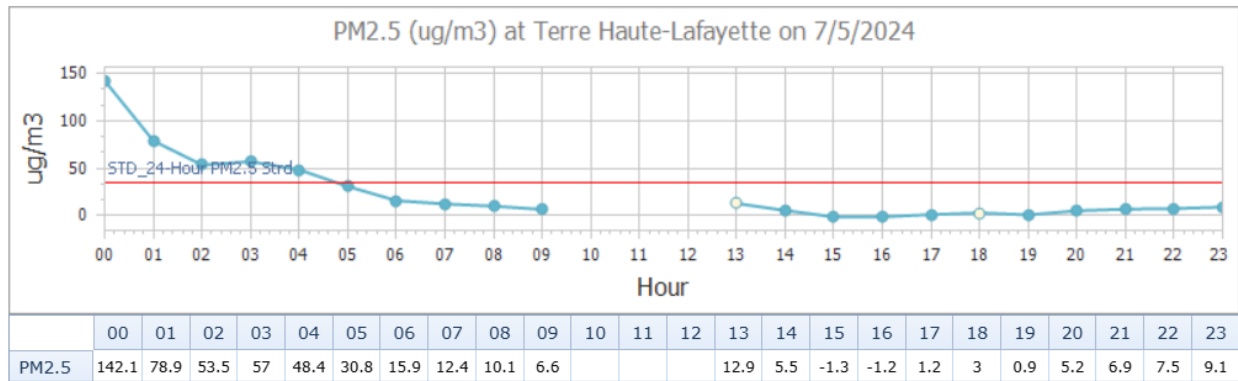
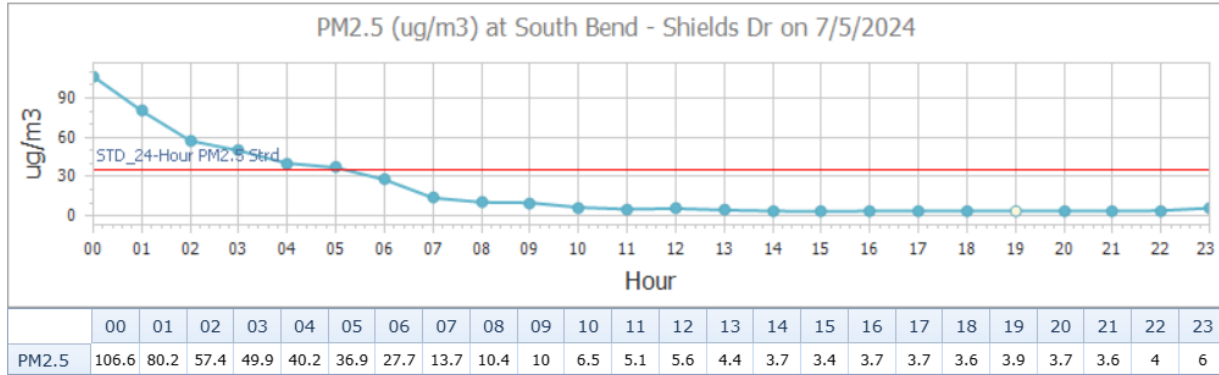


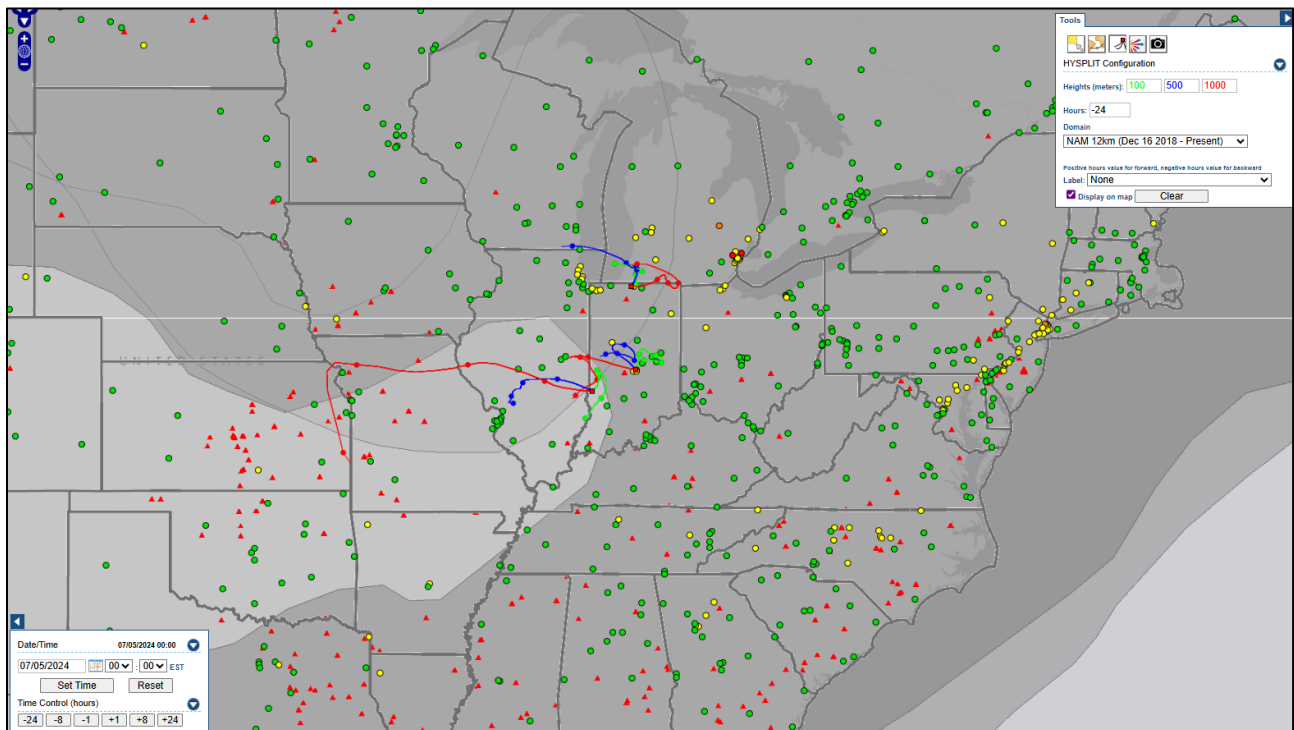
**July 5, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Firework Smoke**

| Monitor name                   | AQS       | Date     | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|--------------------------------|-----------|----------|------------------------------------|---------------------------------------|
| Fishers                        | 180570007 | 7/5/2024 | 14.1                               | 13.8                                  |
| Gary - Madison St              | 180890031 | 7/5/2024 | 18.3                               | 16                                    |
| Indianapolis - Washington Park | 180970078 | 7/5/2024 | 24.2                               | 17.8                                  |
| Indianapolis - W. 18th St.     | 180970081 | 7/5/2024 | 28.0                               | 20.9                                  |
| Indianapolis - School 21       | 180970084 | 7/5/2024 | 33.5                               | 15.5                                  |
| Indianapolis- I-70 E           | 180970087 | 7/5/2024 | 21.6                               | 20.5                                  |
| South Bend - Shields Dr.       | 181410015 | 7/5/2024 | 24.4                               | 16.9                                  |
| Terre Haute - Lafayette Ave    | 181670018 | 7/5/2024 | 24.0                               | 18.8                                  |

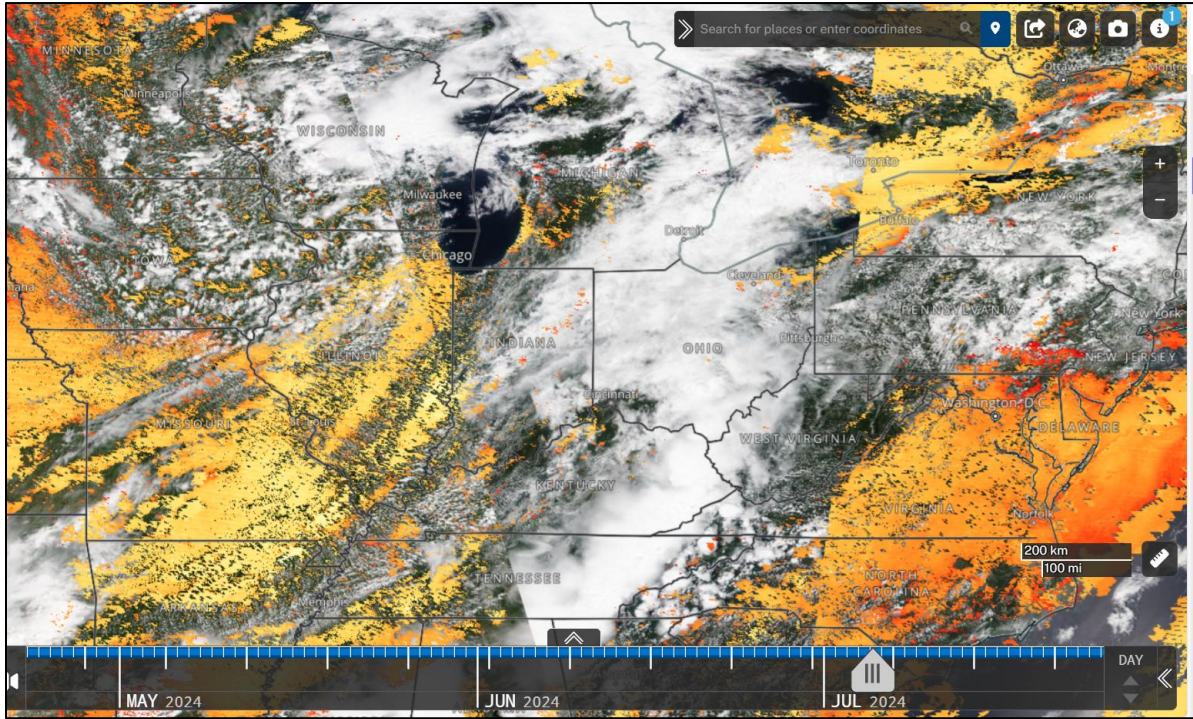
**Hourly PM<sub>2.5</sub> Concentrations for July 5, 2024**



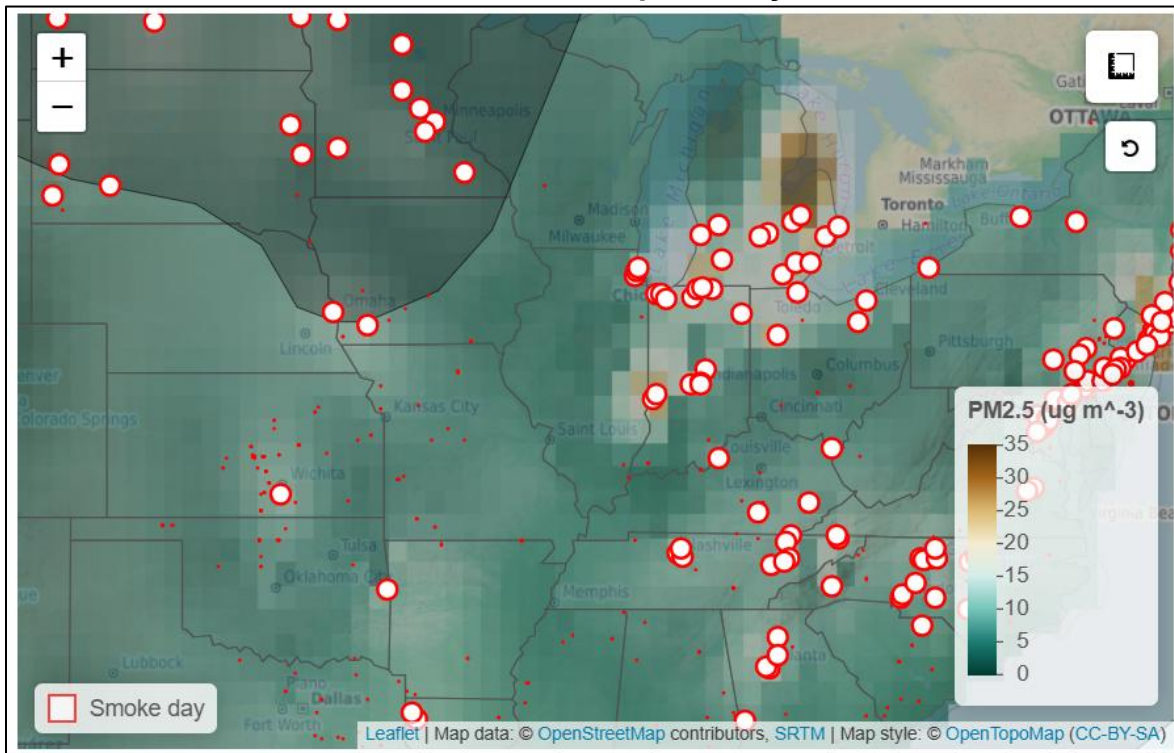
### AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – July 5, 2024



## Satellite Imagery with MAIAC AOD – July 5, 2024



## GAM PMO3 Smoke Output – July 5, 2024



**NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts****Thursday, July 4, 2024**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 0100Z July 5, 2024

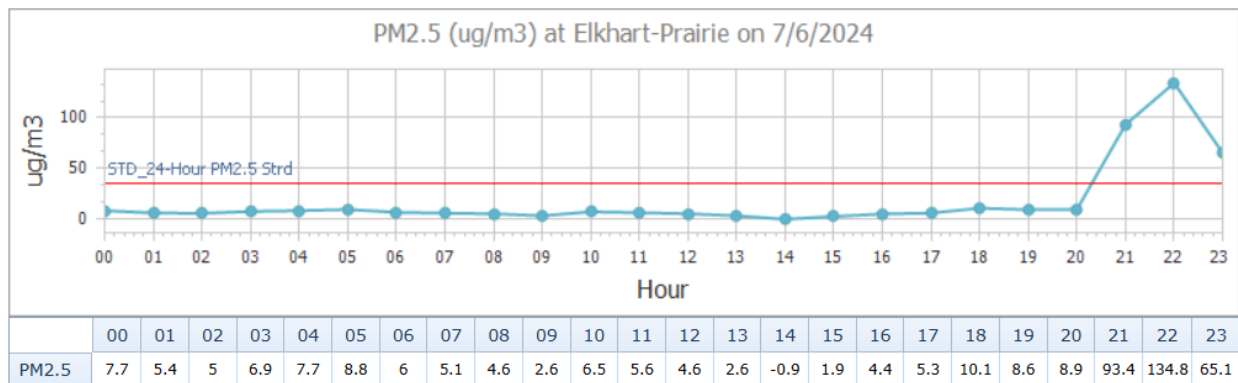
SMOKE:

Alaska/Canada/Eastern United States/Gulf of Mexico...

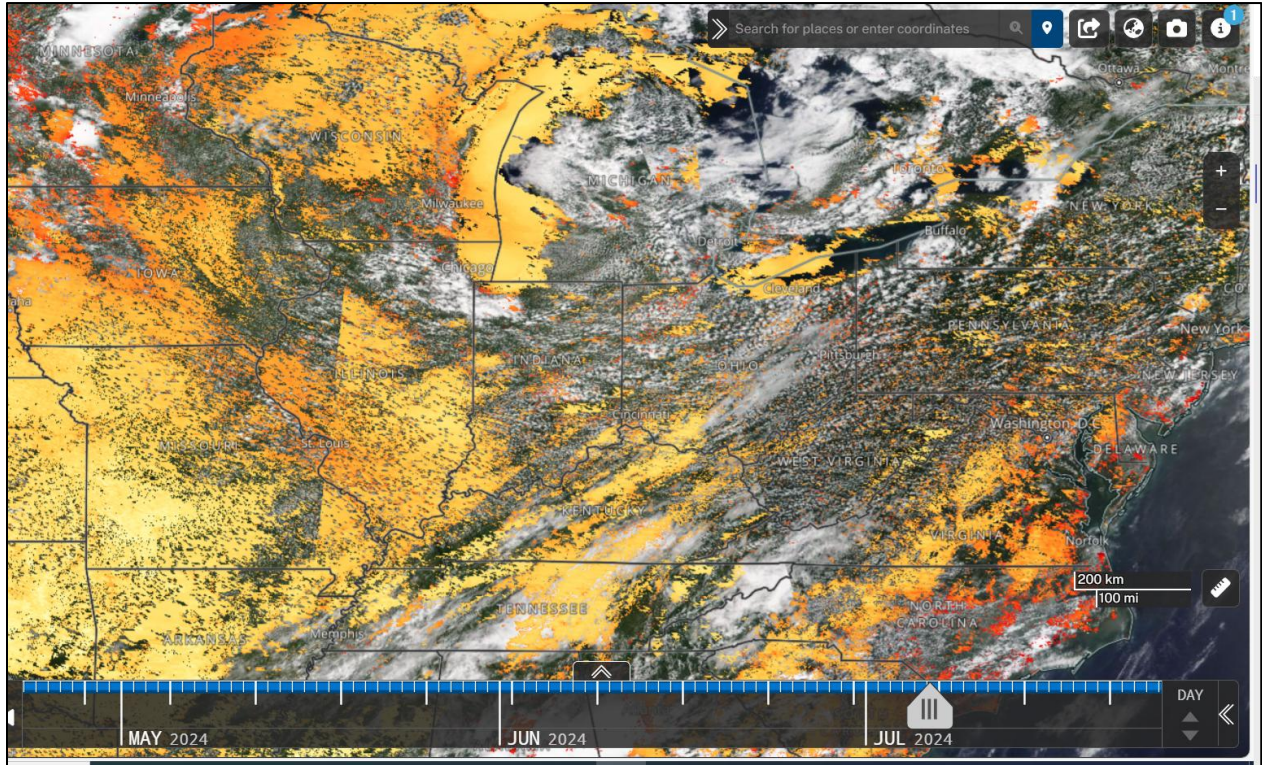
A large area of light smoke attributed to numerous wildfires throughout Alaska and Northern Canada continues to be seen today covering the area from the Bering Sea east over Canada, through the Labrador Sea and reaching Greenland. Light smoke extended further south on the eastern side of the continent and offshore Atlantic, covering most of the eastern United States, Gulf States, and east coast of Mexico and the western Gulf of Mexico. Large, concentrated fires throughout central Alaska, the Northwest Territories, northeast British Columbia and northern Alberta continue to produce moderate to thick density smoke that can be seen throughout central Canada. The smoke upon reaching south, mingled with smoke produce the large wildfires in the western U.S, where it engulfed most of the southwestern U.S and California. Cloud cover in the region prevented further detailed analysis.

**July 6, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

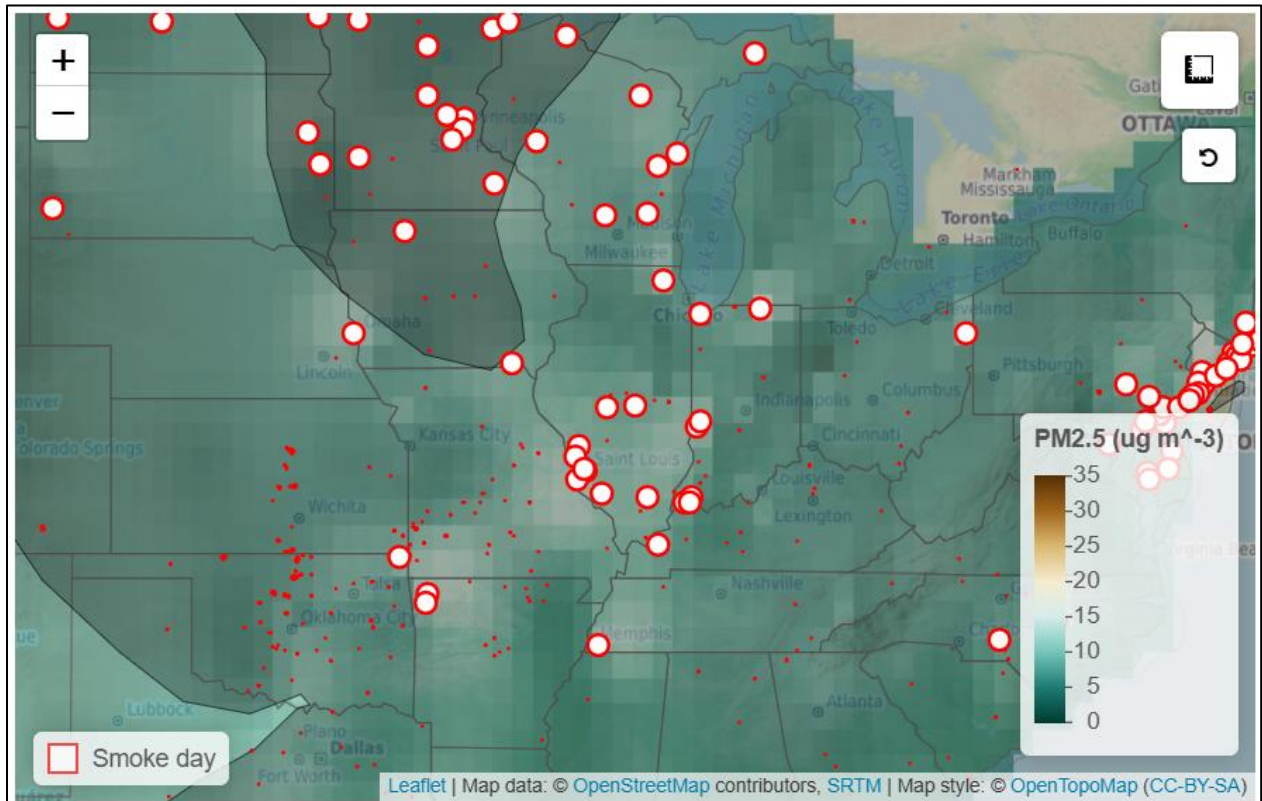
| Monitor name         | AQS       | Date     | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|----------------------|-----------|----------|------------------------------------|---------------------------------------|
| Elkhart - Prairie St | 180390008 | 7/6/2024 | 17.1                               | 16.3                                  |

**Hourly PM<sub>2.5</sub> Concentrations for July 6, 2024**

## Satellite Imagery with MAIAC AOD – July 6, 2024



## GAM PMO3 Smoke Output – July 6, 2024



**NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts****Friday, July 5, 2024**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 0120Z July 6, 2024

SMOKE:

Alaska/Canada/Washington/Eastern United States/Gulf of Mexico...

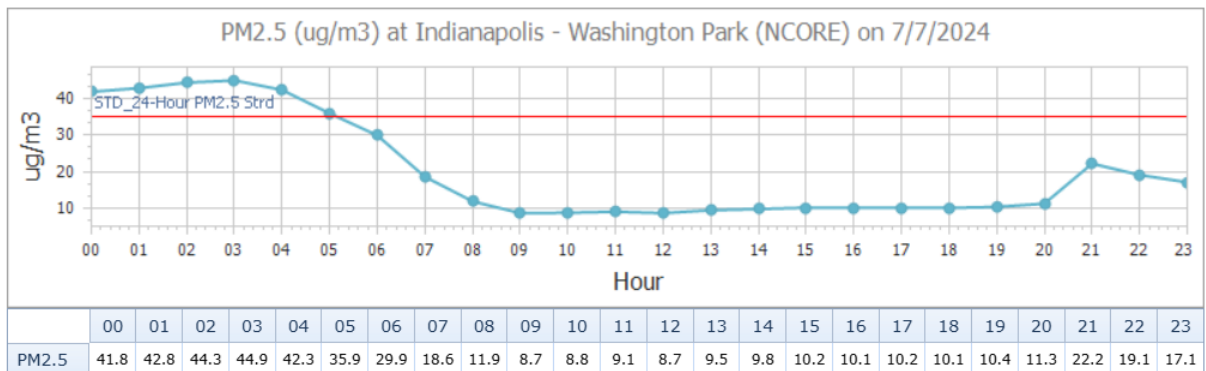
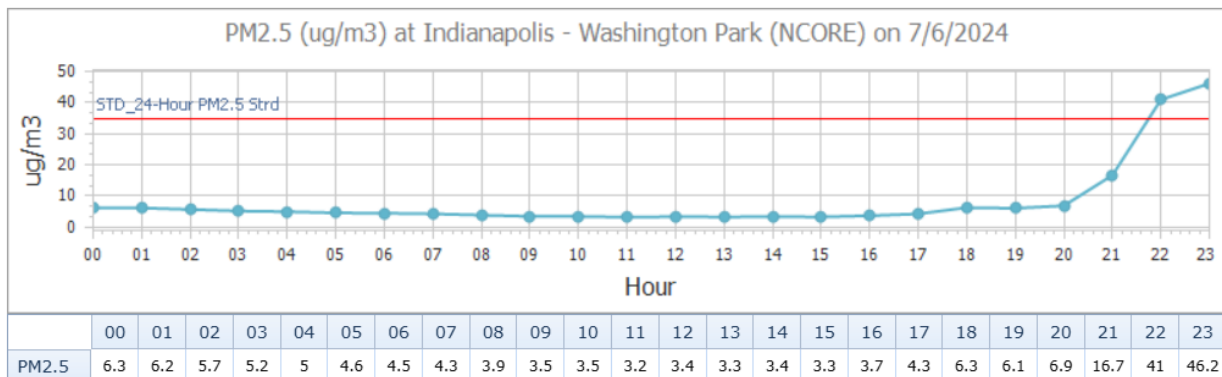
A large area of light smoke attributed to numerous recent wildfires throughout Alaska and Northern Canada continues to be seen today stretching from the Bering Sea east over Canada and reaching Greenland. Light smoke extended south over much of Washington state, the Midwestern states, and continued south along the east coast and offshore Atlantic, covering most of the eastern United States, Gulf coast, the east coast of Mexico, the northwestern Gulf of Mexico and well into the Atlantic Ocean off the coast of Europe.

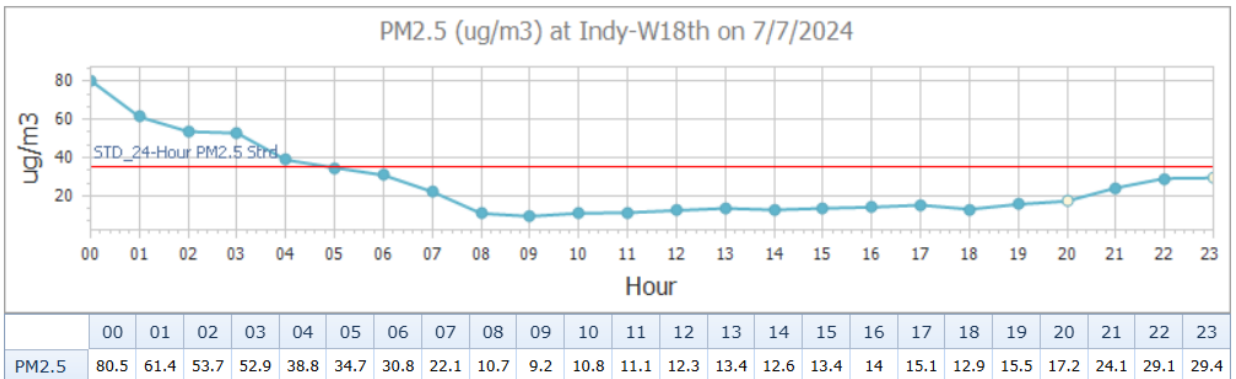
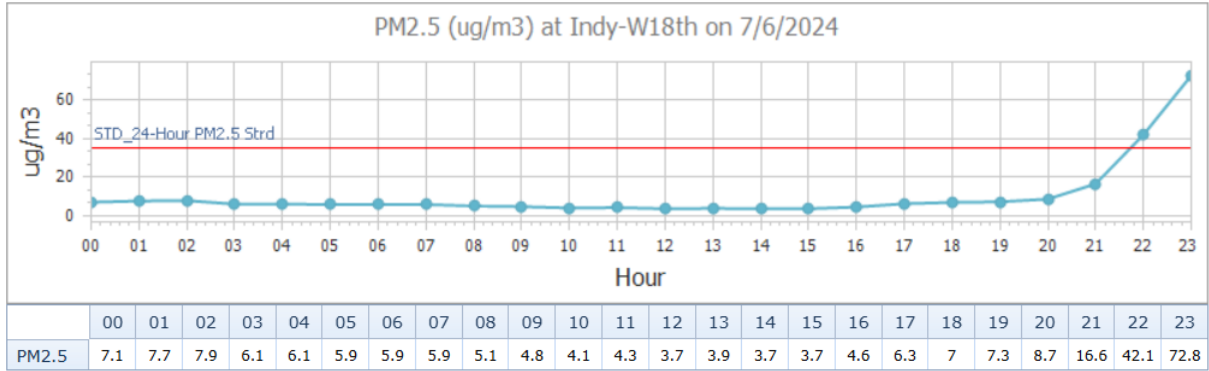
# July 7, 2024

## PM<sub>2.5</sub> Monitoring Sites Impacted by Firework Smoke

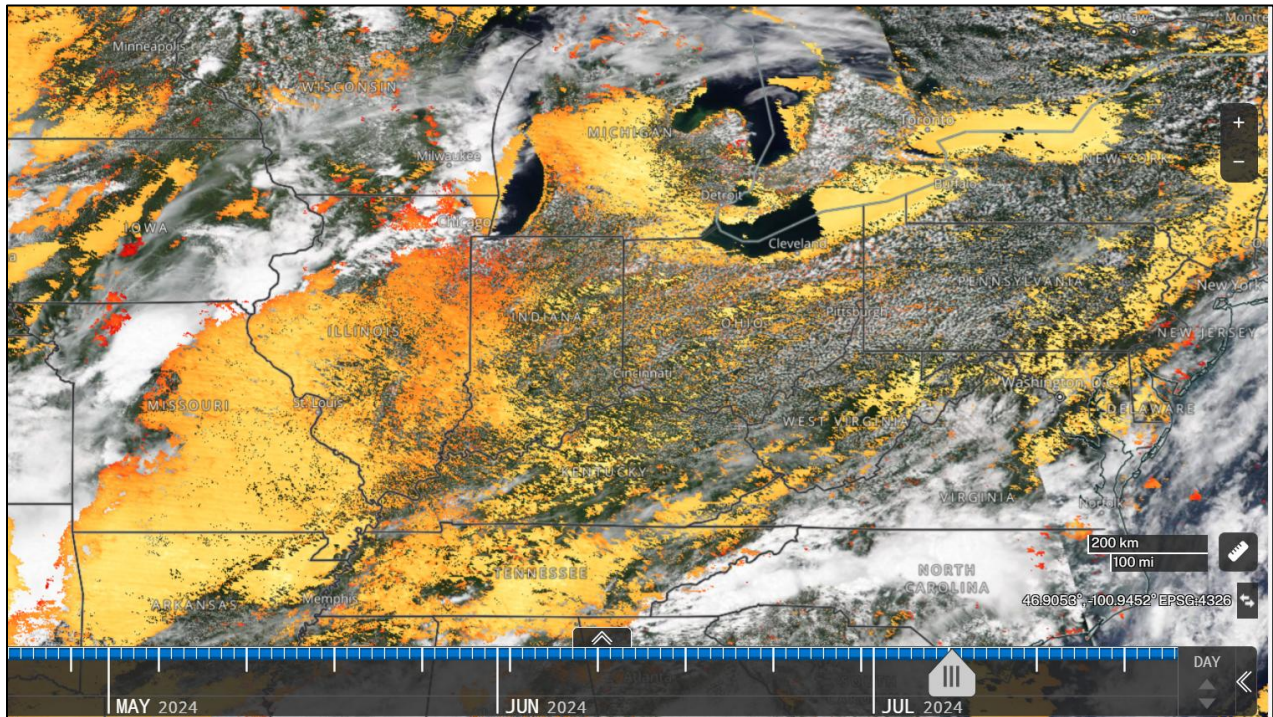
| Monitor name                   | AQS       | Date     | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|--------------------------------|-----------|----------|------------------------------------|---------------------------------------|
| Indianapolis - Washington Park | 180970078 | 7/7/2024 | 20.3                               | 17.8                                  |
| Indianapolis - W. 18th St.     | 180970081 | 7/7/2024 | 26.0                               | 20.9                                  |
| Indianapolis- I-70 E           | 180970087 | 7/7/2024 | 21.4                               | 20.5                                  |
| Evansville - Buena Vista       | 181630021 | 7/7/2024 | 17.9                               | 15.1                                  |
| Terre Haute - Lafayette Ave    | 181670018 | 7/7/2024 | 22.5                               | 18.8                                  |

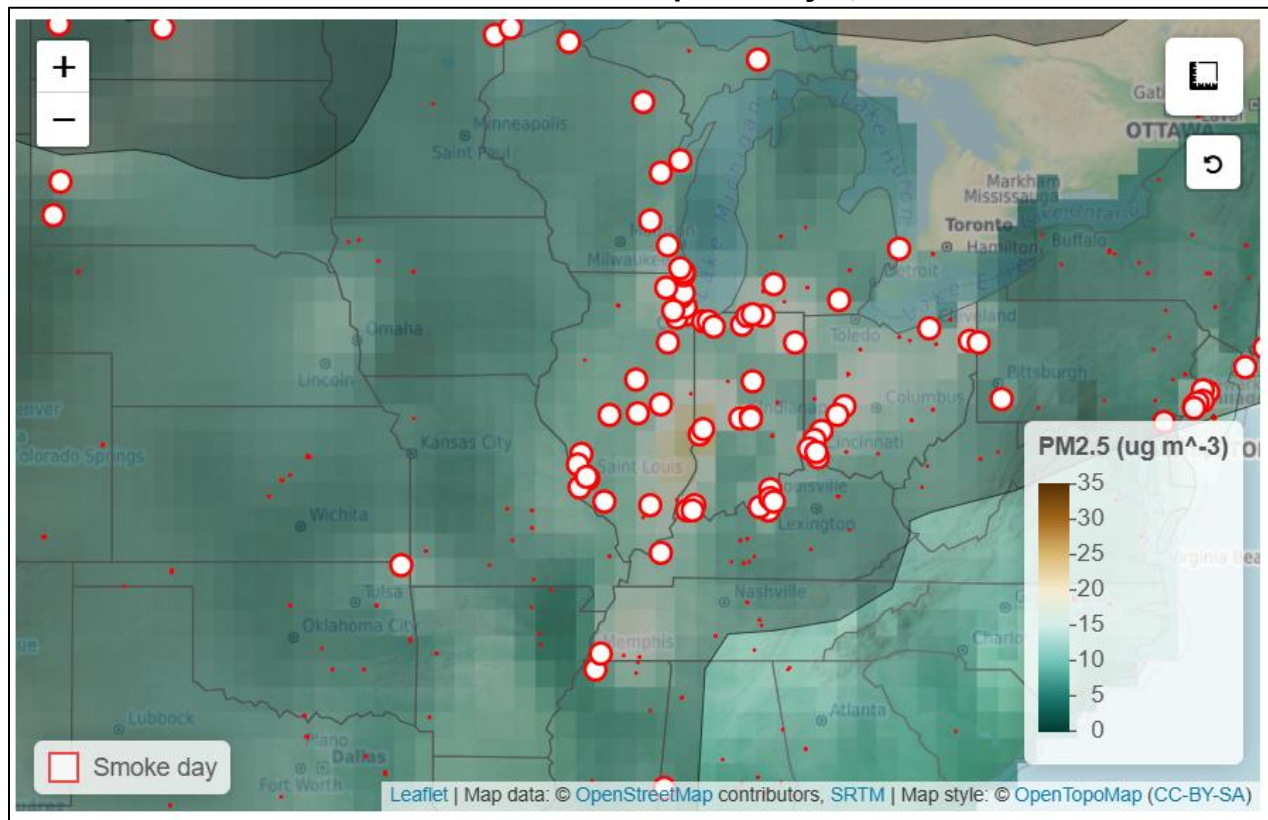
## Hourly PM<sub>2.5</sub> Concentrations for July 7, 2024





### Satellite Imagery with MAIAC AOD – July 7, 2024



**GAM PMO3 Smoke Output – July 7, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY

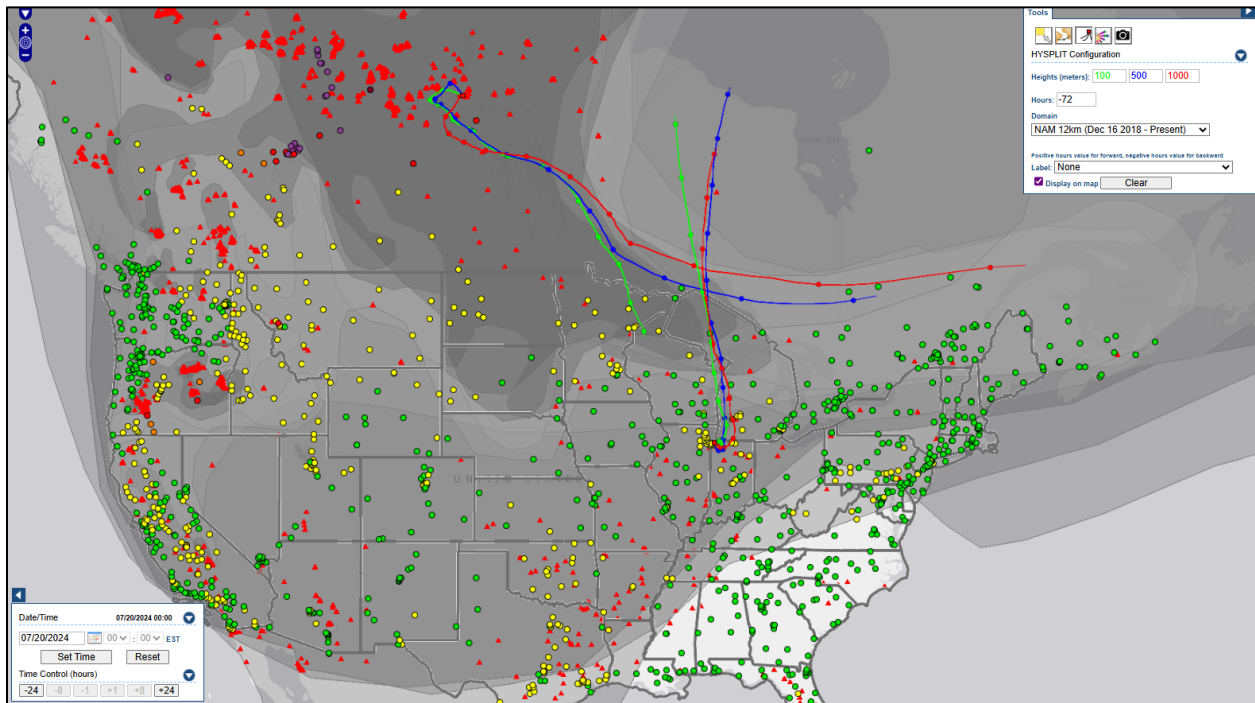
SMOKE:

Central and Eastern United States/Atlantic Seaboard...

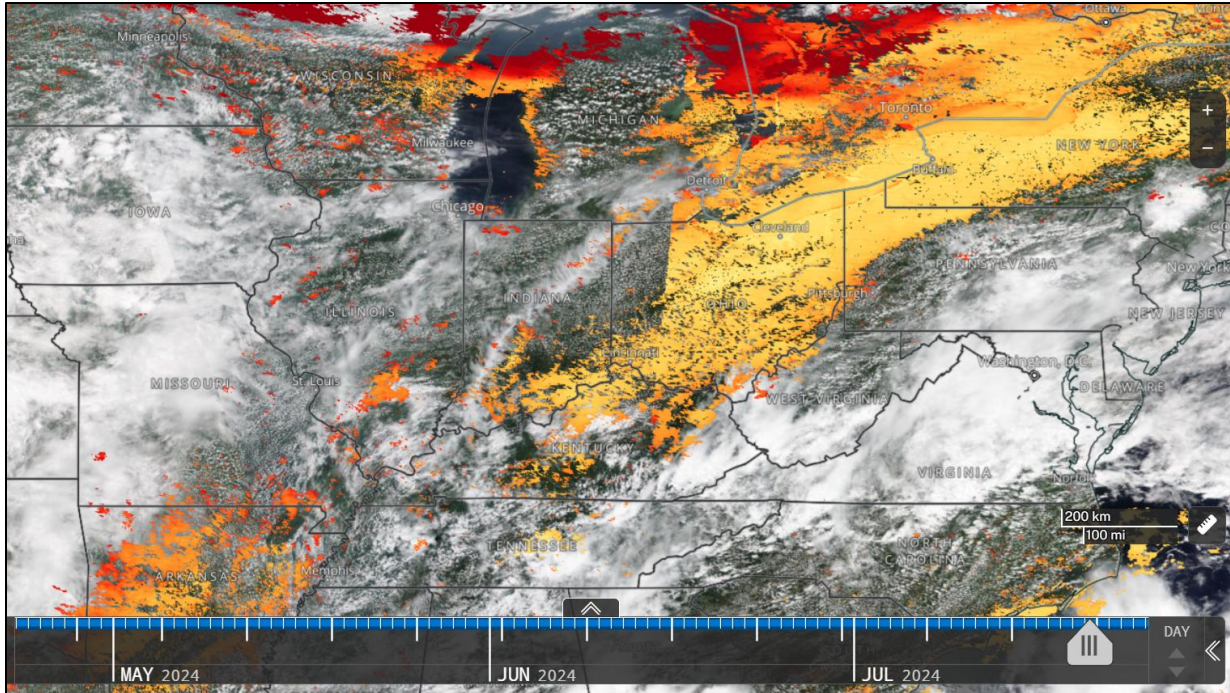
A large area of light density smoke attributed to a combination of smoke from large wildfires in northwestern Canada and seasonal fire activity covered a large portion of the Central and eastern United States. This area of light density smoke was observed dispersing eastward off the East Coast of the U.S. into the Atlantic Ocean.

**July 20, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

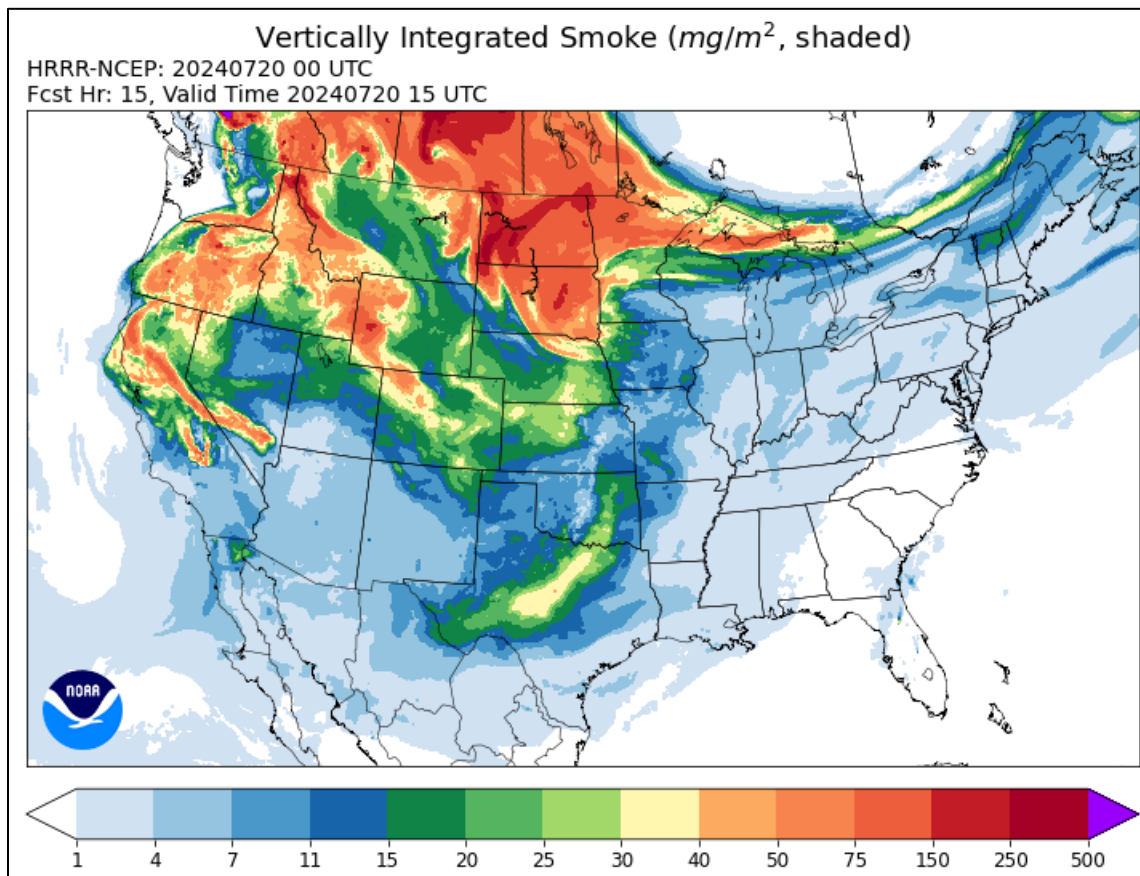
| Monitor name | AQS       | Date      | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|--------------|-----------|-----------|------------------------------------|---------------------------------------|
| Ogden Dunes  | 181270024 | 7/20/2024 | 16.5                               | 15.3                                  |

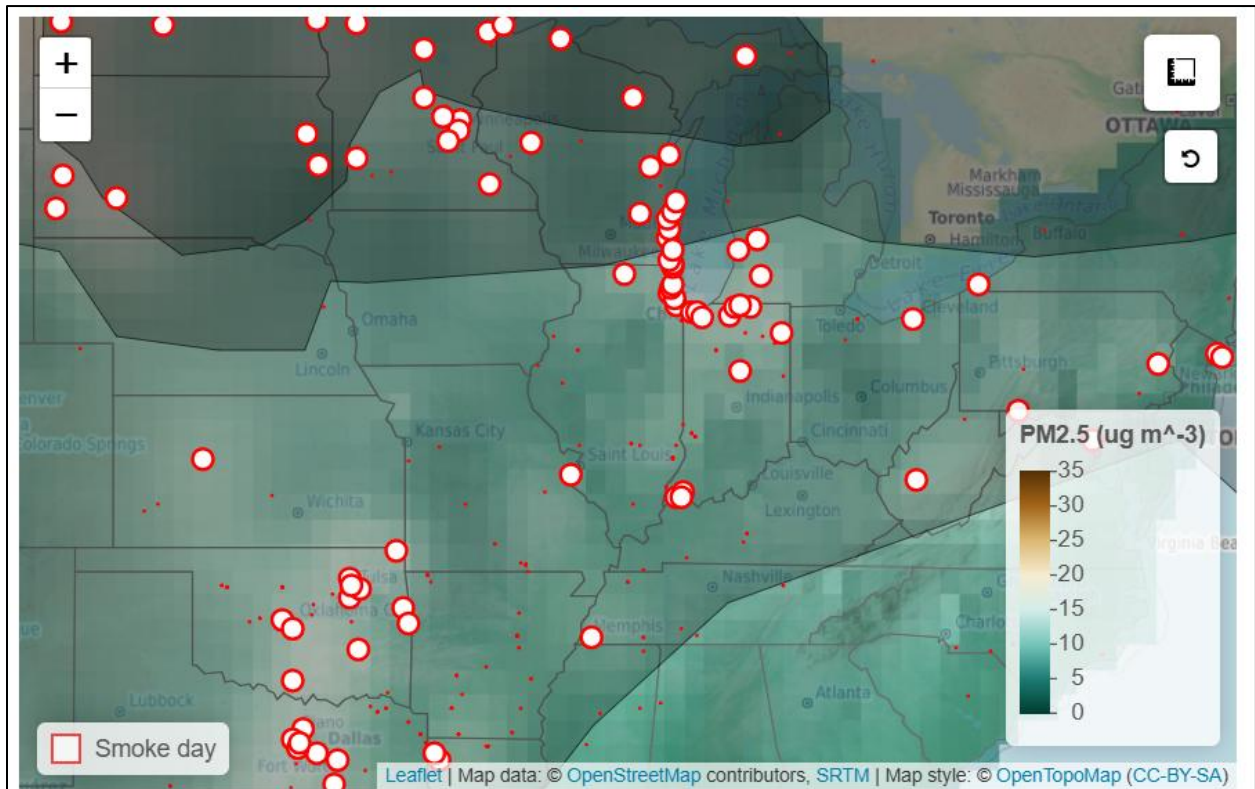
**AirNow Tech Fire/HMS Smoke Map with Forward/Backward Trajectories – July 20, 2024**

## Satellite Imagery with MAIAC AOD – July 20, 2024



## HRRR Smoke - Vertically Integrated Smoke – July 20, 2024



**GAM PMO3 Smoke Output – July 20, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts****Friday, July 19, 2024**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 2300Z July 19, 2024

SMOKE:

Canada/United States/Atlantic Ocean...

As observed in the morning and continuing into the evening, a significant amount of mixed density smoke attributed to a combination of seasonal fire activity in Canada and the United States has produced a large mass of observable smoke. The smoke has continued extending through Northeastern province of British Columbia and mixing with smoke from various regional wildfires. The large mass of smoke (ranging from light to heavy density) has continued to stretch across the northern continental plain before dispersing into the Atlantic Ocean. Thick density smoke was mostly contained in Canada and parts of northern U.S. As the mass moved towards

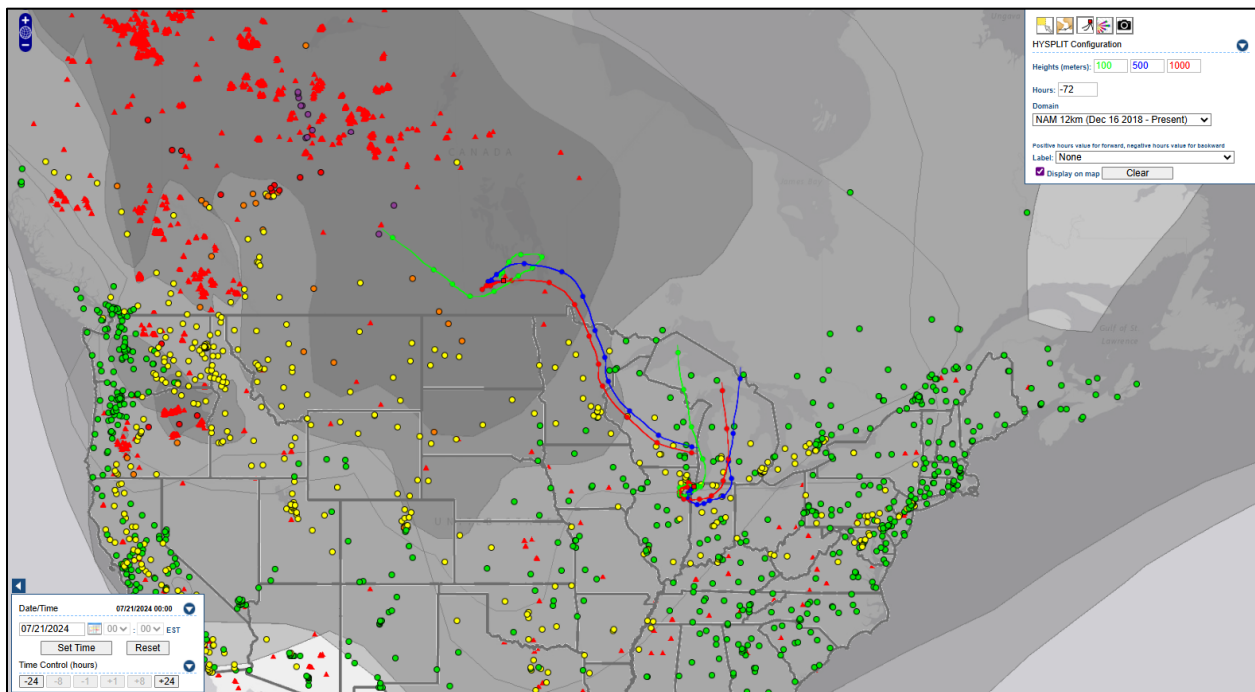
the east, light to moderate density smoke was observed dispersing down from Canada into the USA, with moderate smoke extending as far south as Texas.

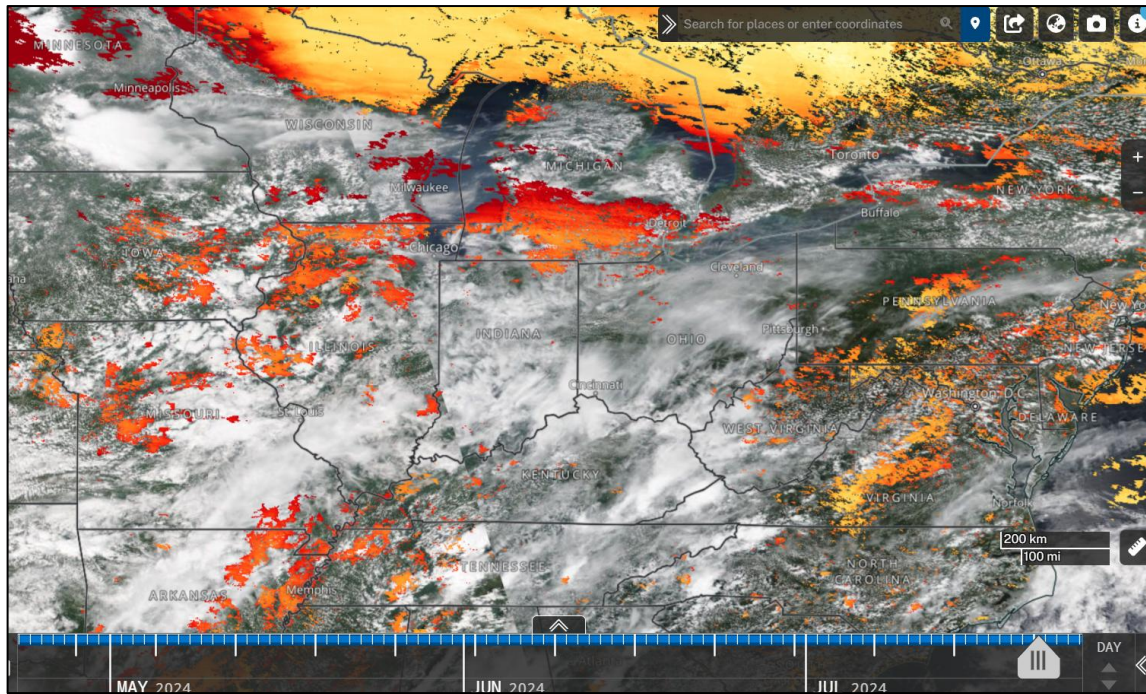
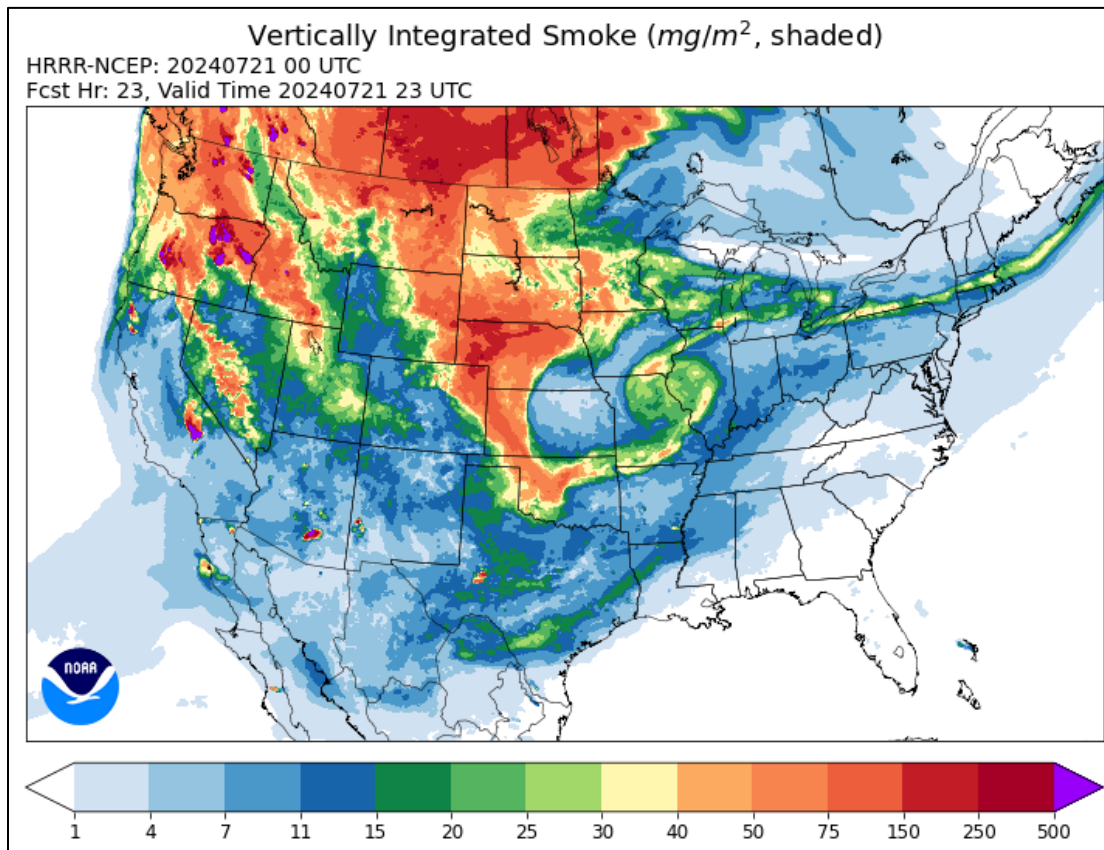
# July 21, 2024

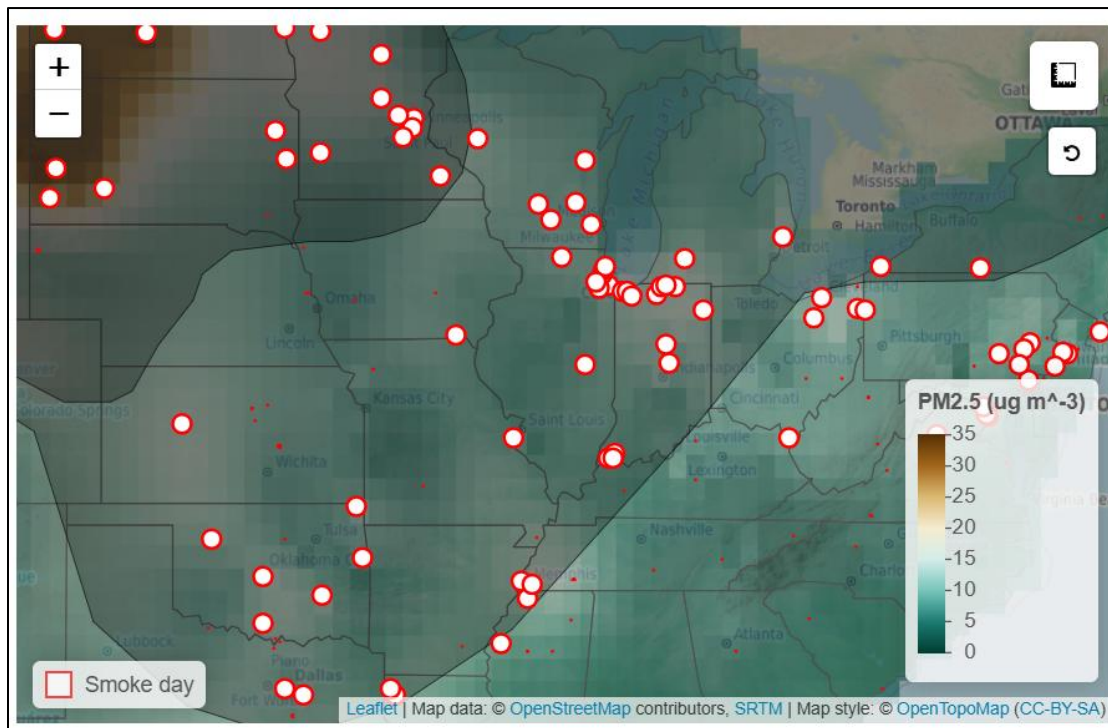
## PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

| Monitor name | AQS       | Date      | Daily average<br>( $\mu\text{g}/\text{m}^3$ ) | Tier 2<br>Threshold<br>( $\mu\text{g}/\text{m}^3$ ) |
|--------------|-----------|-----------|-----------------------------------------------|-----------------------------------------------------|
| Ogden Dunes  | 181270024 | 7/21/2024 | 16.0                                          | 15.3                                                |

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



**Satellite Imagery with MAIAC AOD – July 21, 2024****HRRR Smoke - Vertically Integrated Smoke – July 21, 2024**

**GAM PMO3 Smoke Output – July 21, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts****Sunday, July 21, 2024**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1630Z July 21, 2024

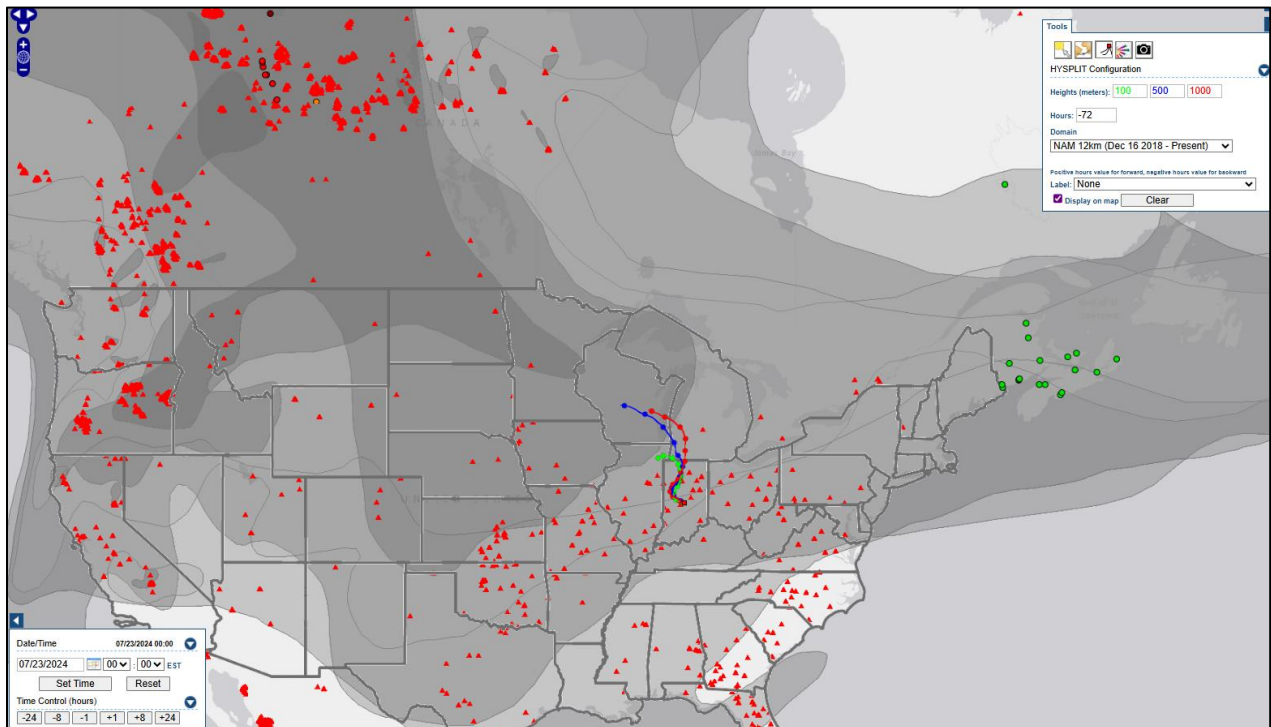
SMOKE:

Canada/United States/Atlantic Ocean...

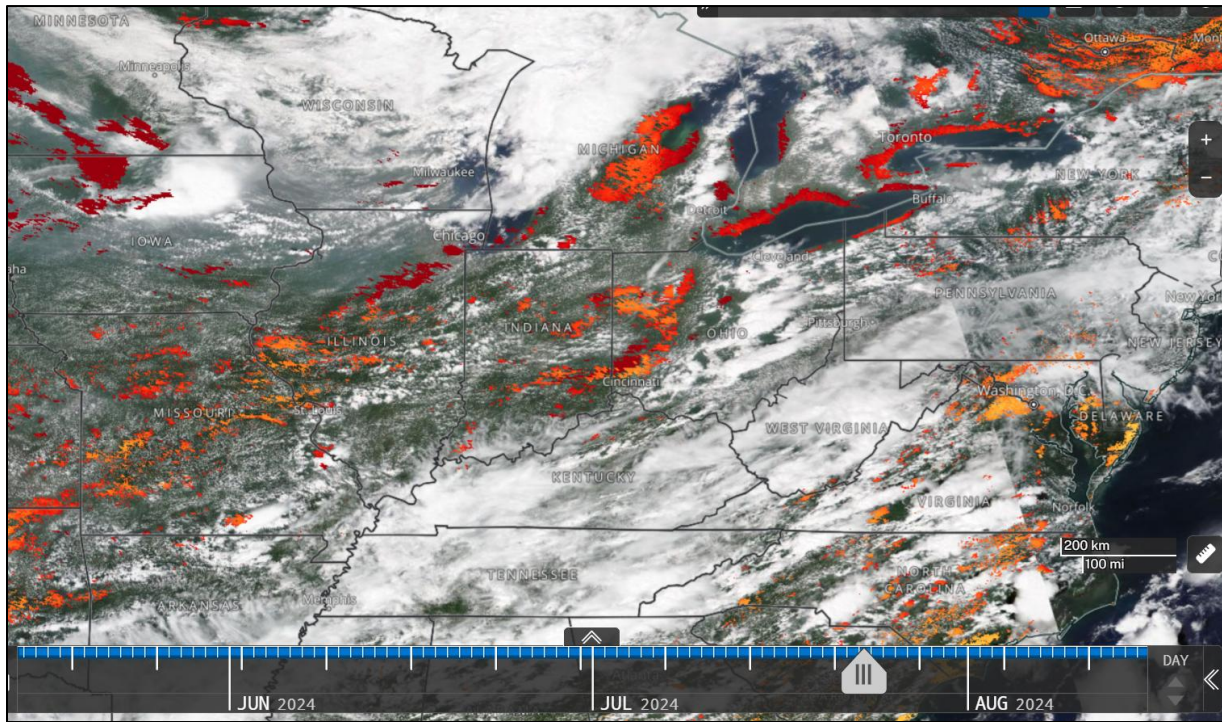
A significant amount of mixed density smoke attributed to a combination of seasonal fire activity in Canada and the United States continued to produce a large mass of observable smoke. The smoke has continued extending through Northeastern province of British Columbia and mixing with smoke from various regional wildfires. The large mass of smoke (ranging from light to heavy density) has continued to stretch across the northern continental plain before dispersing into the Atlantic Ocean. Thick density smoke was observed engulfing Canada and parts of northern U.S. As the mass moved towards the east, light to moderate density smoke was observed dispersing down from Canada into the USA, with moderate smoke extending as far south as Oklahoma.

**July 23, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

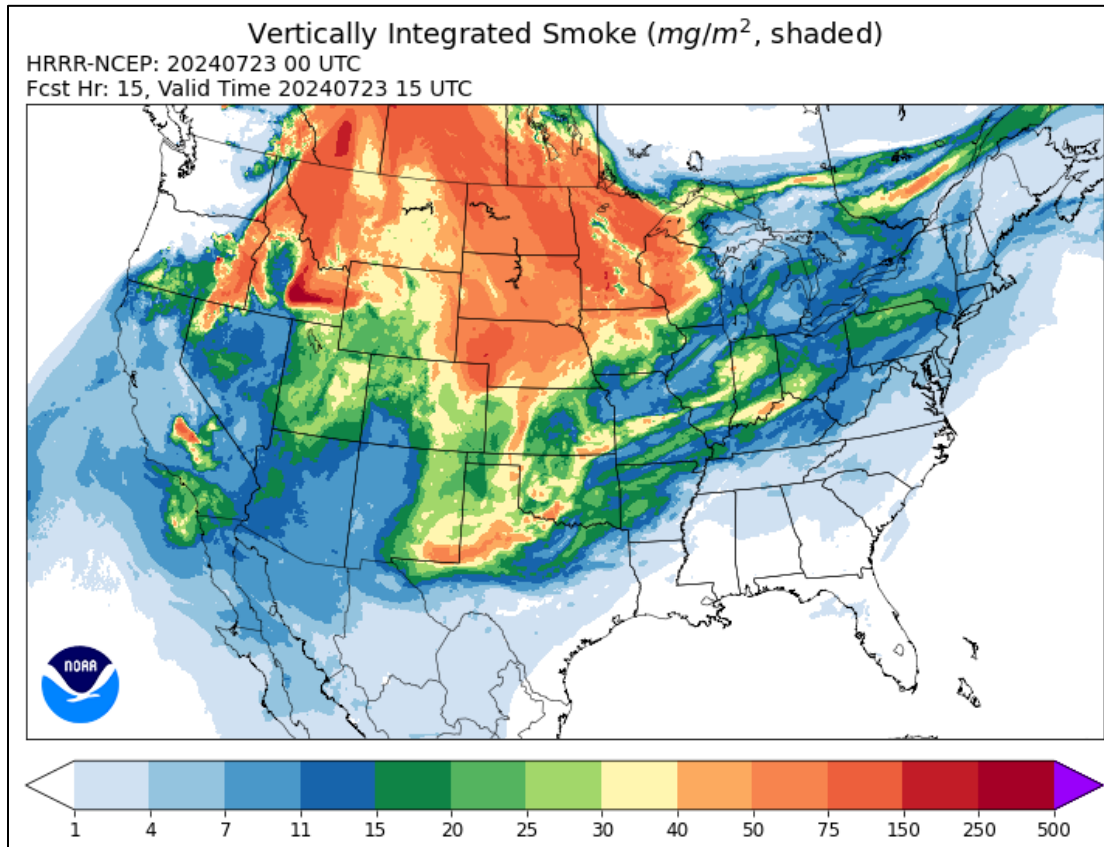
| Monitor Name                   | AQS       | Date      | Daily Average ( $\mu\text{g}/\text{m}^3$ ) | Tier 2 Threshold ( $\mu\text{g}/\text{m}^3$ ) |
|--------------------------------|-----------|-----------|--------------------------------------------|-----------------------------------------------|
| Indianapolis - Washington Park | 180970078 | 7/23/2024 | 18.0                                       | 17.8                                          |

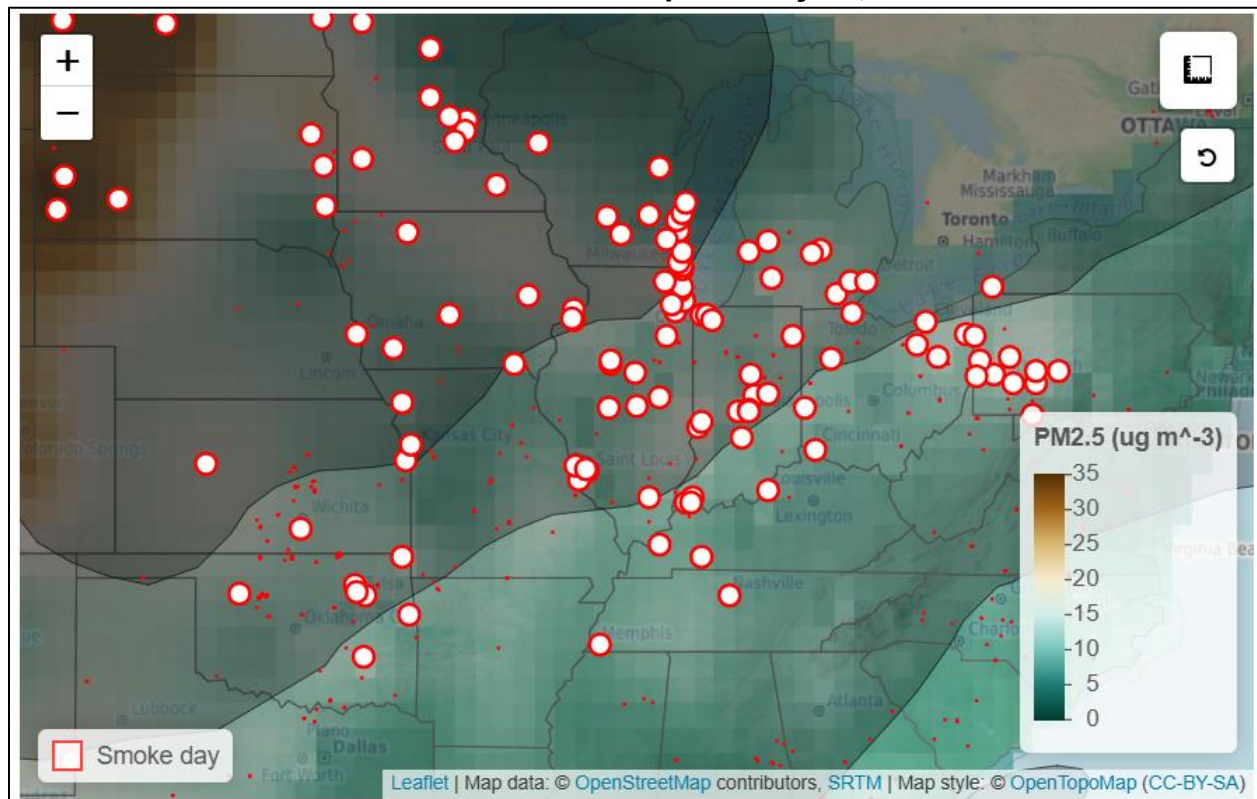
**AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – July 23, 2024**

## Satellite Imagery with MAIAC AOD – July 23, 2024



## HRRR Smoke - Vertically Integrated Smoke – July 23, 2024



**GAM PMO3 Smoke Output – July 23, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts****Monday, July 22, 2024**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 0050Z July 23, 2024

**SMOKE:**

Canada/United States/Atlantic Ocean...

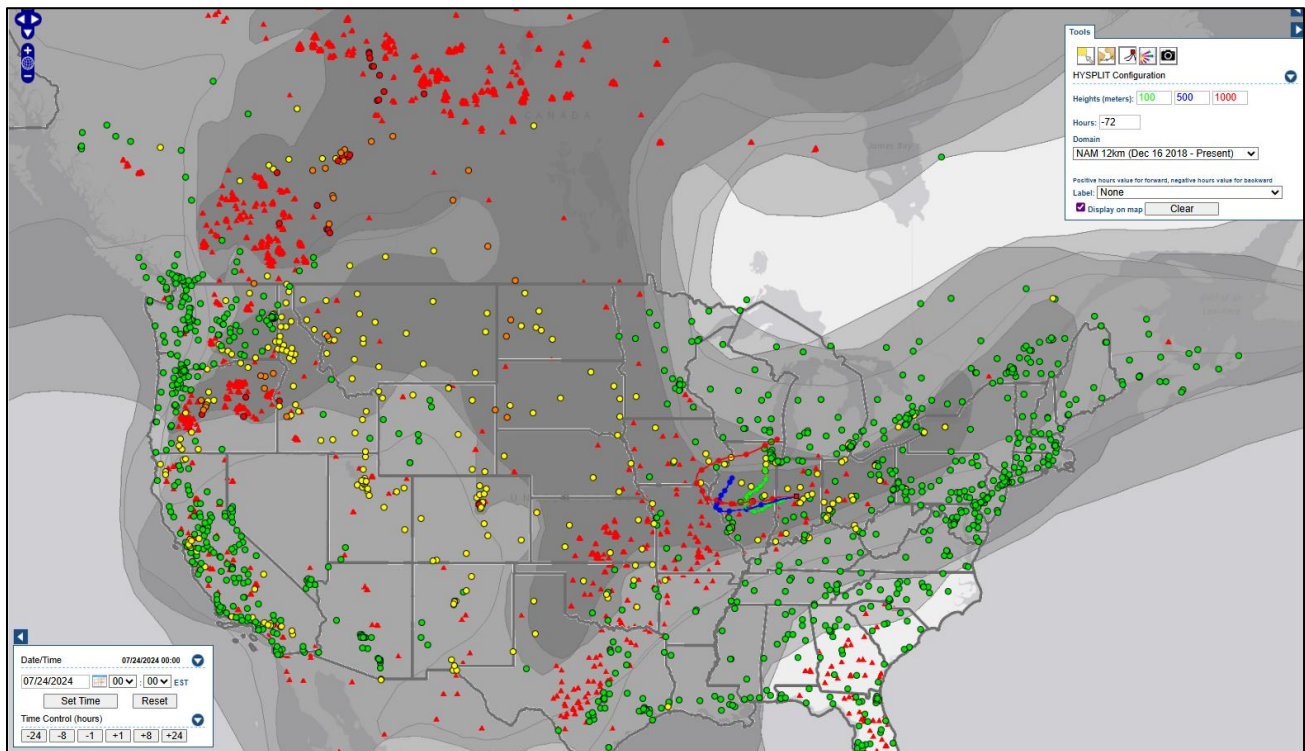
A significant amount of mixed density smoke attributed to a combination of numerous wildfires throughout the Pacific Northwest region and seasonal fire activity throughout the Continental United States continues to be observed today. Areas of moderate to thick density smoke were observed throughout the Pacific Northwest region, with the thickest smoke concentrated in the northern parts of British Columbia and Alberta and areas in the southern region of the Northwest Territories. This thick density smoke began to dissipate as it moved southeast across Alberta and Saskatchewan, becoming more moderate in density as it moved into the North Central and Great Lakes region of the United States while a band of moderate smoke continued extending to the east through Quebec before dispersing into the northern Atlantic Ocean. Areas of light to moderate density smoke were seen throughout the majority of the United States, with areas of moderate density smoke concentrated throughout the North Central and Pacific Northwest regions.

# July 24, 2024

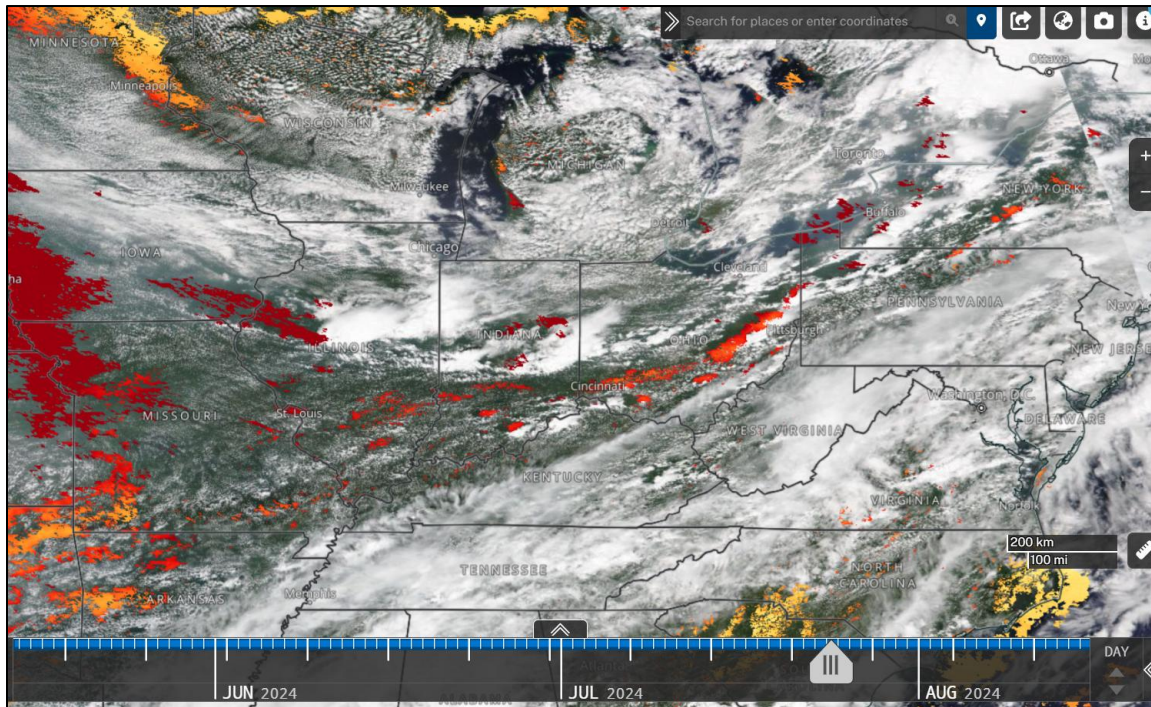
## PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

| Monitor name             | AQS       | Date      | Daily average ( $\mu\text{g}/\text{m}^3$ ) | Tier 2 Threshold ( $\mu\text{g}/\text{m}^3$ ) |
|--------------------------|-----------|-----------|--------------------------------------------|-----------------------------------------------|
| Muncie - Central HS      | 180350006 | 7/24/2024 | 17.2                                       | 13.2                                          |
| Fishers                  | 180570007 | 7/24/2024 | 14.6                                       | 13.8                                          |
| Kokomo - E. Vaile Ave    | 180670004 | 7/24/2024 | 16.6                                       | 14.7                                          |
| Lafayette - Greenbush St | 181570008 | 7/24/2024 | 16.0                                       | 15.1                                          |

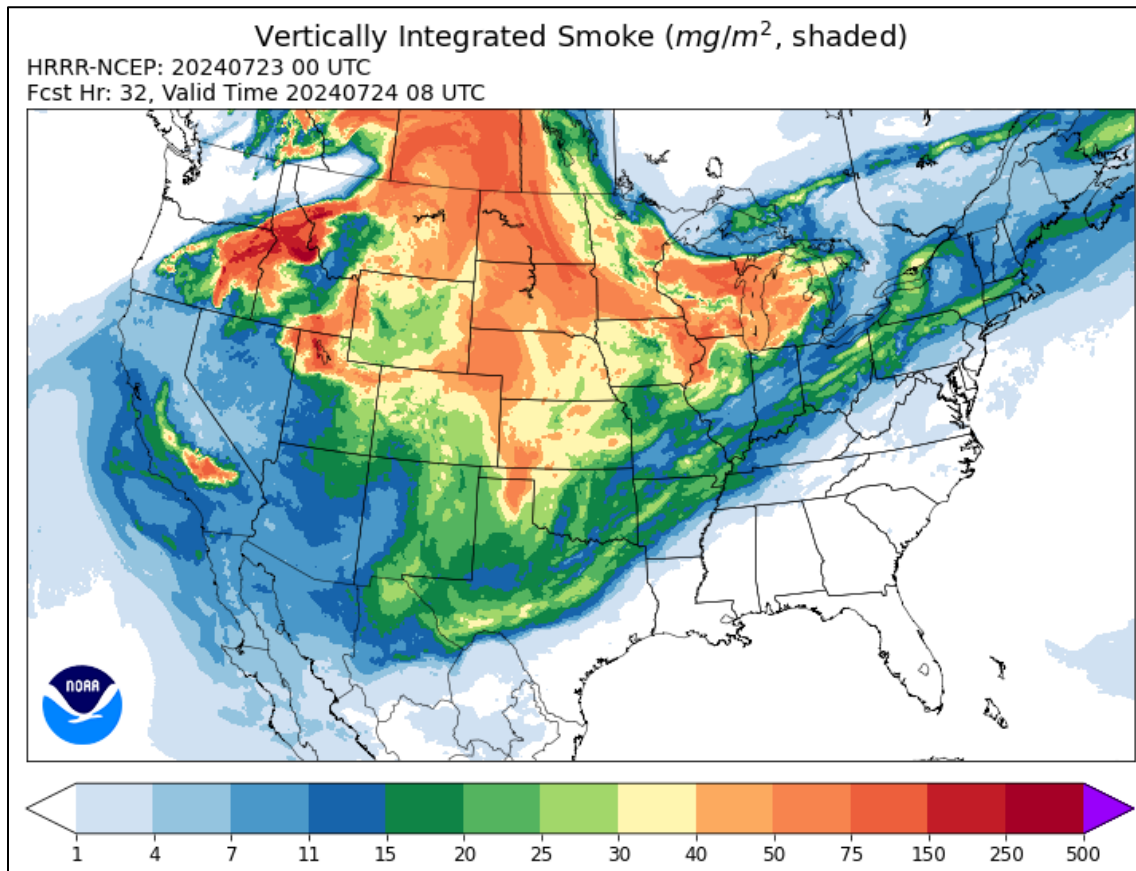
## AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – July 24, 2024

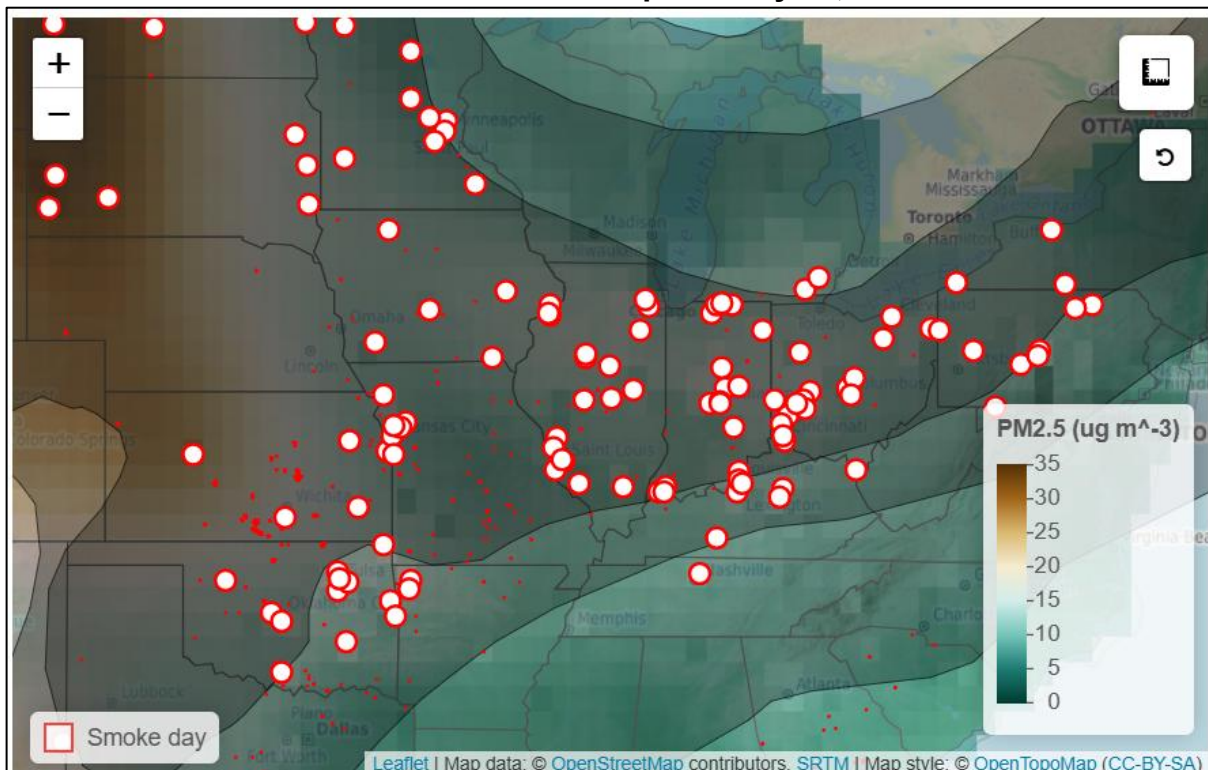


## Satellite Imagery with MAIAC AOD – July 24, 2024



## HRRR Smoke - Vertically Integrated Smoke – July 24, 2024



**GAM PMO3 Smoke Output – July 24, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts****Tuesday, July 23, 2024**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 0130Z July 24, 2024

SMOKE:

Canada/United States/Atlantic Ocean...

A significant amount of mixed density smoke attributed to a combination of numerous wildfires in northern Canada and the Pacific Northwest region and seasonal fire activity throughout the Continental United States continues to be observed today. Areas of light density smoke were seen throughout the majority of the United States, with areas of moderate density smoke concentrated throughout the North Central and Pacific Northwest regions while moderate to thick density smoke was observed throughout northern Canada, the Pacific Northwest and the North Central region of the United States, with the thickest smoke concentrated throughout northern Canada. The thick density smoke observed in northern

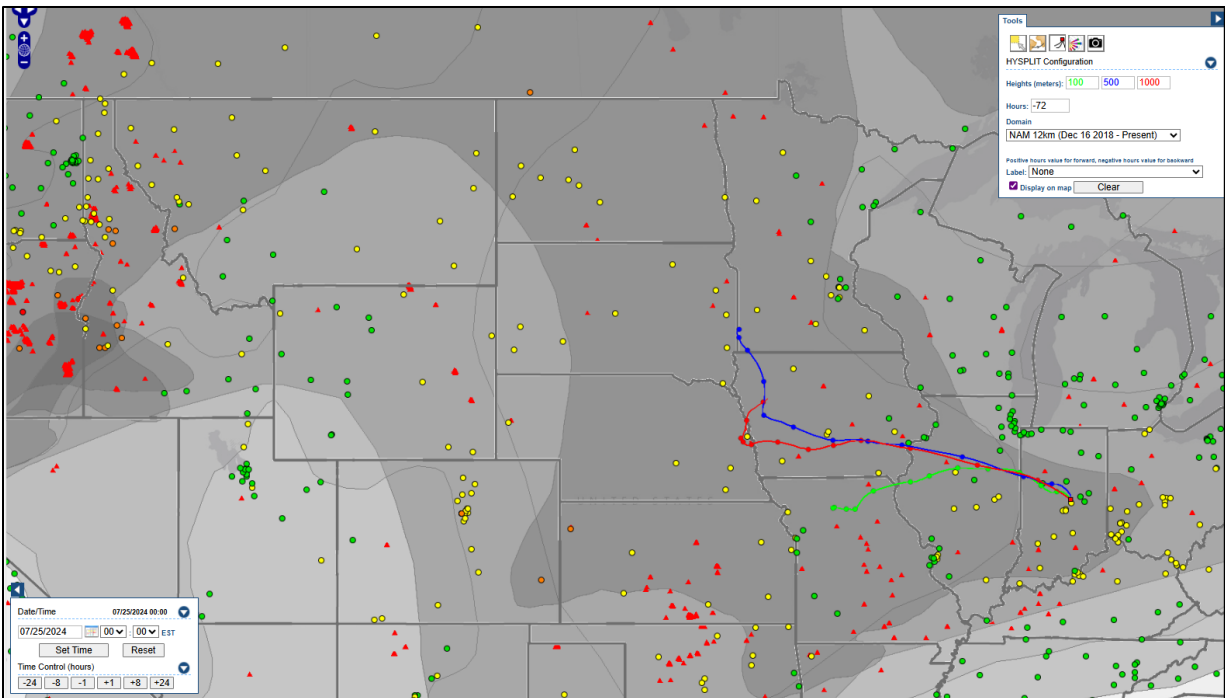
Canada is attributed to the numerous amounts of large ongoing wildfires that have been producing large plumes of moderate and thick density smoke in previous days, creating a large mass of thick smoke that can be seen stretching east-southeast from the central region of the Northwest Territories to the southeast corner of Manitoba. As the mass of mixed density smoke continued to move east-southeast across Canada and the Continental United States, it was seen as more moderate in density as it moved into the North Central and Great Lakes region of the United States while a band of moderate smoke continued extending to the east through Quebec before dispersing into the northern Atlantic Ocean.

# July 25, 2024

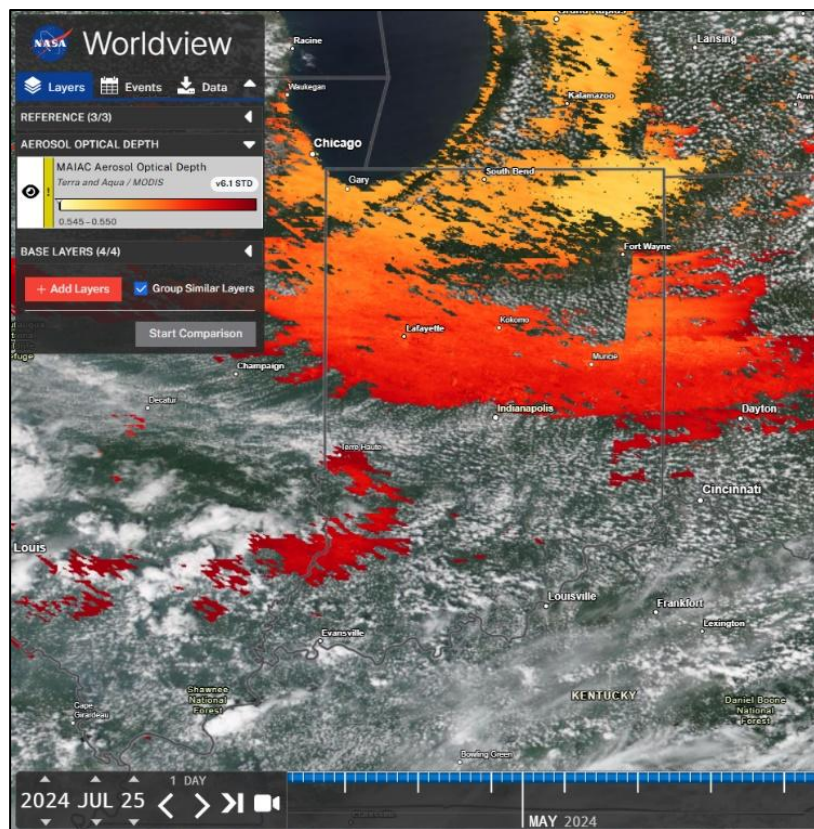
## PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

| Monitor name | AQS       | Date      | Daily average<br>( $\mu\text{g}/\text{m}^3$ ) | Tier 2<br>Threshold<br>( $\mu\text{g}/\text{m}^3$ ) |
|--------------|-----------|-----------|-----------------------------------------------|-----------------------------------------------------|
| Fishers      | 180570007 | 7/25/2024 | 14.2                                          | 13.8                                                |

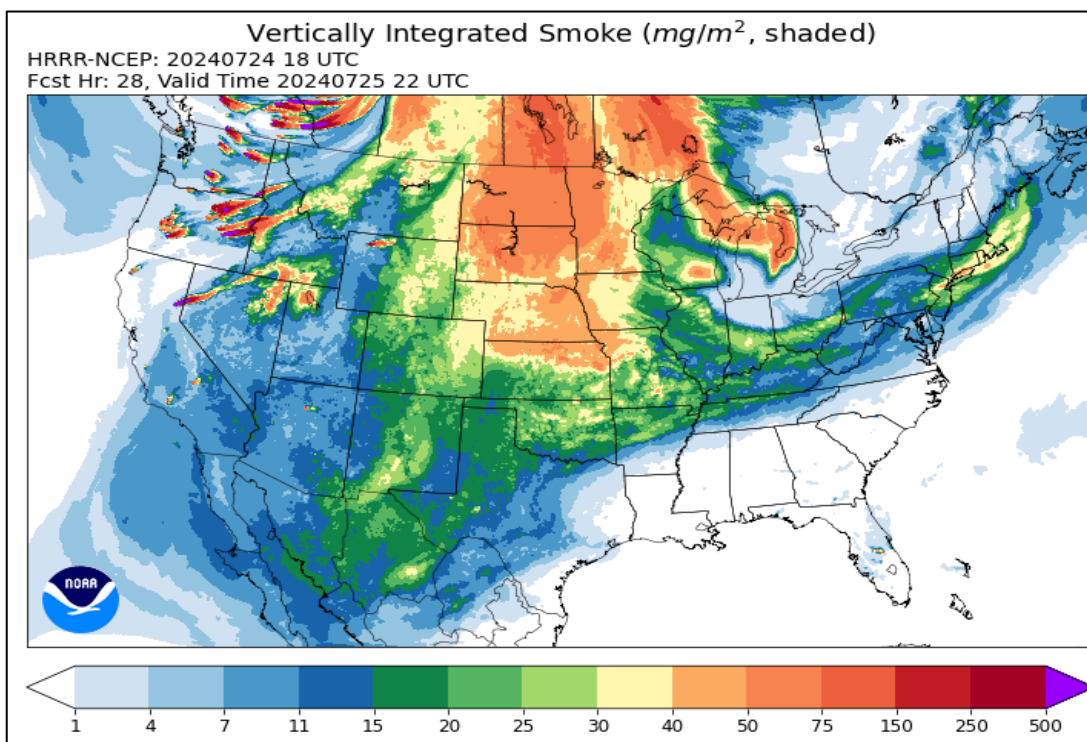
## AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – July 25, 2024

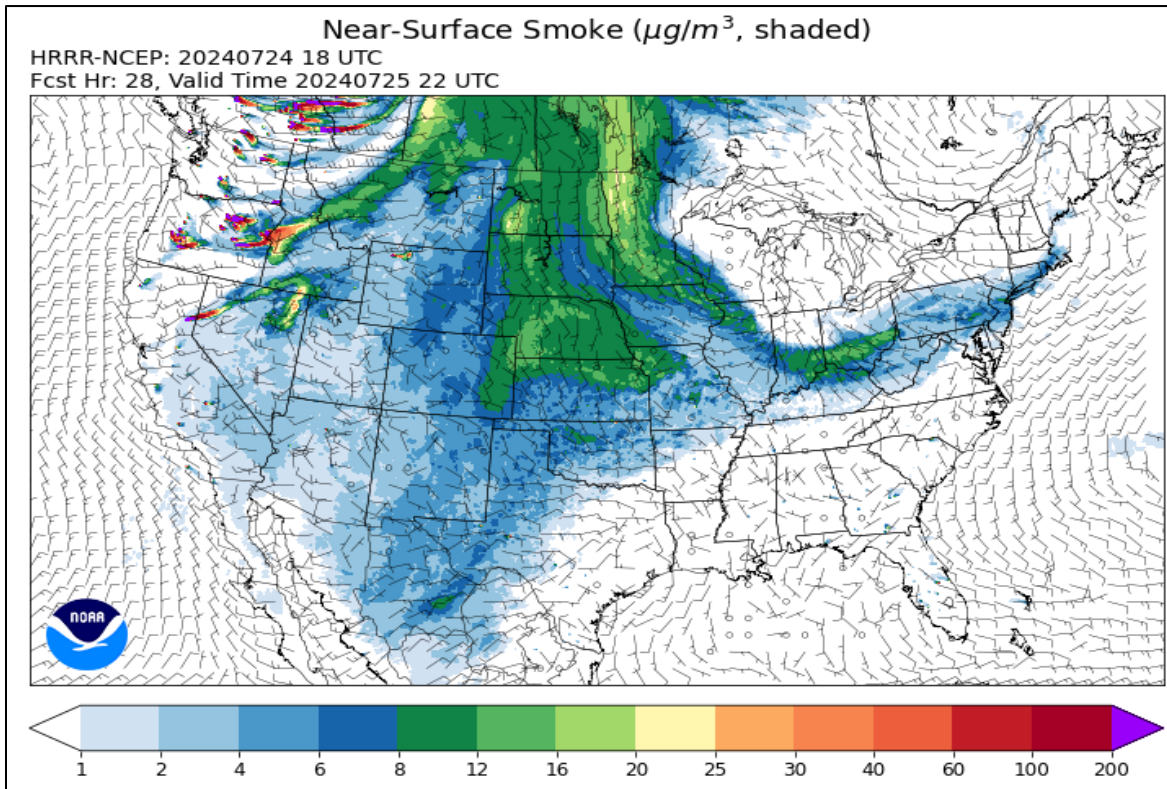
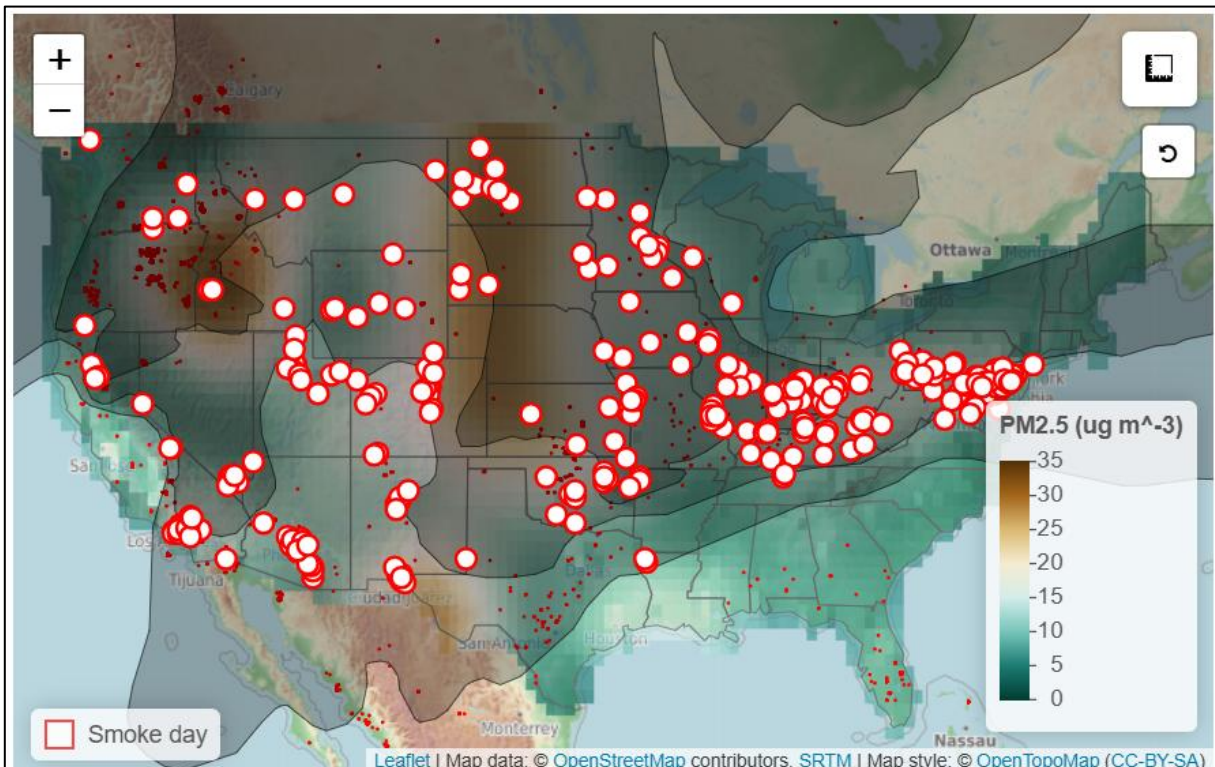


## Satellite Imagery with MAIAC AOD – July 25, 2024



## HRRR Smoke - Vertically Integrated Smoke – July 25, 2024



**HRRR Smoke - Near Surface Smoke – July 25, 2024****GAM PMO3 Smoke Output – July 25, 2024**

## NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1725Z July 25, 2024

SMOKE:

Canada/United States/Northern Mexico/Pacific Ocean/Atlantic Ocean...

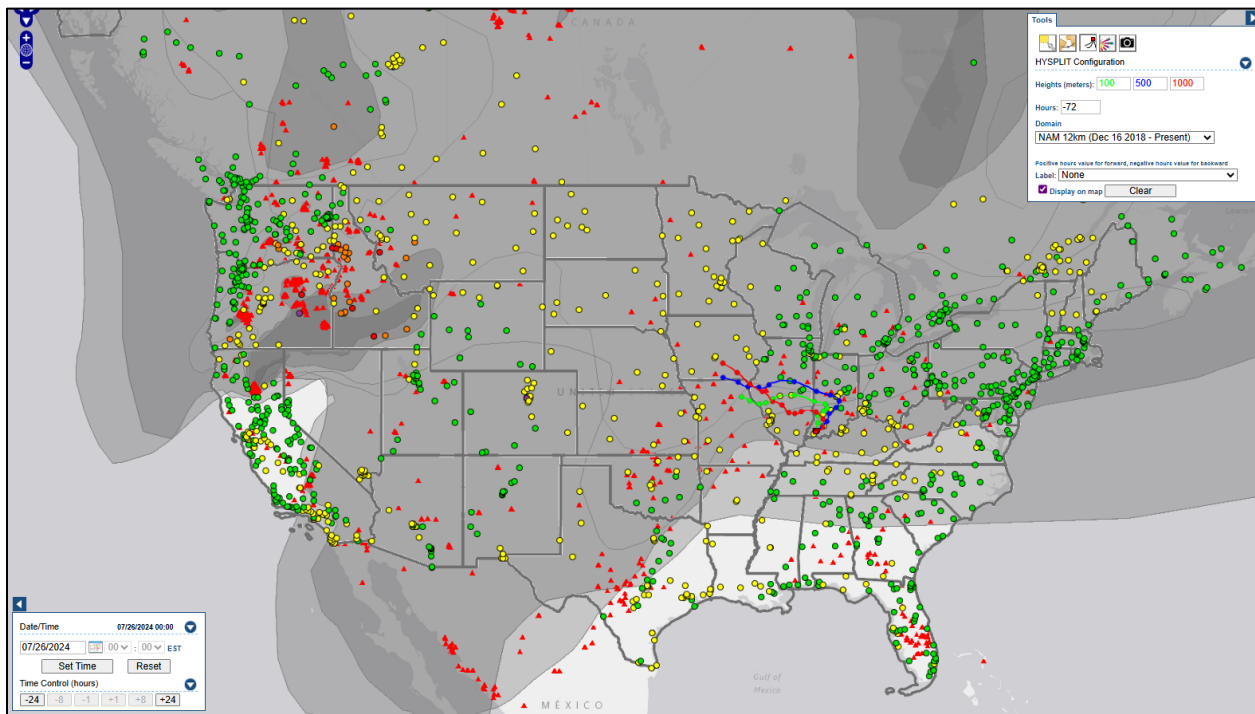
A significant amount of mixed density smoke attributed to a combination of seasonal fire activity throughout the United States and numerous wildfires in northern Canada, Alaska and the Pacific Northwest region continues to be observed today. Light density smoke was seen throughout the majority of the United States, extending east-southeast from Alaska and the Bering Sea into the northern Pacific Ocean off the coasts of Washington State and Oregon. The light density smoke continued moving east across northern Canada and the United States, extending south along the West Coast, reaching northern Mexico, before extending east through the Gulf States and eventually dispersing into the northern Atlantic Ocean. Areas of moderate density smoke were seen throughout Alaska, Canada and the central United States, while areas with the thickest density smoke were concentrated in the Pacific Northwest, Alberta, Saskatchewan, Manitoba, Ontario and the Midwest region of the United States. The large mass of thick density smoke concentrated throughout these areas was seen stretching east-southeast from the Alaska to central Ontario, becoming more moderate to light in density as it moved into the Midwest region and Northeastern regions of the United States, however, two bands of moderate smoke continued extending east through Quebec and the Northeast United States before dispersing into the northern Atlantic Ocean past the southern tip of Greenland.

# July 26, 2024

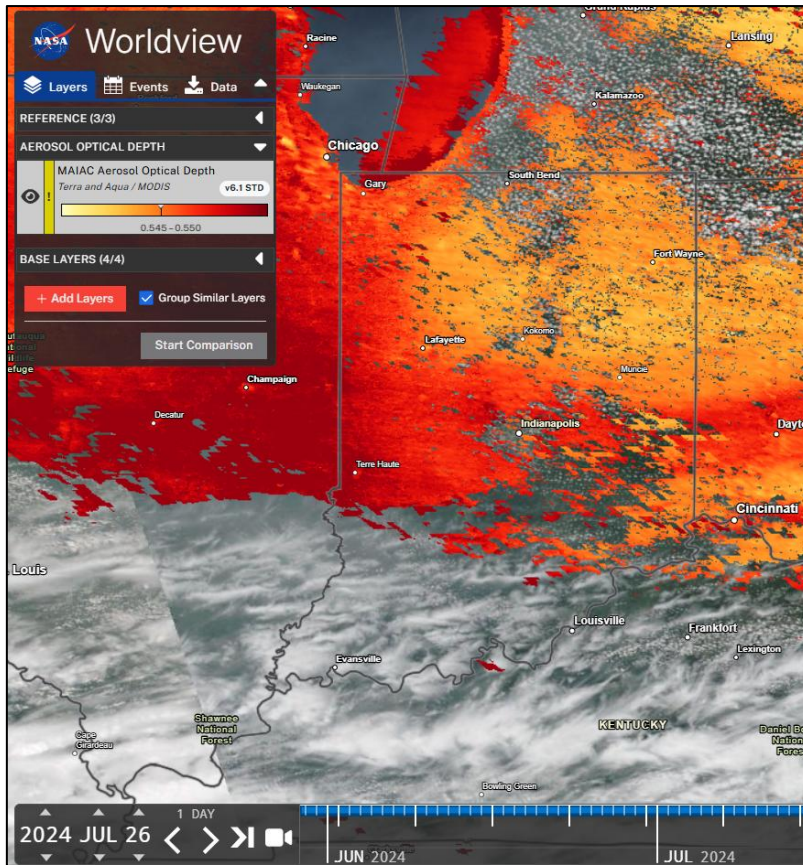
## PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

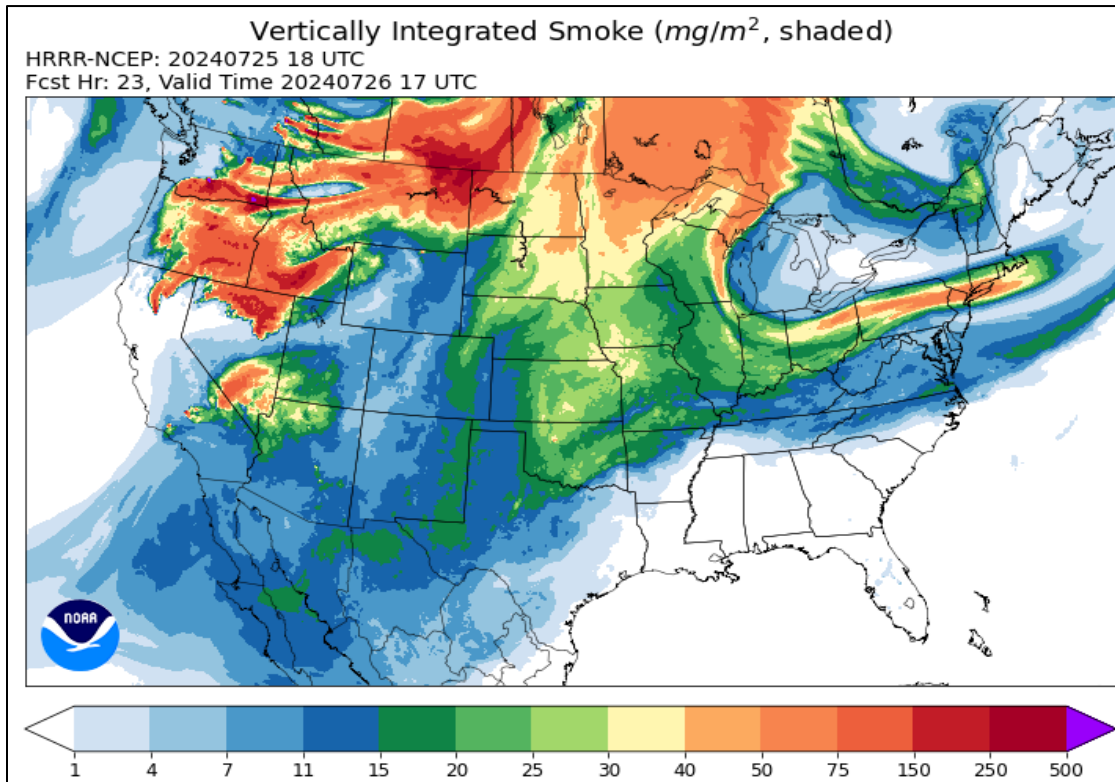
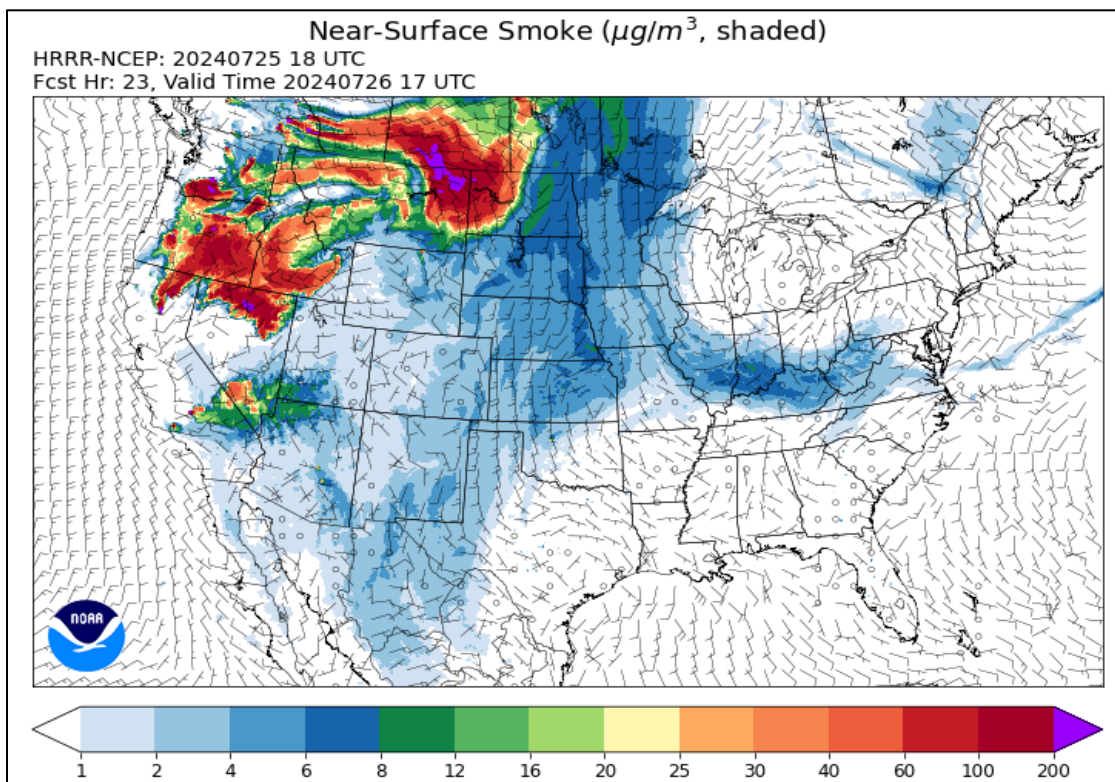
| Monitor name                      | AQS       | Date      | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|-----------------------------------|-----------|-----------|------------------------------------|---------------------------------------|
| Jeffersonville - Bates-Bowyer Ave | 180190010 | 7/26/2024 | 18.4                               | 17.0                                  |
| Jasper - Post Office              | 180372001 | 7/26/2024 | 17.8                               | 15.7                                  |
| Dale                              | 181470009 | 7/26/2024 | 18.1                               | 13.9                                  |
| Evansville - U of E               | 181630016 | 7/26/2024 | 18.0                               | 15.5                                  |
| Evansville - Buena Vista          | 181630021 | 7/26/2024 | 21.5                               | 15.1                                  |

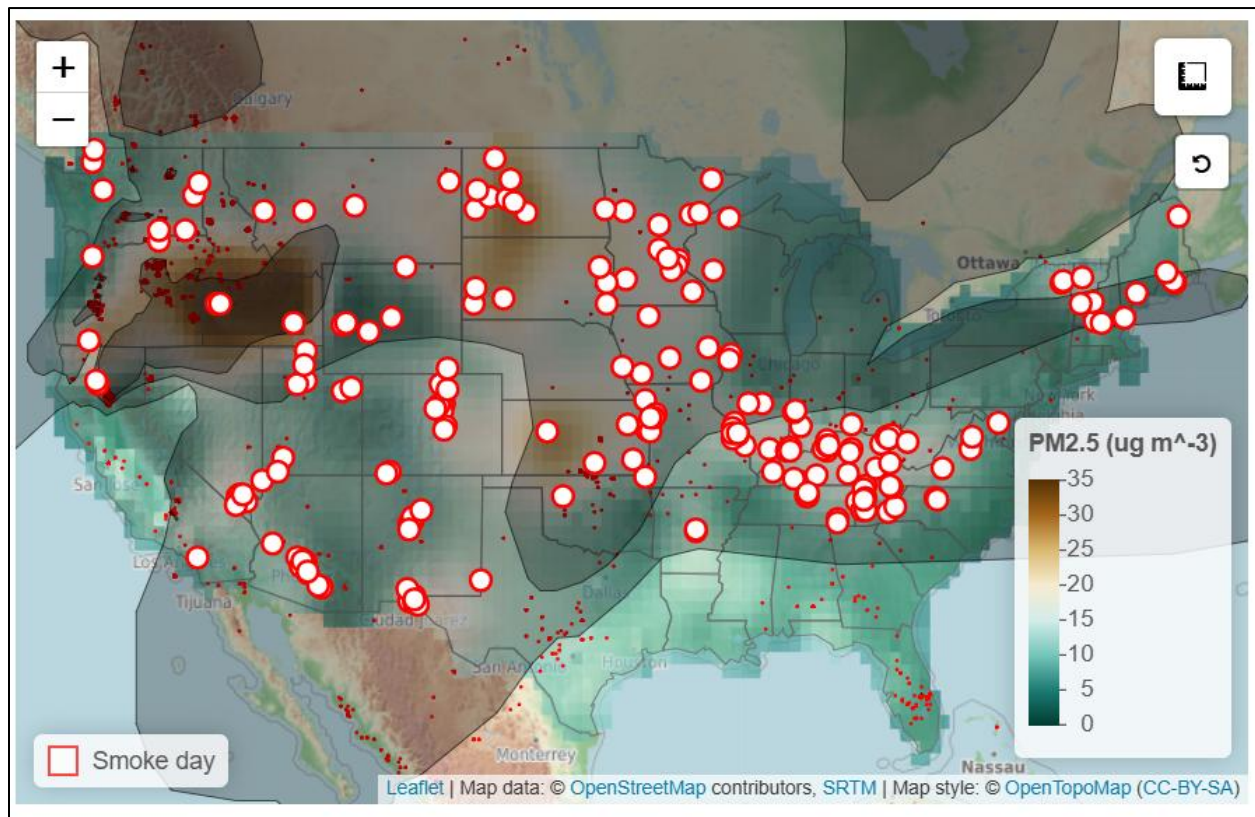
## AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – July 26, 2024



## Satellite Imagery with MAIAC AOD – July 26, 2024



**HRRR Smoke - Vertically Integrated Smoke – July 26, 2024****HRRR Smoke – Near Surface Smoke – July 26, 2024**

**GAM PMO3 Smoke Output – July 26, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1550Z July 26, 2024

SMOKE:

Canada/United States/Pacific Ocean/Atlantic Ocean...

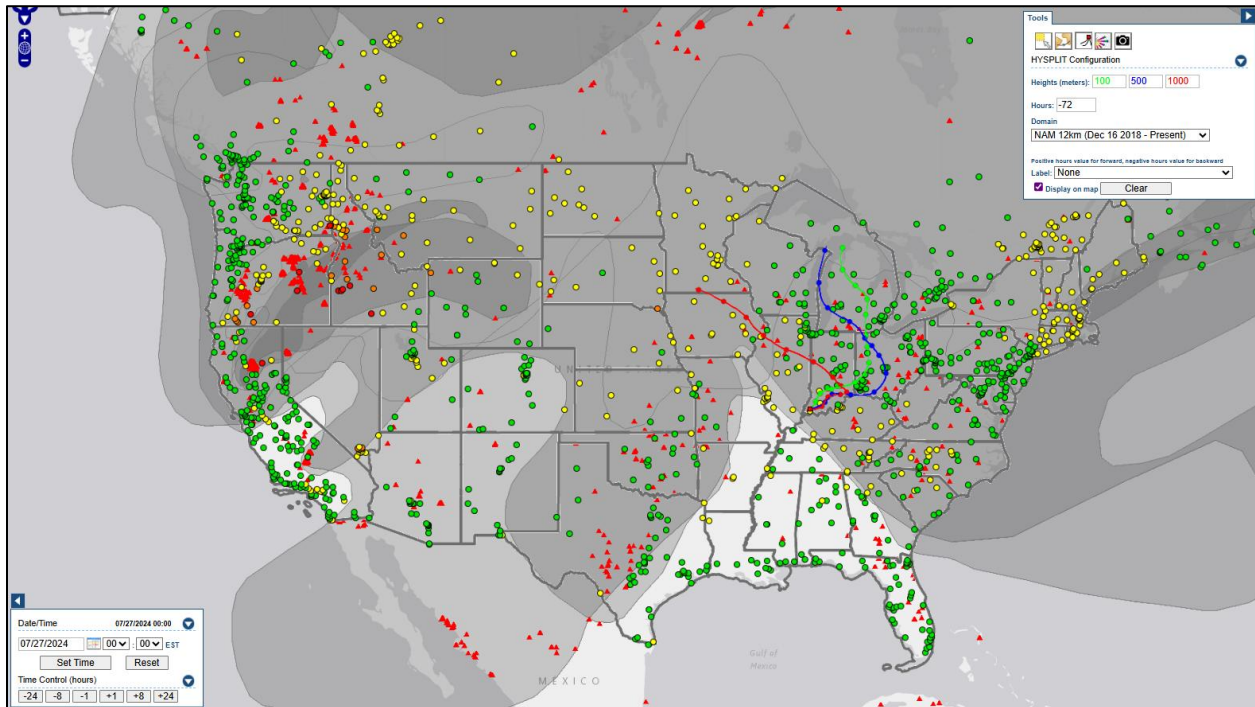
A significant amount of mixed density smoke attributed to a combination of seasonal fire activity throughout the United States and numerous wildfires in western Canada, Alaska and the Pacific Northwest region continues to be observed today. Light density smoke was seen throughout the majority of the United States, Canada and extending into portions of the northern Atlantic Ocean. A large area of moderate density smoke was seen throughout much of Canada, the majority of the Pacific Northwest, the Northern Great Plains and extending into the Northeastern United States.

# July 27, 2024

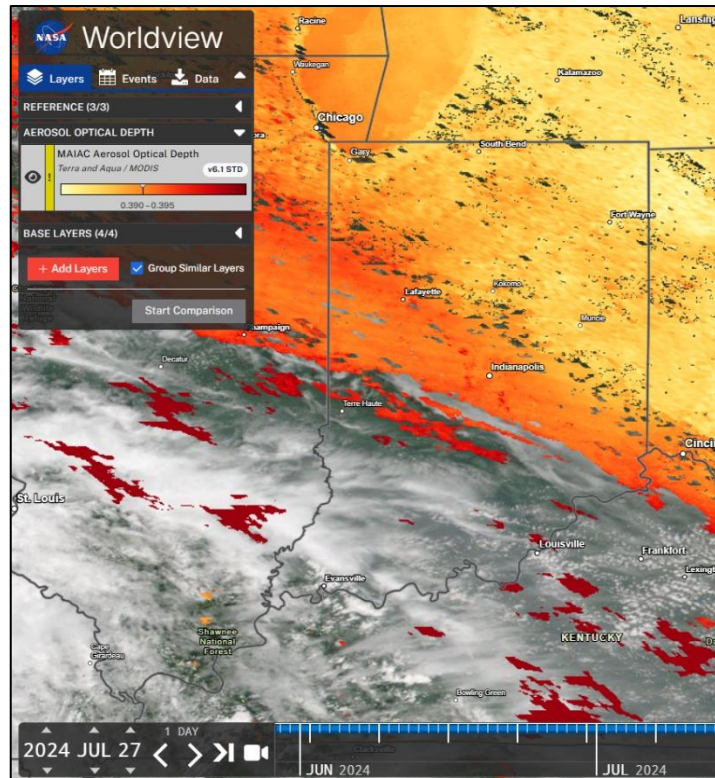
## PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

| Monitor name             | AQS       | Date      | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|--------------------------|-----------|-----------|------------------------------------|---------------------------------------|
| Evansville - Buena Vista | 181630021 | 7/27/2024 | 20.3                               | 15.1                                  |

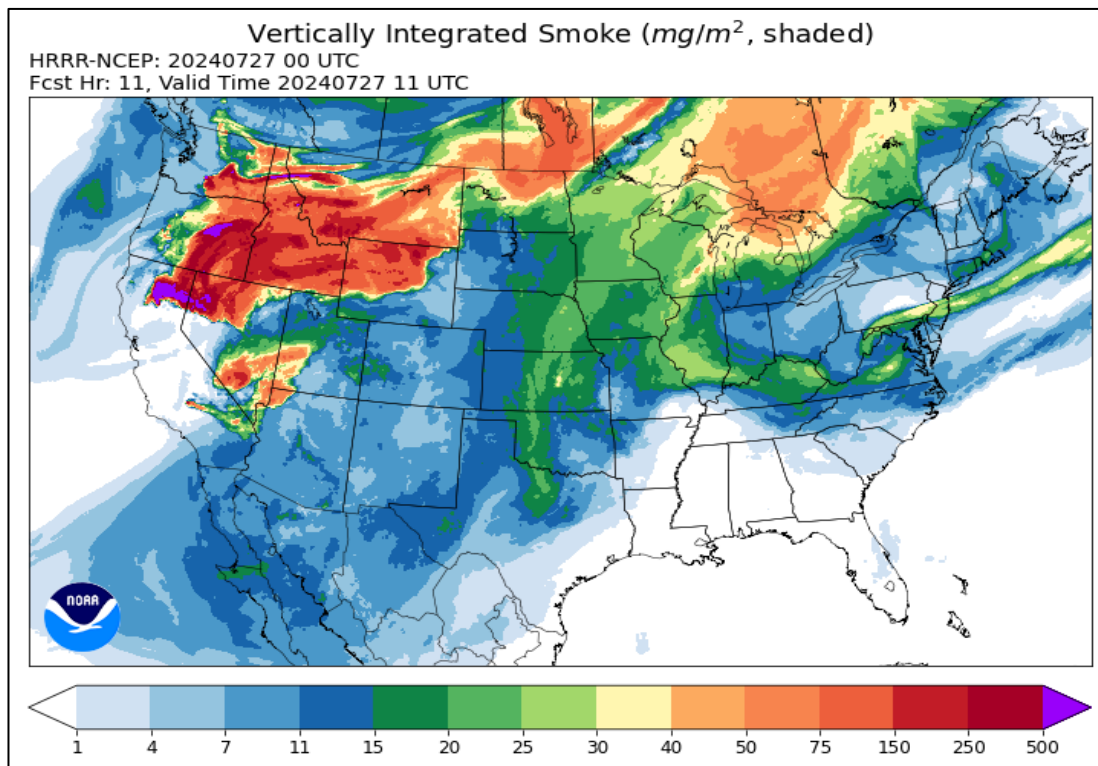
## AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – July 27, 2024

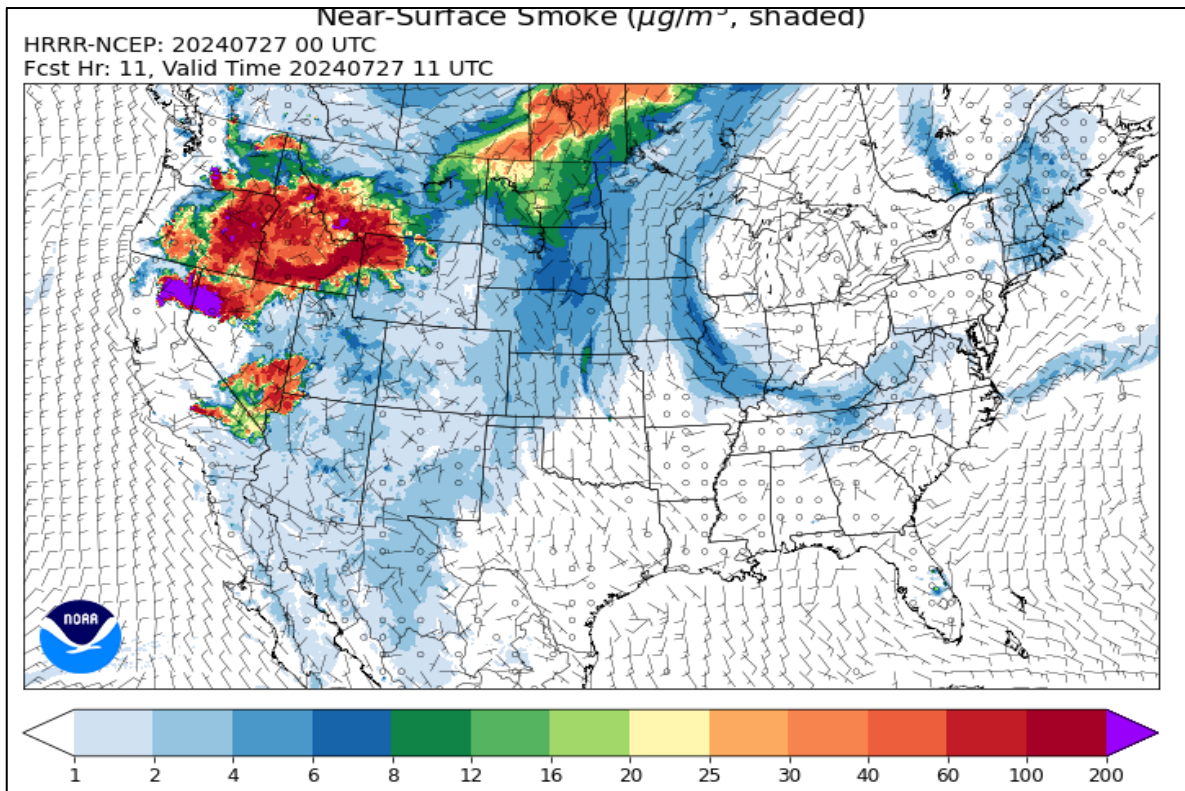
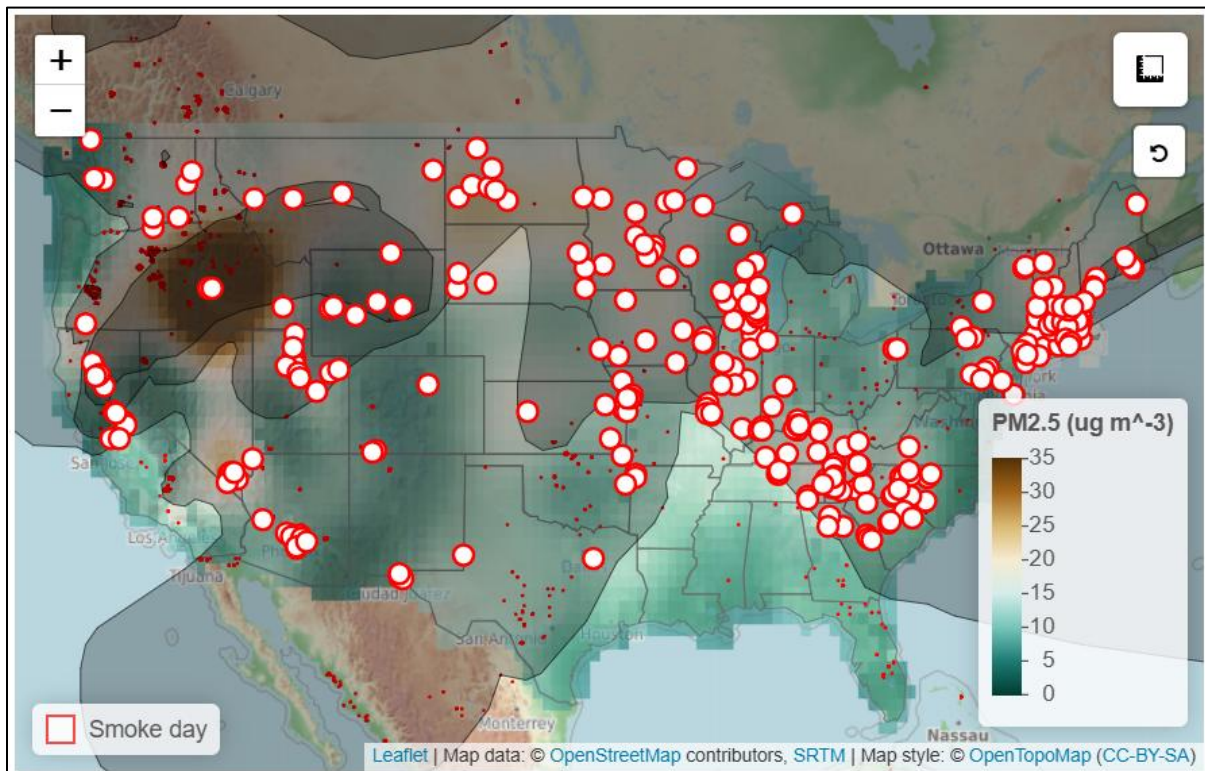


## Satellite Imagery with MAIAC AOD – July 27, 2024



## HRRR Smoke - Vertically Integrated Smoke – July 27, 2024



**HRRR Smoke - Near Surface Smoke – July 27, 2024****GAM PMO3 Smoke Output – July 27, 2024**

**NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1550Z July 27, 2024

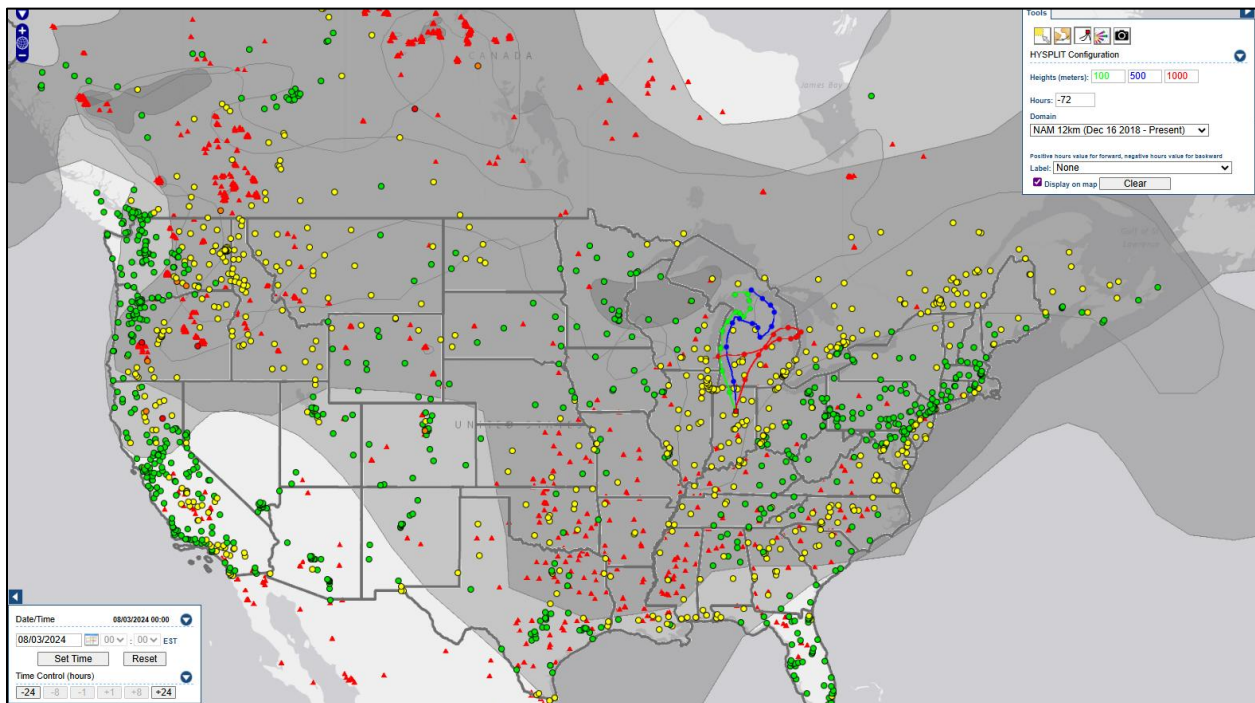
SMOKE:

Canada/United States/Pacific Ocean/Atlantic Ocean...

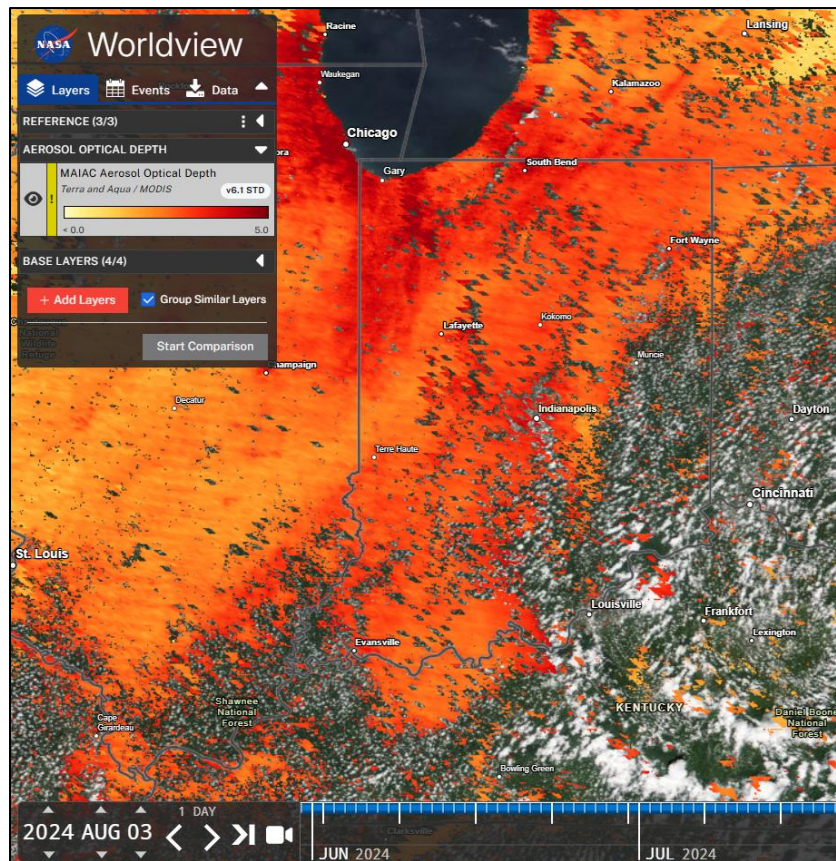
A significant amount of mixed density smoke attributed to a combination of seasonal fire activity throughout the United States and numerous wildfires in western Canada, Alaska and the Pacific Northwest region continues to be observed today. Light density smoke was seen throughout the majority of the United States, Canada and extending into the northern Atlantic Ocean. A large area of moderate density smoke was seen throughout much of Canada, the Pacific Northwest, the Central and Northern Plains, Upper Midwest and extending into the Northeastern United States.

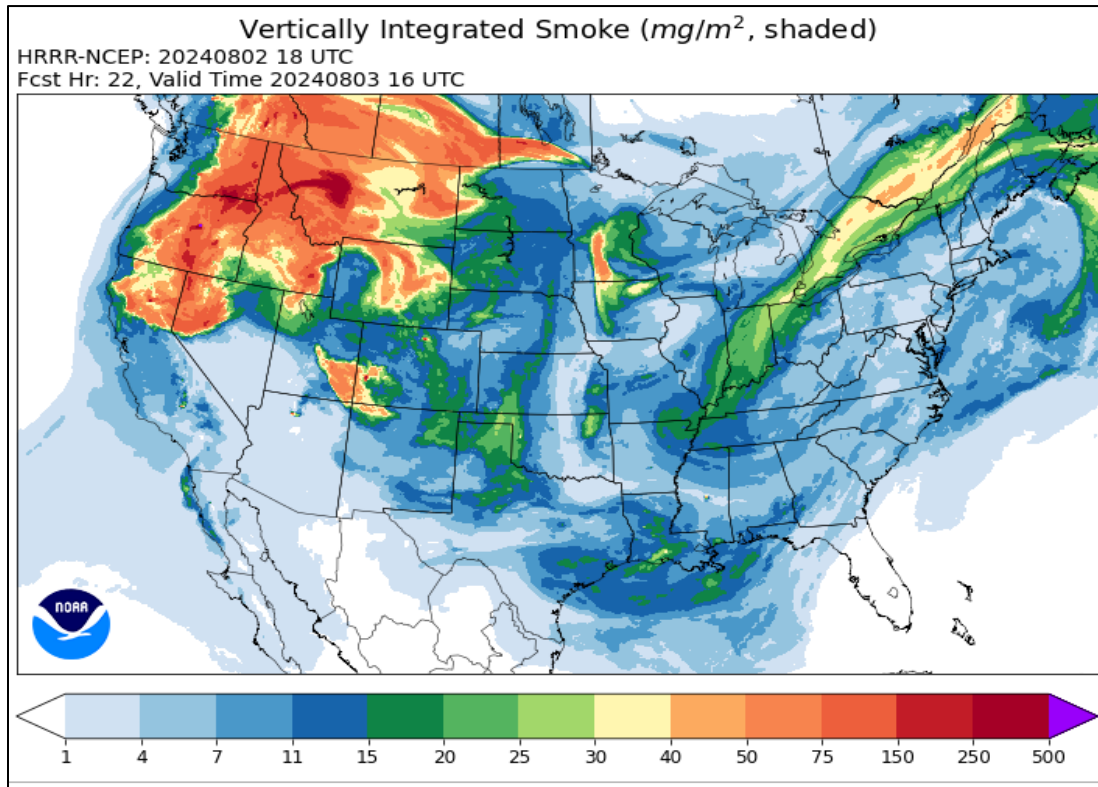
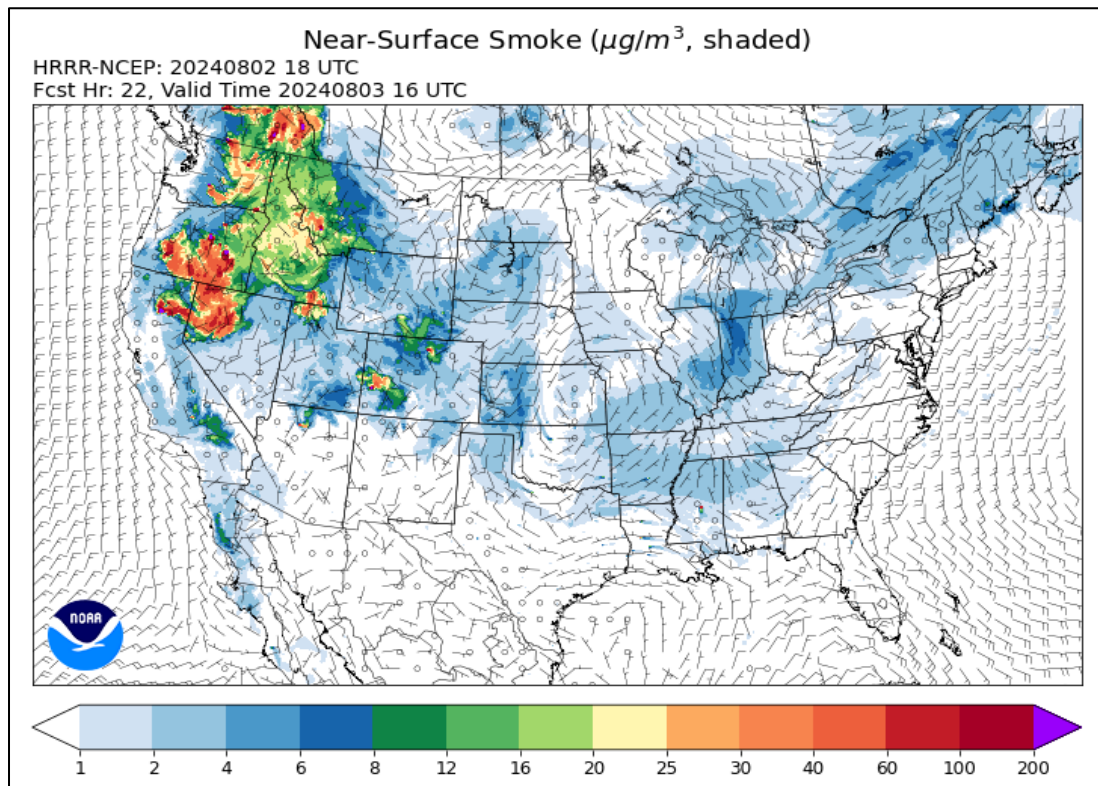
**August 3, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

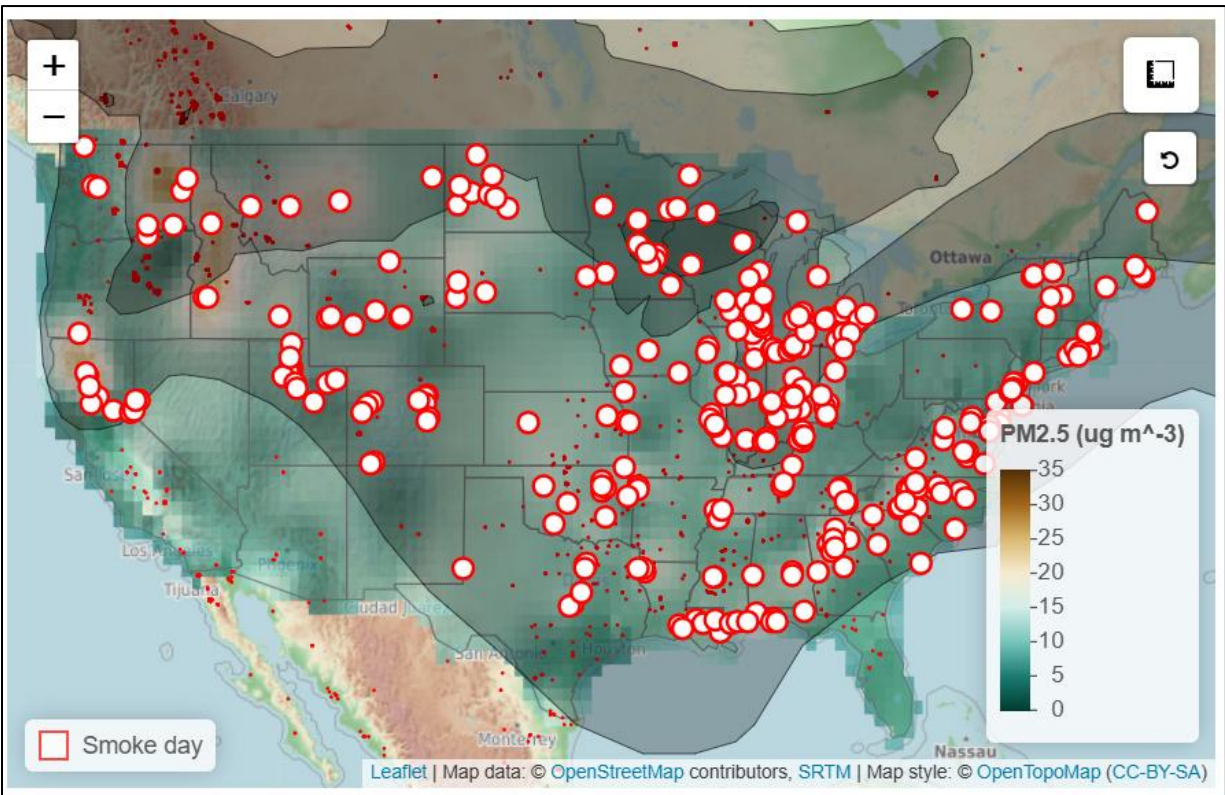
| Monitor name                   | AQS       | Date     | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|--------------------------------|-----------|----------|------------------------------------|---------------------------------------|
| Muncie - Central HS            | 180350006 | 8/3/2024 | 15.2                               | 13.2                                  |
| Fishers                        | 180570007 | 8/3/2024 | 16.2                               | 13.8                                  |
| Kokomo - E. Vaile Ave          | 180670004 | 8/3/2024 | 14.9                               | 14.7                                  |
| Hammond-167th St               | 180890036 | 8/3/2024 | 18.3                               | 16.3                                  |
| Anderson - Eastside Elem       | 180950011 | 8/3/2024 | 15.8                               | 15.4                                  |
| Indianapolis - Washington Park | 180970078 | 8/3/2024 | 18.1                               | 17.8                                  |
| Lafayette - Greenbush St       | 181570008 | 8/3/2024 | 15.6                               | 15.1                                  |
| Larwill                        | 181830003 | 8/3/2024 | 16.6                               | 15                                    |

**AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 3, 2024**

## Satellite Imagery with MAIAC AOD – August 3, 2024



**HRRR Smoke - Vertically Integrated Smoke – August 3, 2024****HRRR Smoke - Near Surface Smoke – August 3, 2024**

**GAM PMO3 Smoke Output – August 3, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1550Z August 03, 2024

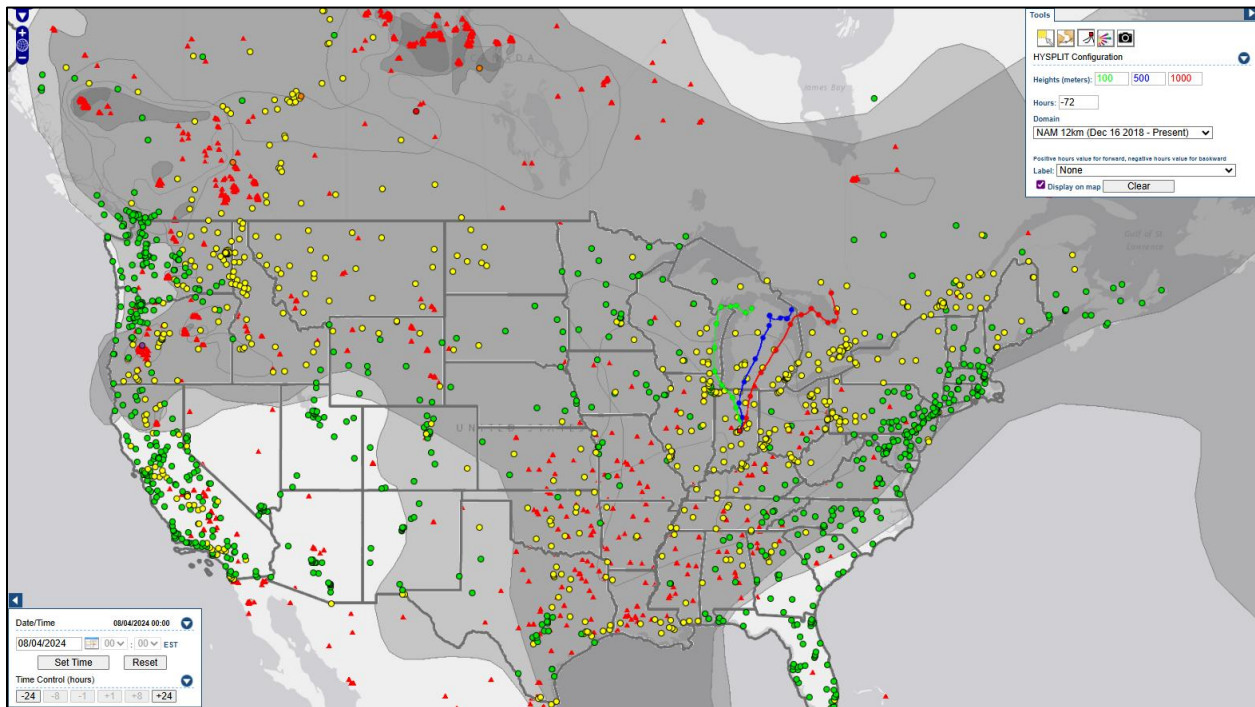
SMOKE:

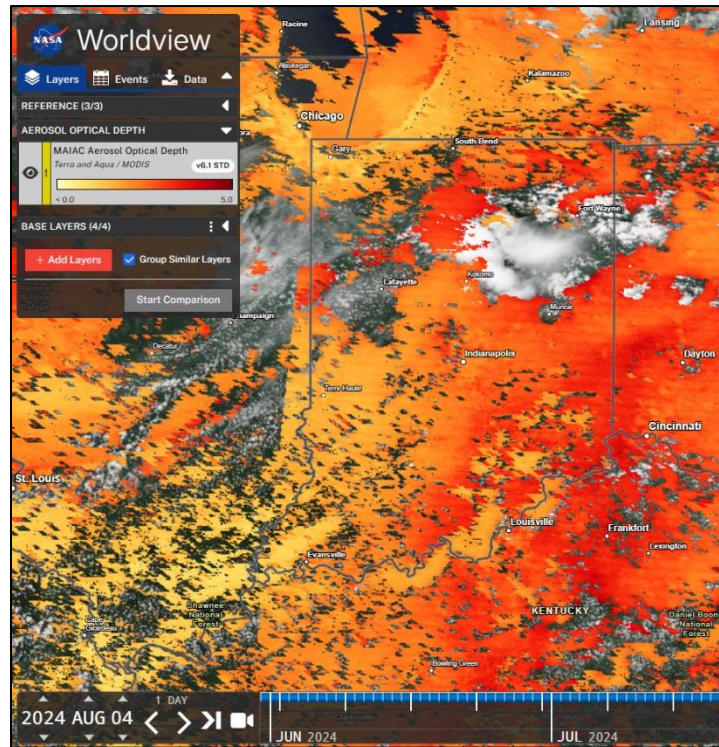
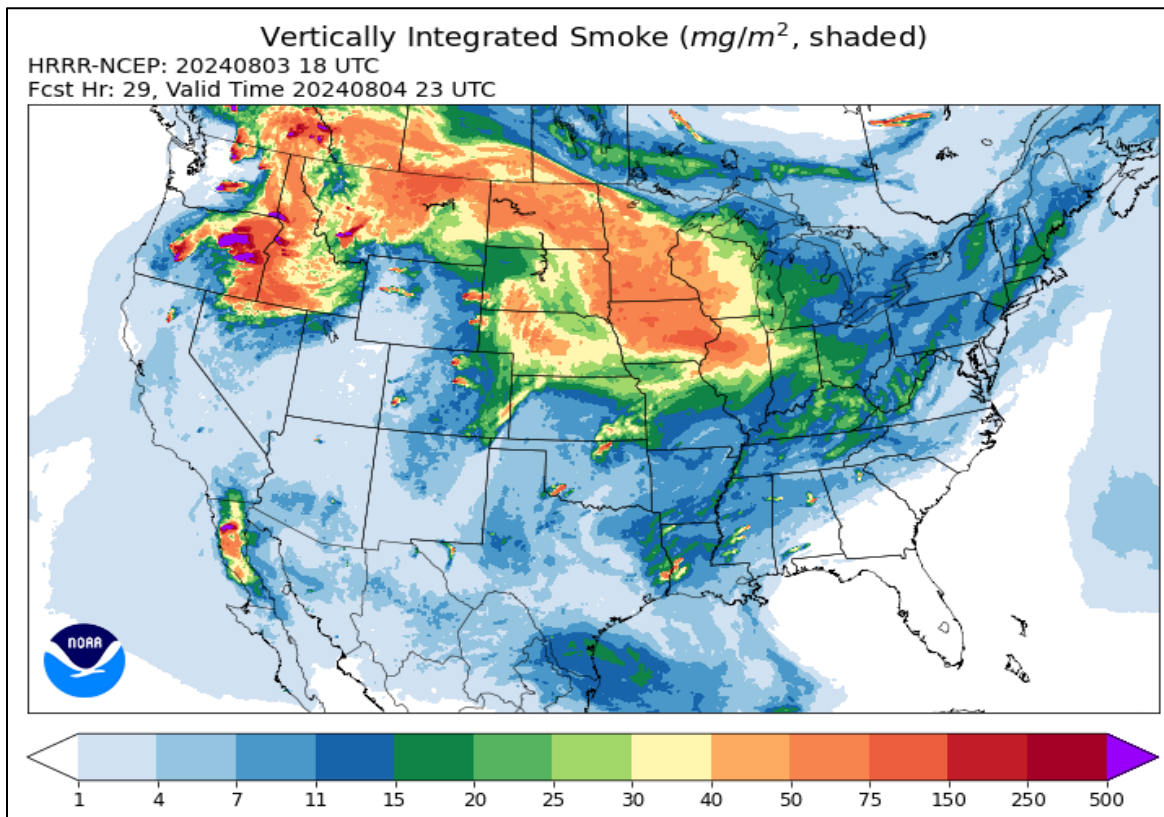
Canada/Northern United States/Atlantic Ocean...

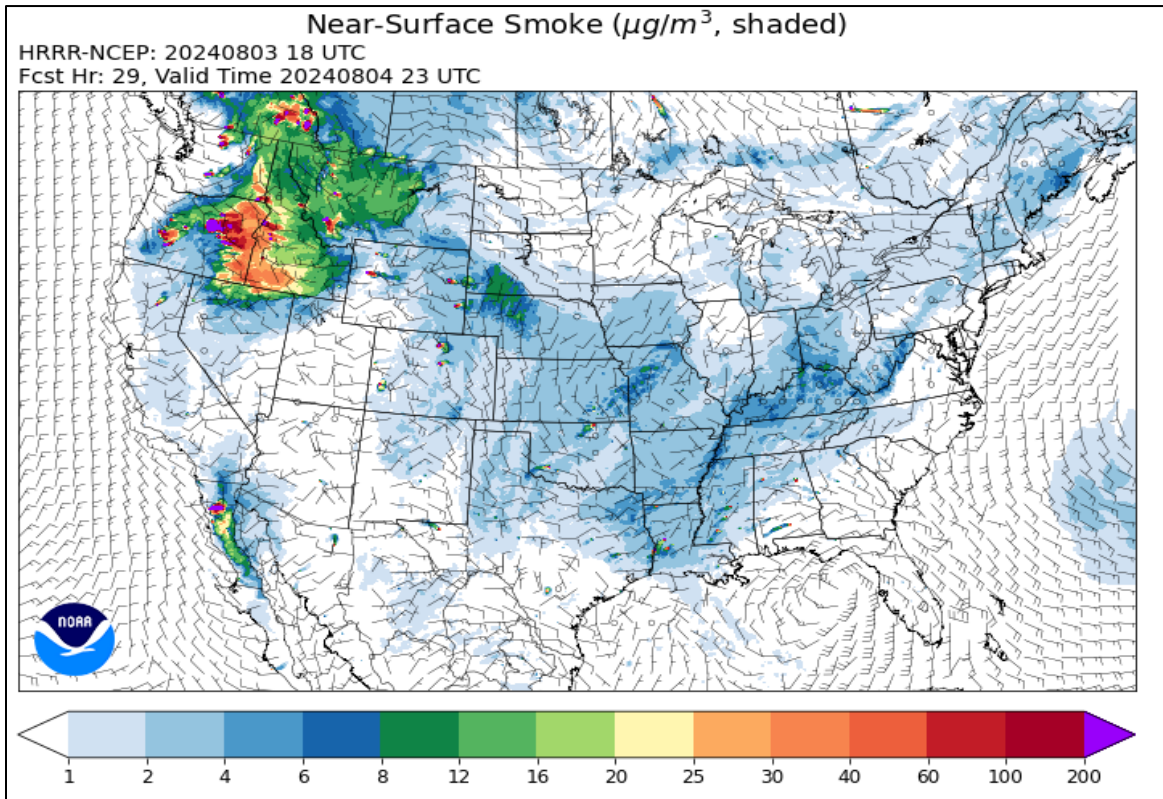
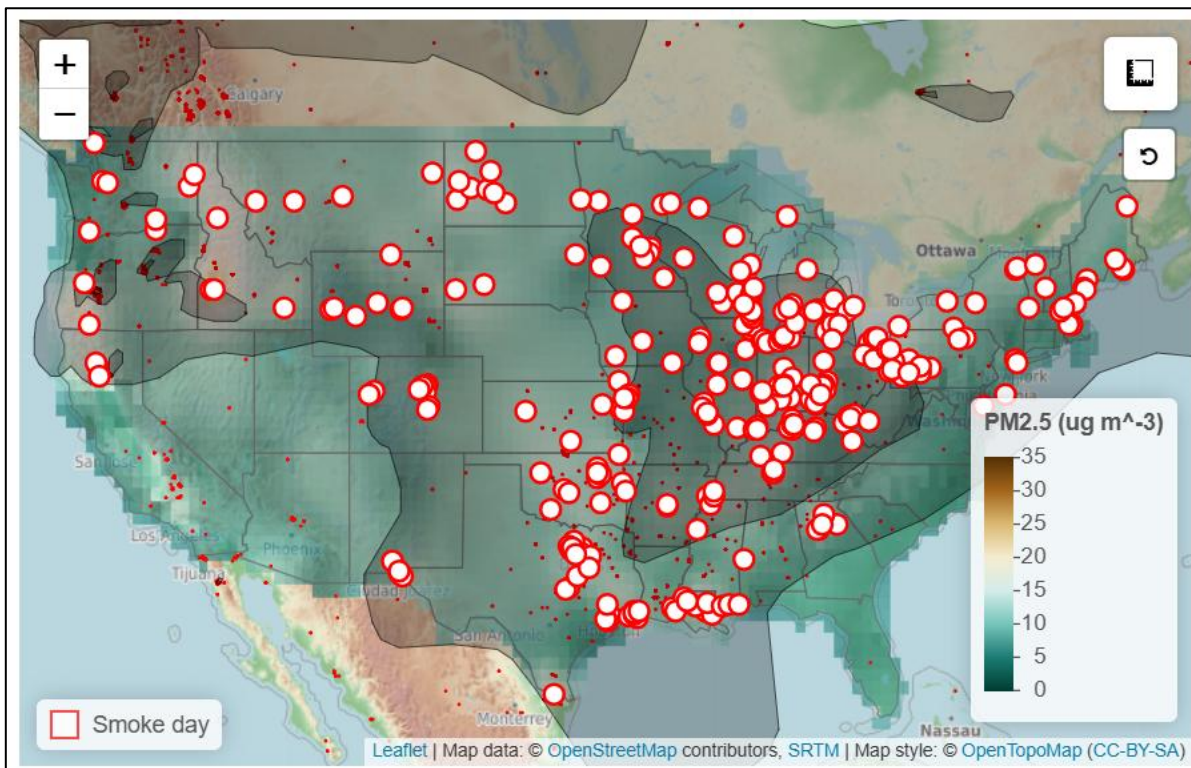
Mixed density smoke attributed to wildfire activity across western and central Canada and the Pacific Northwest of the United States was seen extending over much of Canada, most of the United States and into the North Atlantic Ocean. Within this area, moderate density smoke was seen extending from the Pacific Northwest and portions of British Columbia and Alberta east through southern Canada and the northern United States and into the Atlantic Ocean just southeast of southeast Canada. The highest density smoke was seen over portions of the Upper Midwest States and also from central British Colombia into Alberta.

**August 4, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

| Monitor name                   | AQS       | Date     | Daily average ( $\mu\text{g}/\text{m}^3$ ) | Tier 2 Threshold ( $\mu\text{g}/\text{m}^3$ ) |
|--------------------------------|-----------|----------|--------------------------------------------|-----------------------------------------------|
| Columbus - Rocky Ford Drive    | 180050008 | 8/4/2024 | 14.7                                       | 13.7                                          |
| Muncie - Central HS            | 180350006 | 8/4/2024 | 16.2                                       | 13.2                                          |
| Fishers                        | 180570007 | 8/4/2024 | 17.4                                       | 13.8                                          |
| Anderson - Eastside Elem       | 180950011 | 8/4/2024 | 18.0                                       | 15.4                                          |
| Indianapolis - Washington Park | 180970078 | 8/4/2024 | 20.1                                       | 17.8                                          |
| Dale                           | 181470009 | 8/4/2024 | 13.9                                       | 13.9                                          |
| Evansville - Buena Vista       | 181630021 | 8/4/2024 | 16.6                                       | 15.1                                          |

**AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 4, 2024**

**Satellite Imagery with MAIAC AOD – August 4, 2024****HRRR Smoke - Vertically Integrated Smoke – August 4, 2024**

**HRRR Smoke - Near Surface Smoke – August 4, 2024****GAM PMO3 Smoke Output – August 4, 2024**

**NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1550Z August 04, 2024

SMOKE:

Canada/Northern United States/Atlantic Ocean...

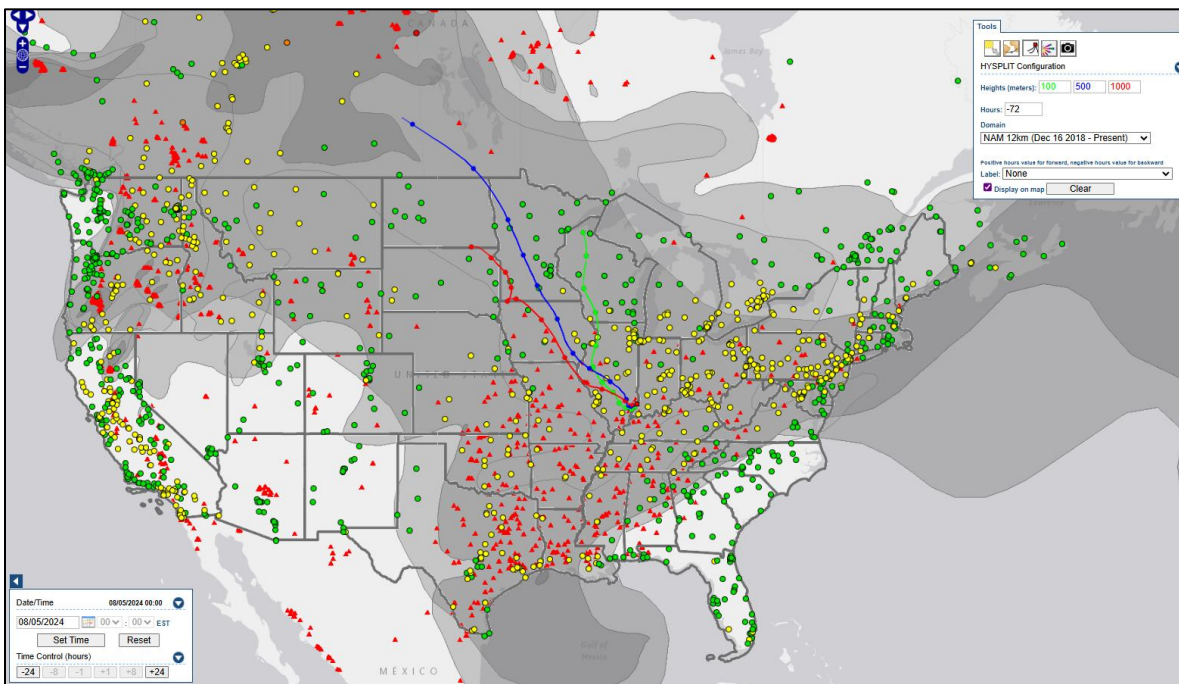
Mixed density smoke attributed to wildfire activity across western and central Canada and the Pacific Northwest of the United States was seen extending over much of Canada, most of the United States, the Gulf of Mexico and into the North Atlantic Ocean. Within this area, moderate density smoke was seen over portions of the Upper Midwest of the United States,

## August 5, 2024

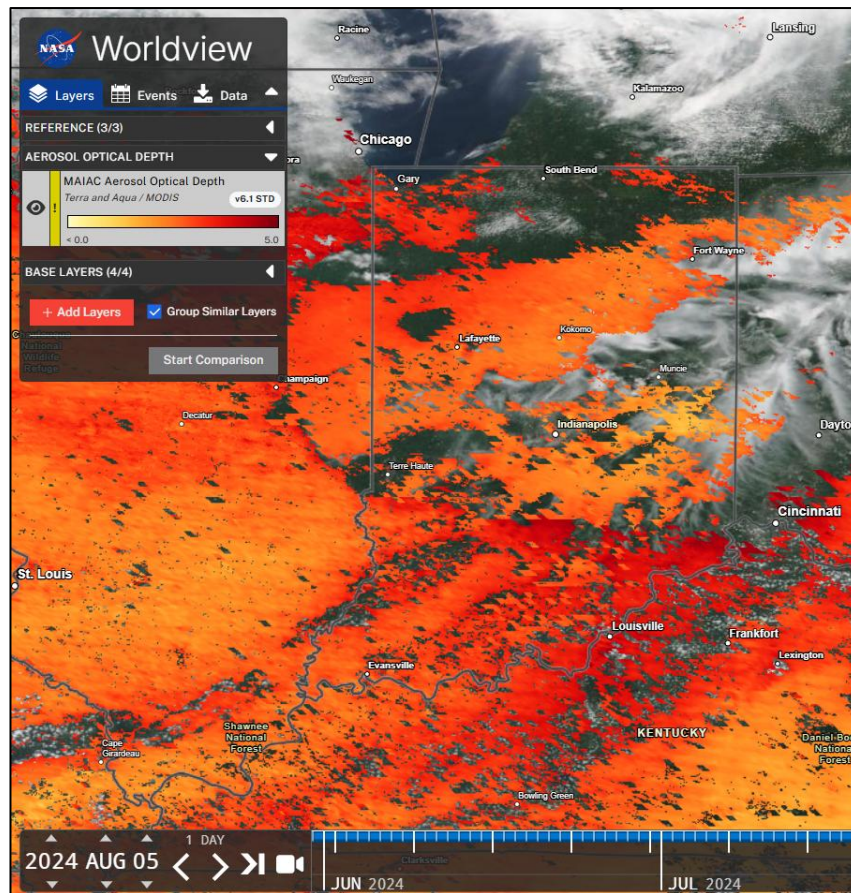
### PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

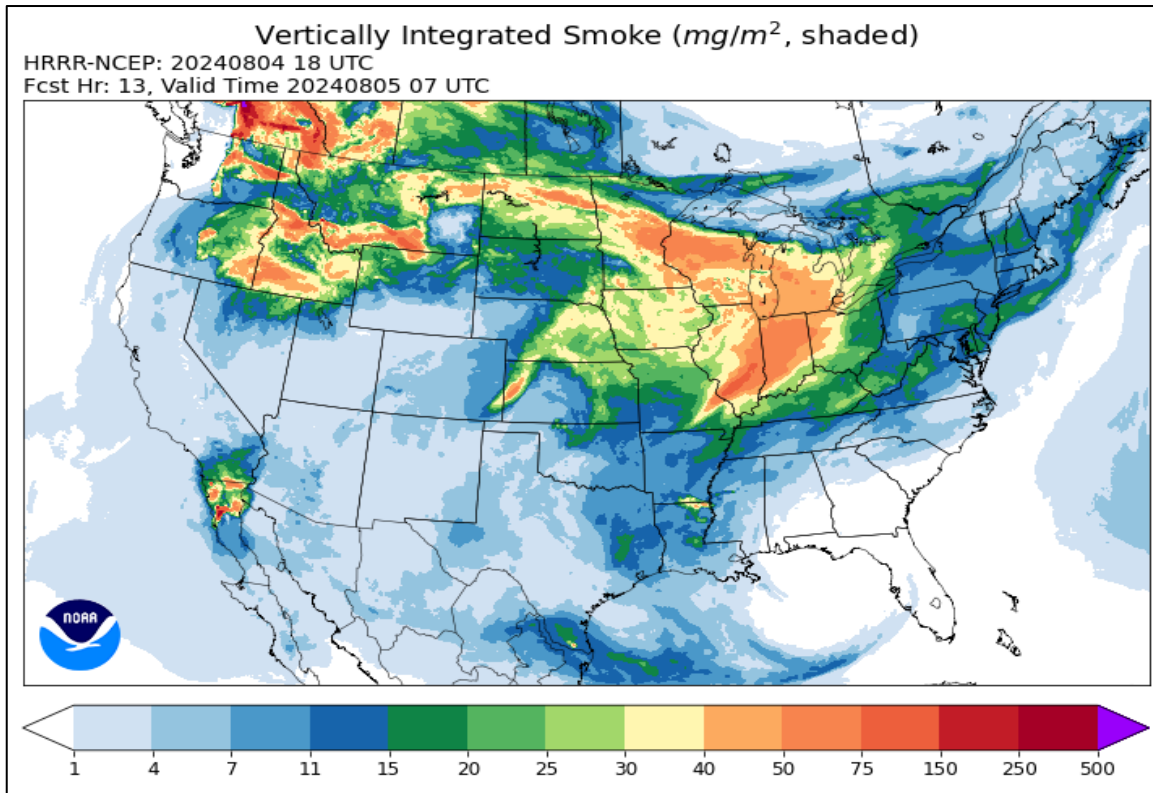
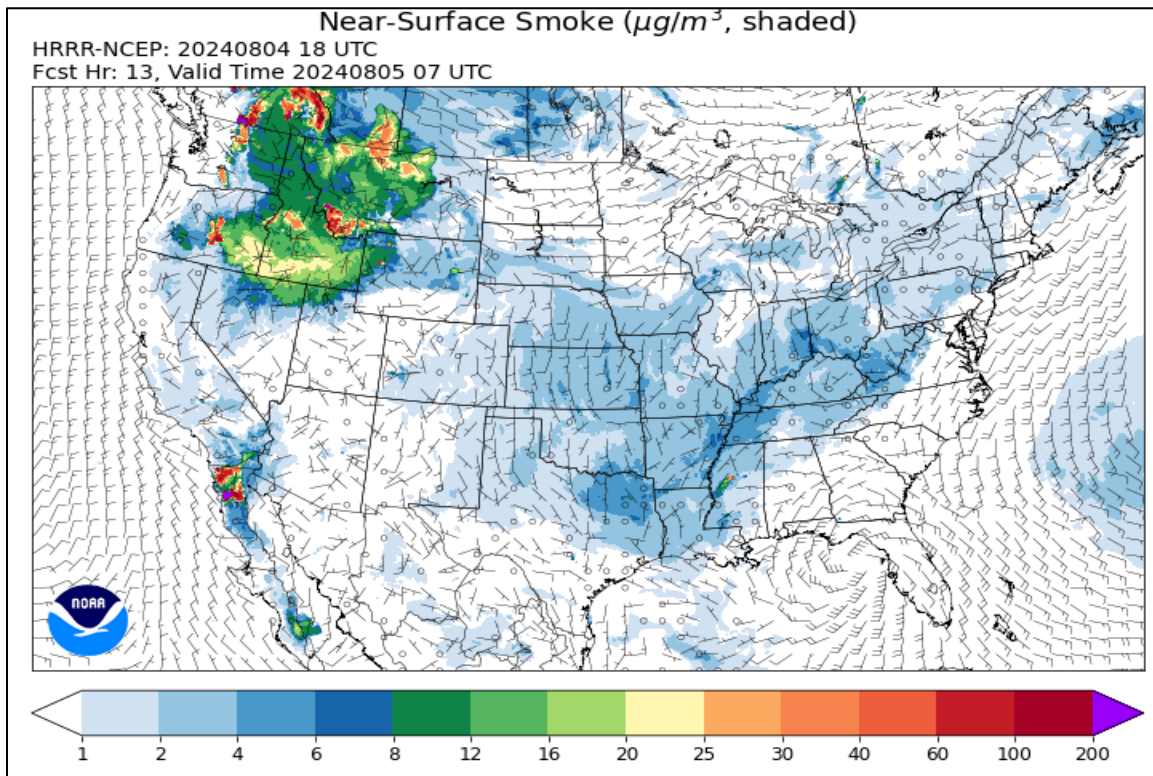
| Monitor name                      | AQS       | Date     | Daily average ( $\mu\text{g}/\text{m}^3$ ) | Tier 2 Threshold ( $\mu\text{g}/\text{m}^3$ ) |
|-----------------------------------|-----------|----------|--------------------------------------------|-----------------------------------------------|
| Jeffersonville - Bates-Bowyer Ave | 180190010 | 8/5/2024 | 19.3                                       | 17.0                                          |
| Muncie - Central HS               | 180350006 | 8/5/2024 | 14.2                                       | 13.2                                          |
| Fishers                           | 180570007 | 8/5/2024 | 14.2                                       | 13.8                                          |
| Evansville - Buena Vista          | 181630021 | 8/5/2024 | 16.9                                       | 15.1                                          |

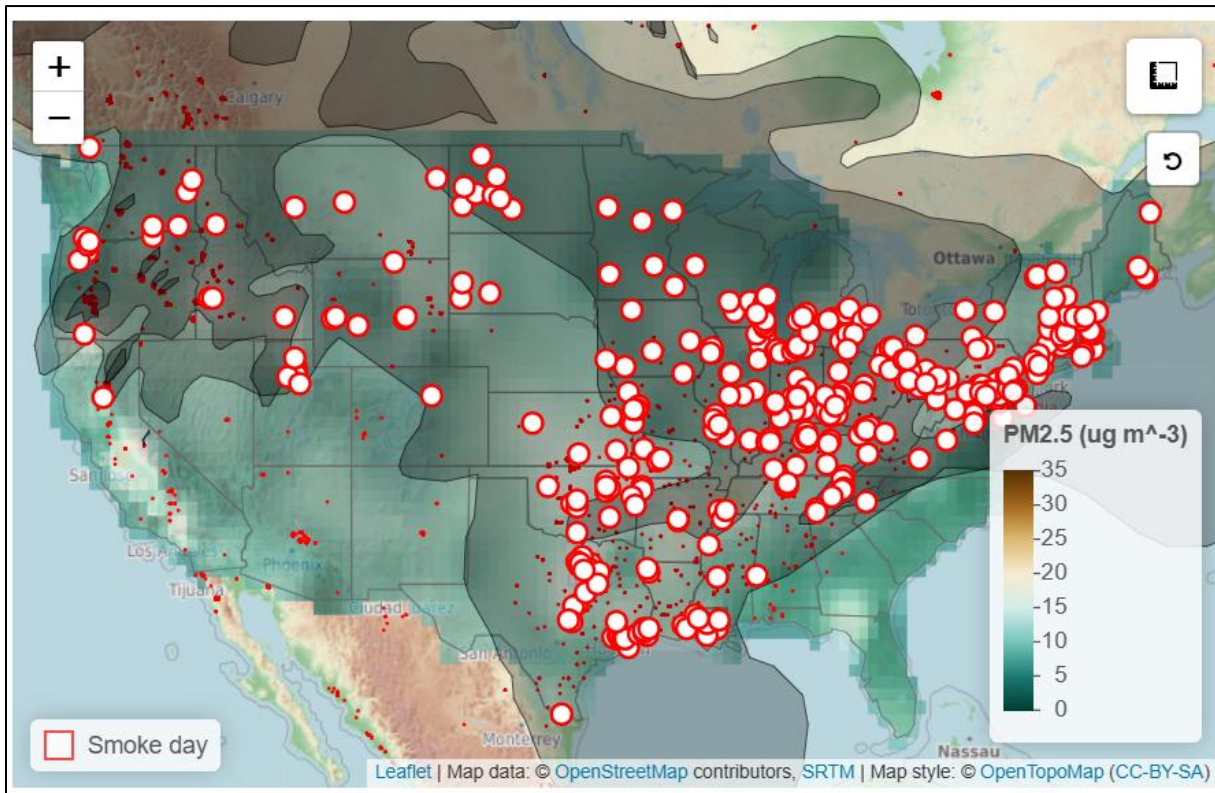
### AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 5, 2024



## Satellite Imagery with MAIAC AOD – August 5, 2024



**HRRR Smoke - Vertically Integrated Smoke – August 5, 2024****HRRR Smoke - Near Surface Smoke – August 5, 2024**

**GAM PMO3 Smoke Output – August 5, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1725Z August 05, 2024

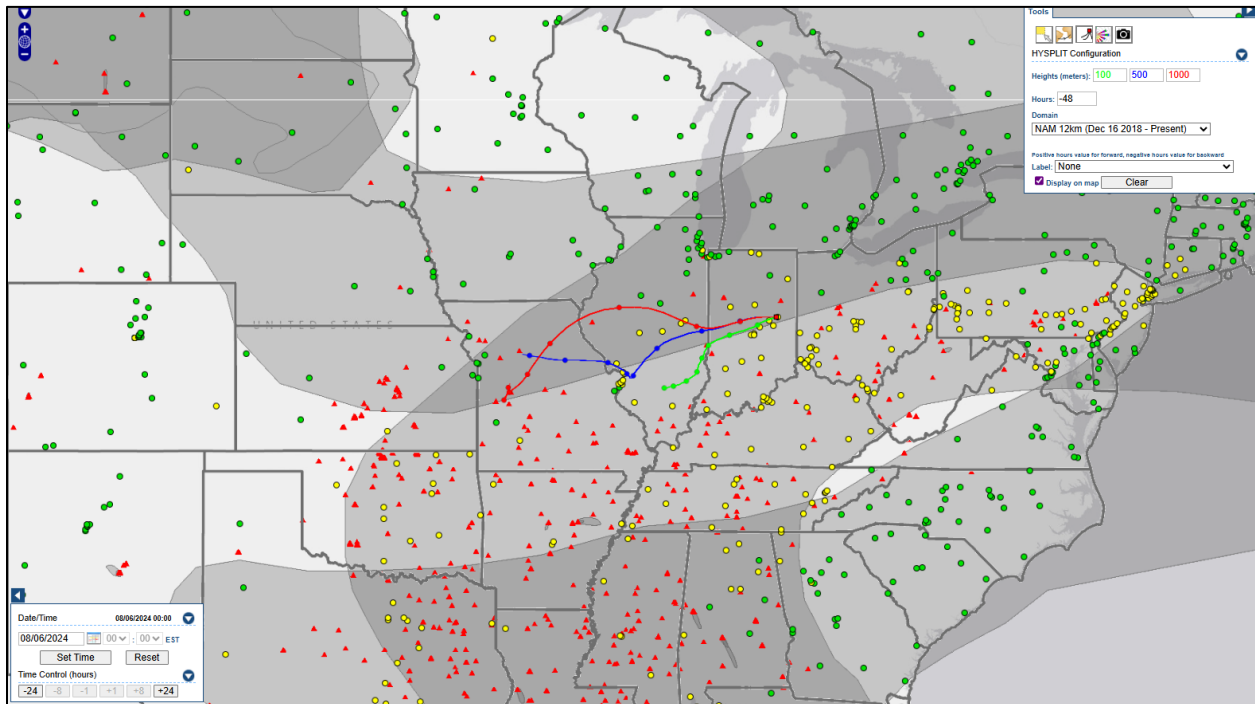
**SMOKE:**

Canada/Eastern United States/Gulf of Mexico/Atlantic Ocean...

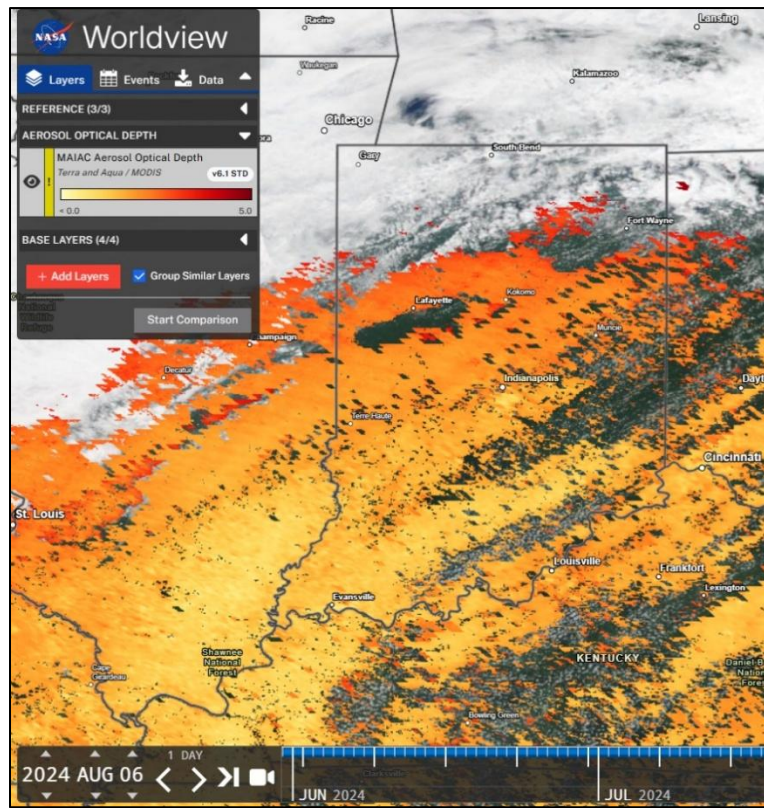
Mixed density smoke attributed to wildfire activity across northwestern and central Canada and the Pacific Northwest region the United States was seen extending from the Northwest Territories to central Alberta and Saskatchewan, western Manitoba, eastern Ontario, reaching southern Quebec, and then extending further east over the northern Atlantic Ocean. Widespread seasonal burning was observed along the southeastern United States resulting in light density smoke present across the region; this smoke was also observed extending south into the Gulf Of Mexico. Areas of moderate density smoke were seen over northern and central Canada, the Pacific Northwest and portions of the Upper Midwest

**August 6, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

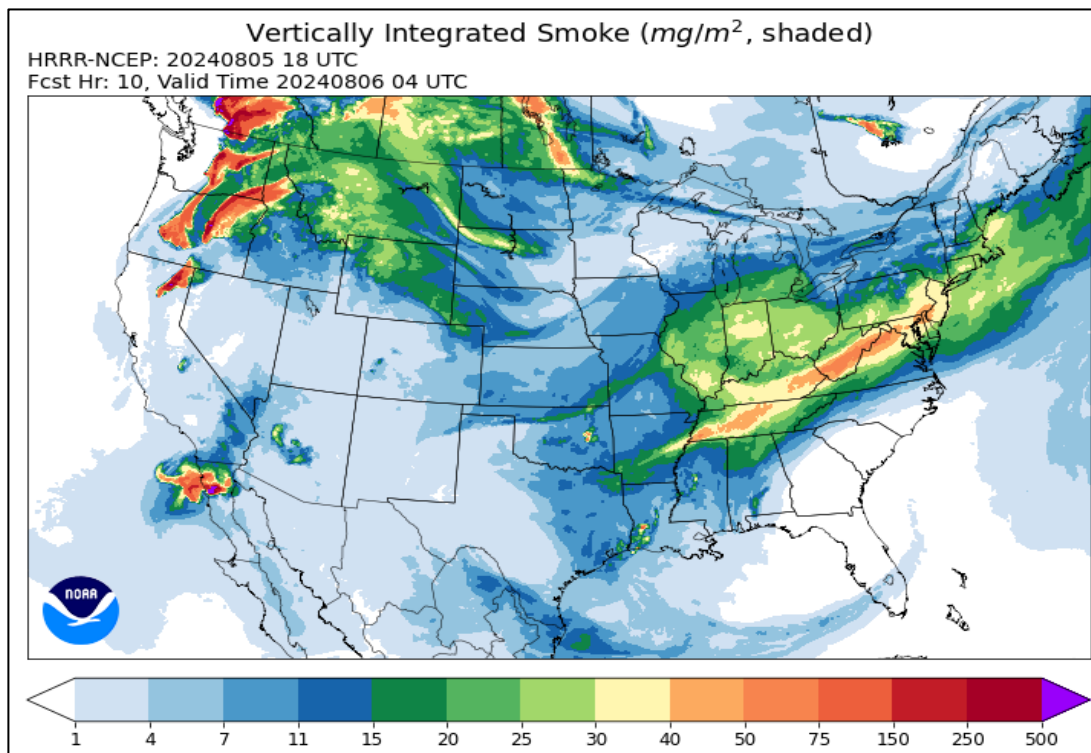
| Monitor name                      | AQS       | Date     | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|-----------------------------------|-----------|----------|------------------------------------|---------------------------------------|
| Columbus - Rocky Ford Drive       | 180050008 | 8/6/2024 | 14.3                               | 13.7                                  |
| Jeffersonville - Bates-Bowyer Ave | 180190010 | 8/6/2024 | 19.2                               | 17.0                                  |
| Muncie - Central HS               | 180350006 | 8/6/2024 | 14.0                               | 13.2                                  |
| Jasper - Post Office              | 180372001 | 8/6/2024 | 16.5                               | 15.7                                  |
| Fishers                           | 180570007 | 8/6/2024 | 15.7                               | 13.8                                  |

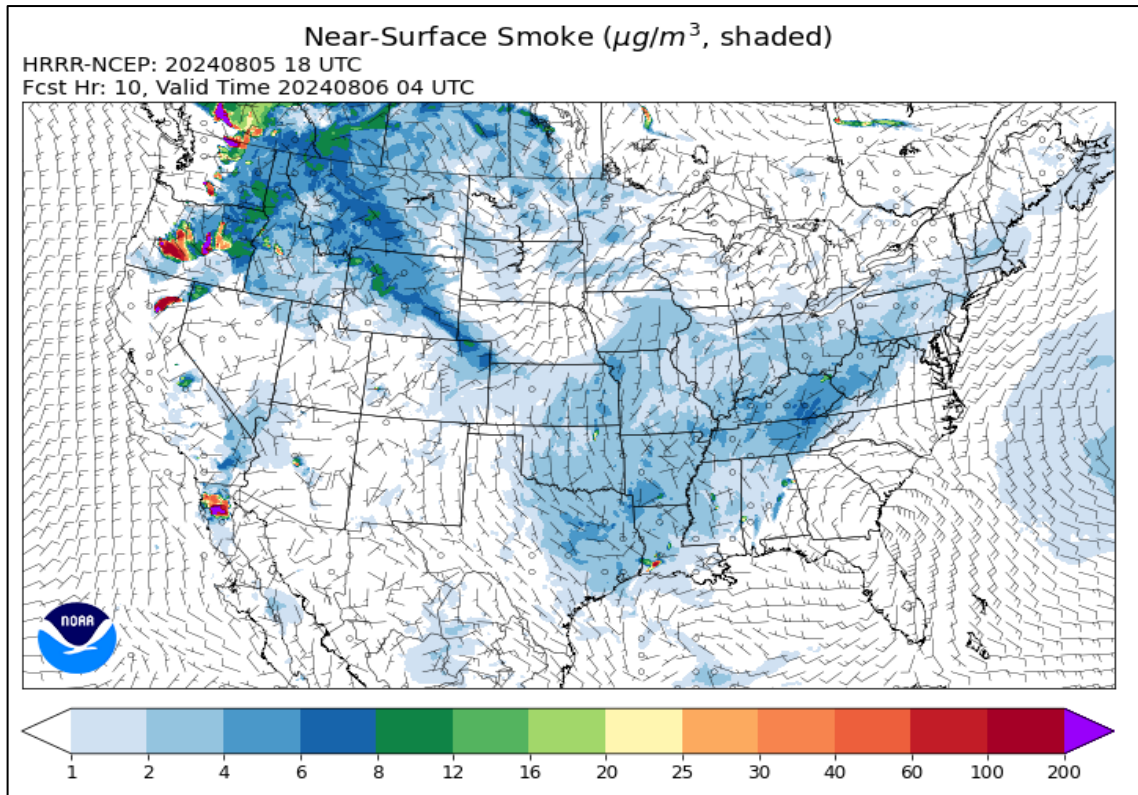
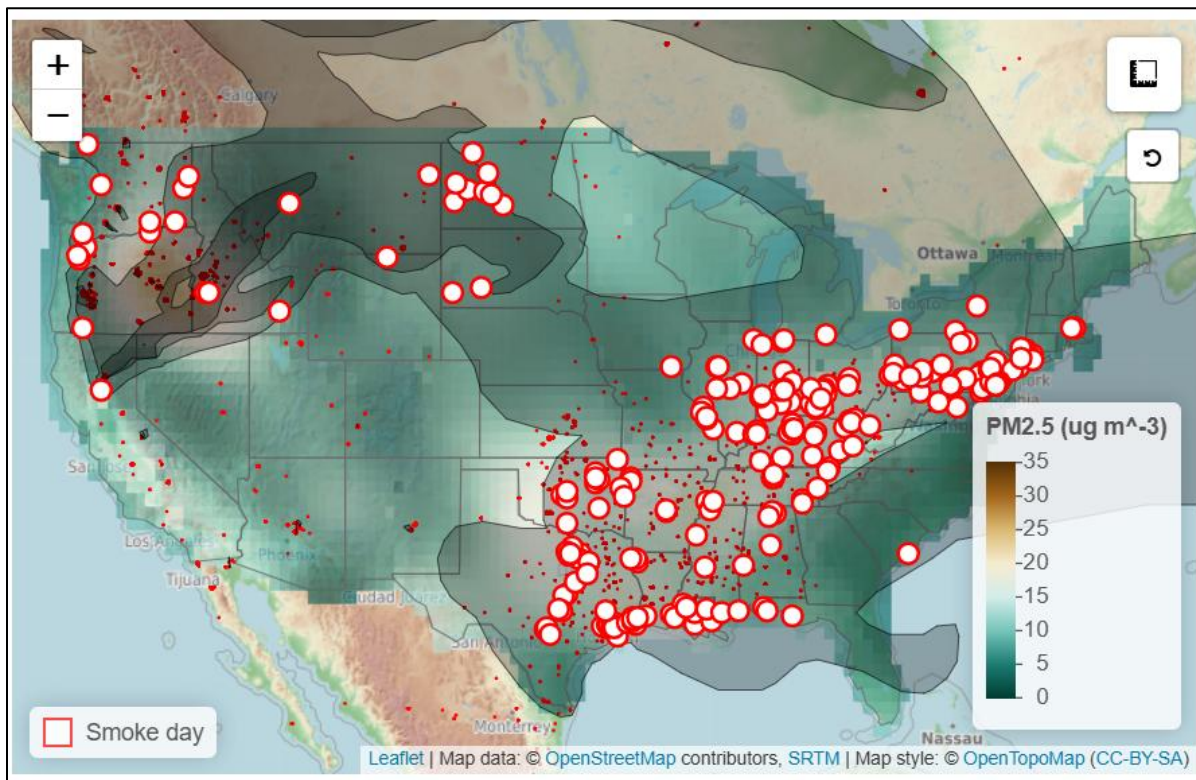
**AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 6, 2024**

## Satellite Imagery with MAIAC AOD – August 6, 2024



## HRRR Smoke - Vertically Integrated Smoke – August 6, 2024



**HRRR Smoke - Near Surface Smoke – August 6, 2024****GAM PMO3 Smoke Output – August 6, 2024**

**NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1500Z August 06, 2024

SMOKE:

Canada/SE CONUS/Atlantic Ocean...

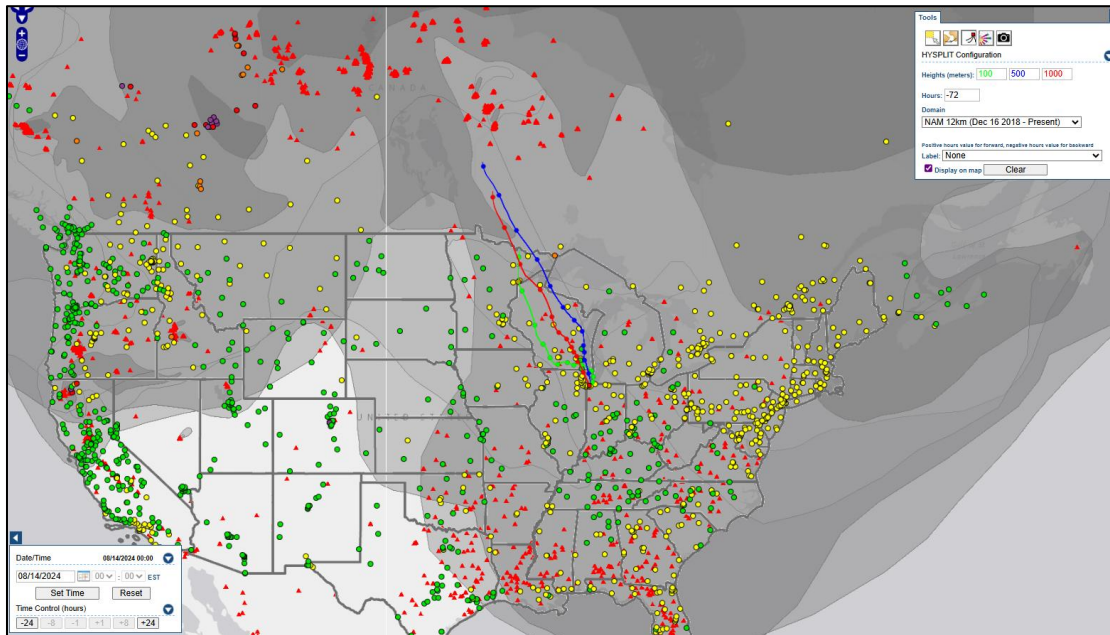
Mixed density smoke attributed to wildfire activity across northwestern and central Canada and the Pacific Northwest region of the United States was seen extending from the NW Yukon and the Northwest Territories, to central Alberta and Saskatchewan, Manitoba, and eastern Ontario. It then extends south over northern CONUS, eventually making its way over the southeast CONUS, and finally reaching further east over the central Atlantic Ocean.

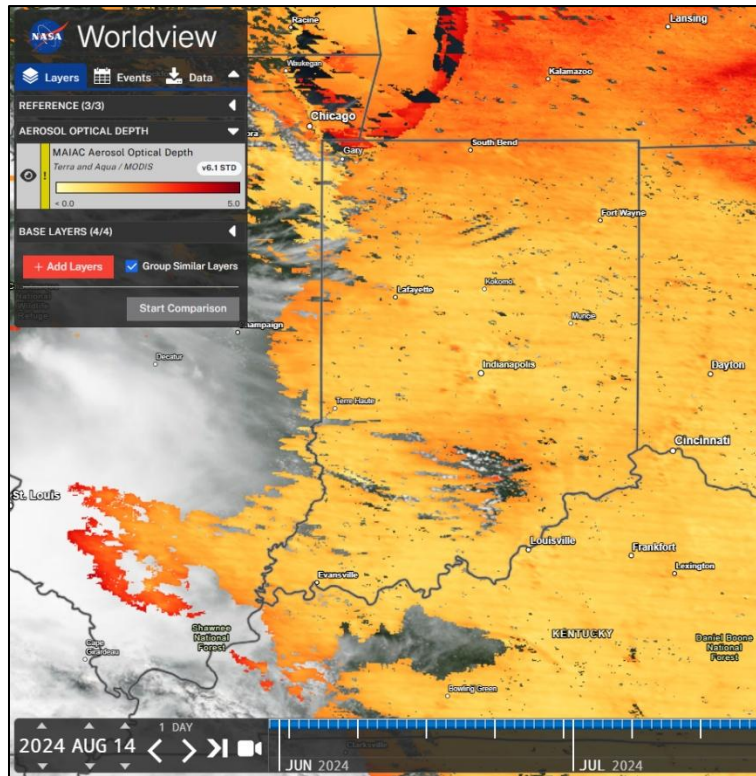
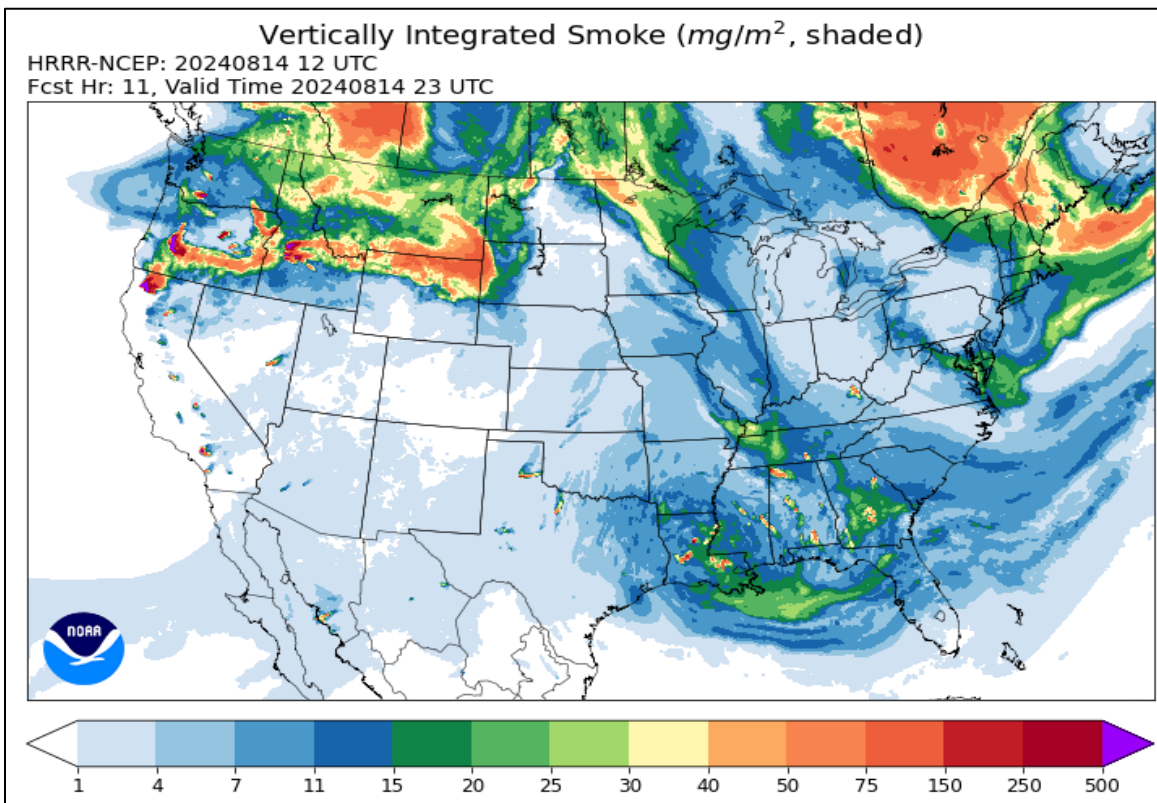
## August 14, 2024

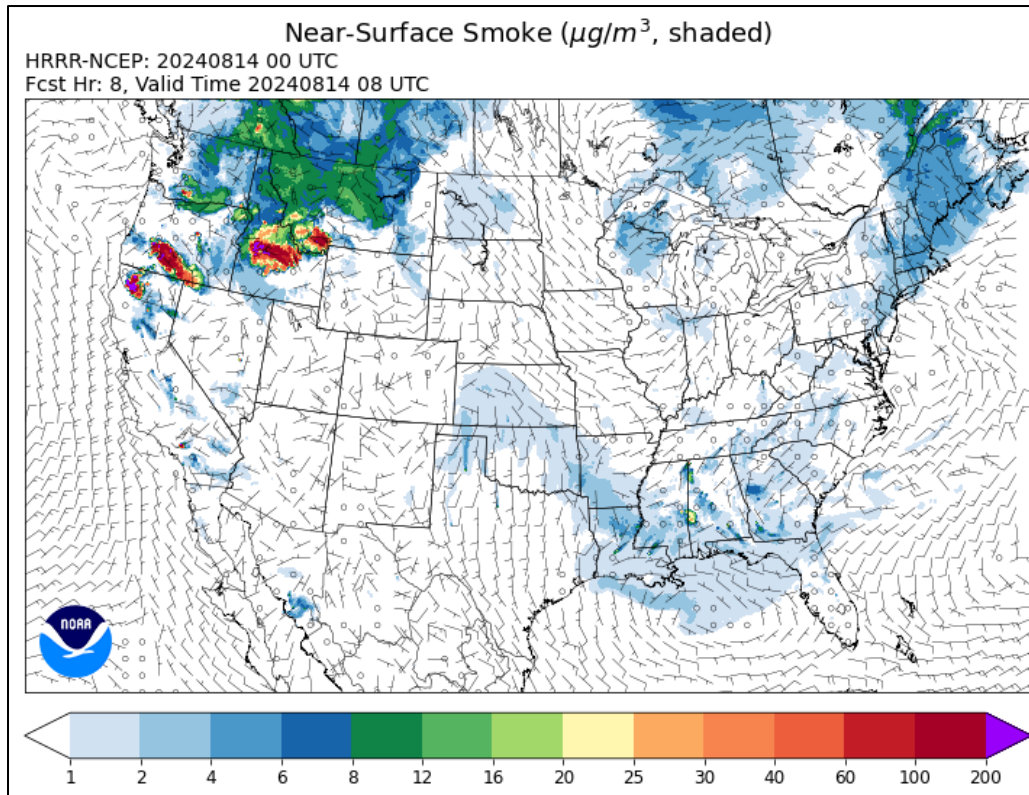
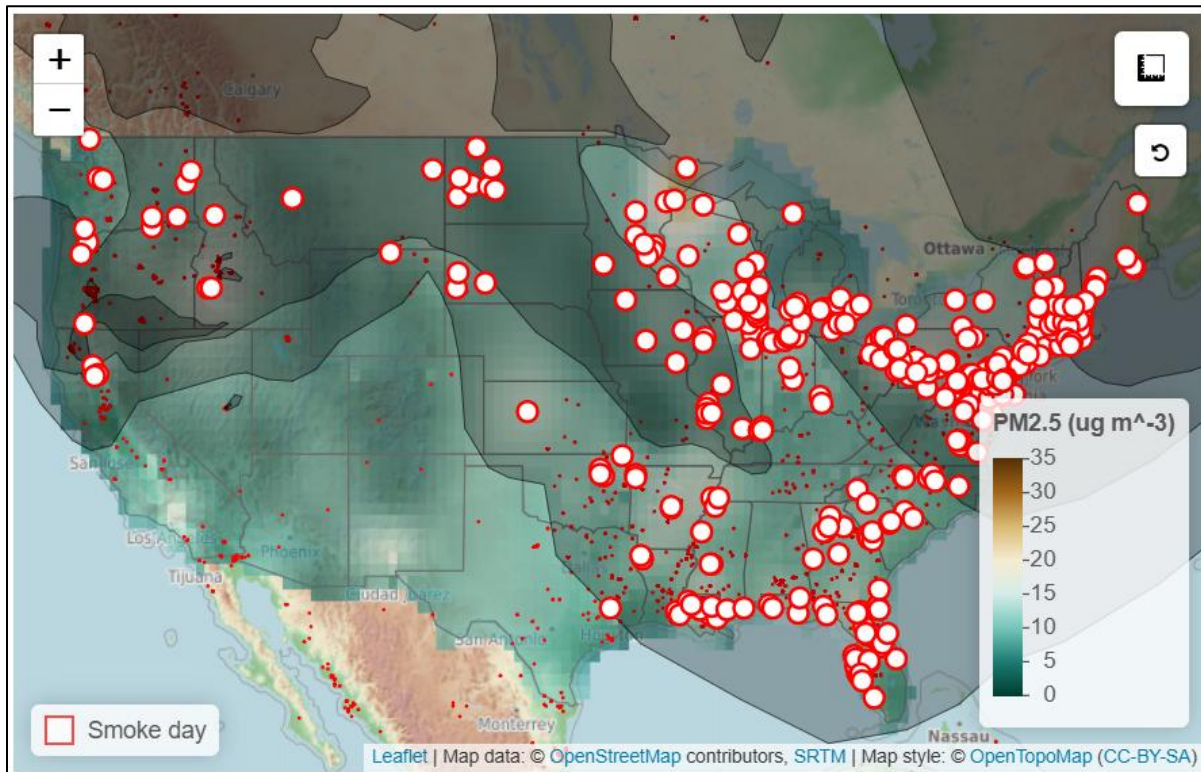
### PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

| Monitor name | AQS       | Date      | Daily average ( $\mu\text{g}/\text{m}^3$ ) | Tier 2 Threshold ( $\mu\text{g}/\text{m}^3$ ) |
|--------------|-----------|-----------|--------------------------------------------|-----------------------------------------------|
| Ogden Dunes  | 181270024 | 8/14/2024 | 15.5                                       | 15.3                                          |

### AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 14, 2024



**Satellite Imagery with MAIAC AOD – August 14, 2024****HRRR Smoke - Vertically Integrated Smoke – August 14, 2024**

**HRRR Smoke - Near Surface Smoke – August 14, 2024****GAM PMO3 Smoke Output – August 14, 2024**

## NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1705Z August 14, 2024

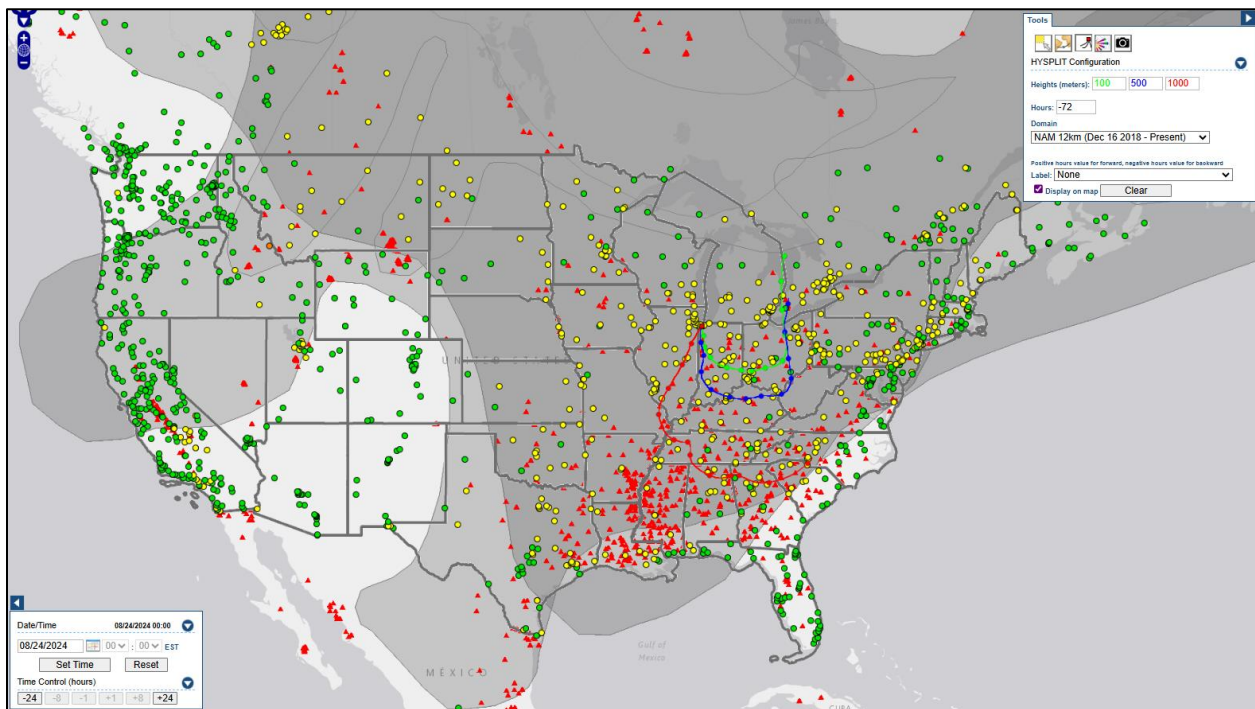
SMOKE:

Canada/Central and Eastern United States/Atlantic Ocean...

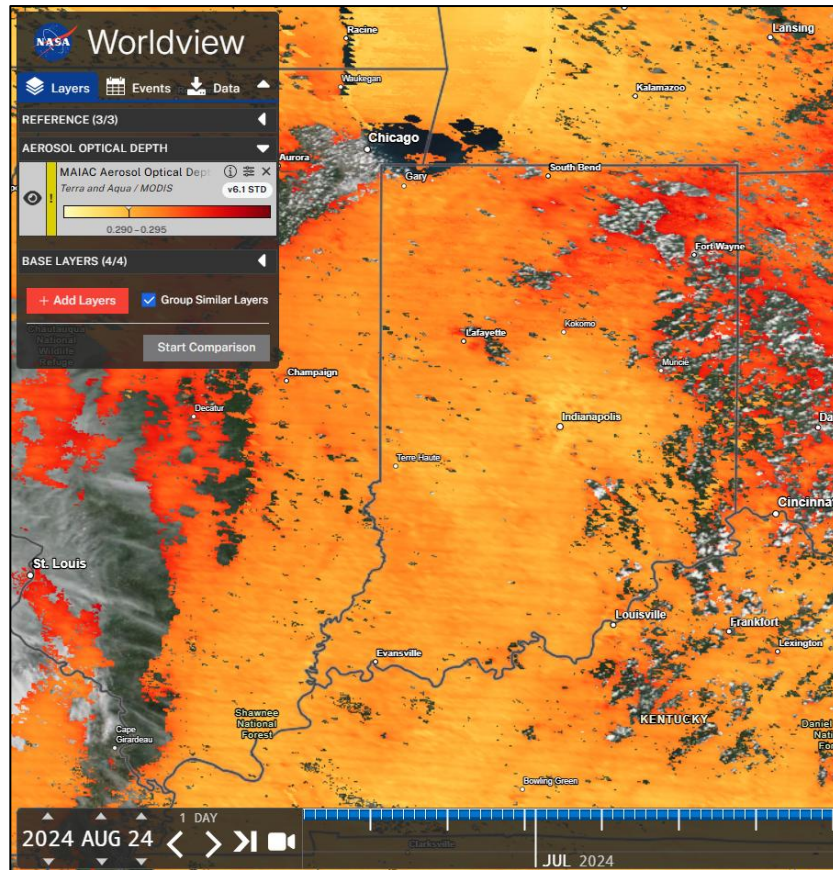
A layer of mixed density smoke attributed to a combination of seasonal burning throughout the United States and the significant amount of wildfire activity across north-central and central Canada, as well as the Pacific Northwest region of the United States, continues to be observed today throughout the majority of Canada and the northern and eastern parts of the United States. This mixed density smoke was seen extending from the central parts of British Columbia and the Northwest Territories, through central Alberta, northern Saskatchewan, central Nunavut, reaching Newfoundland and Labrador, before extending further east over the Labrador Sea and Atlantic Ocean. The area of smoke covering the majority of Canada and the northeastern part of the United States was observed as predominantly thick in density with areas of moderate density smoke seen throughout the Pacific Northwest and portions of the North Central and Midwest regions of the United States.

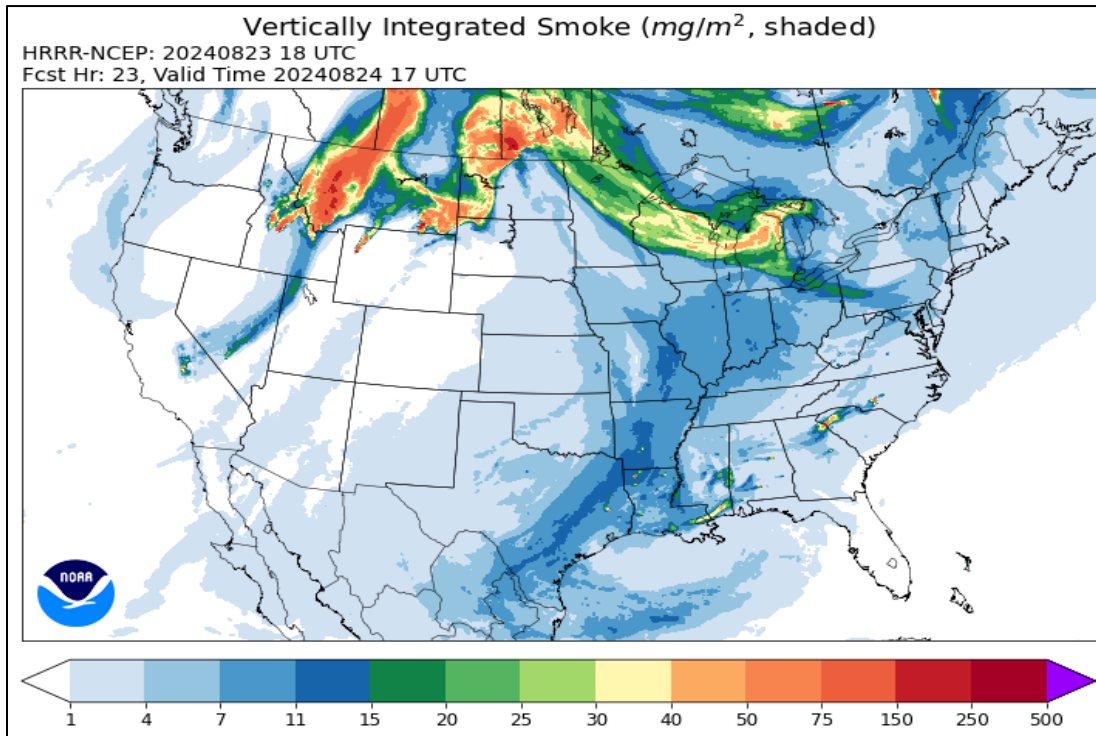
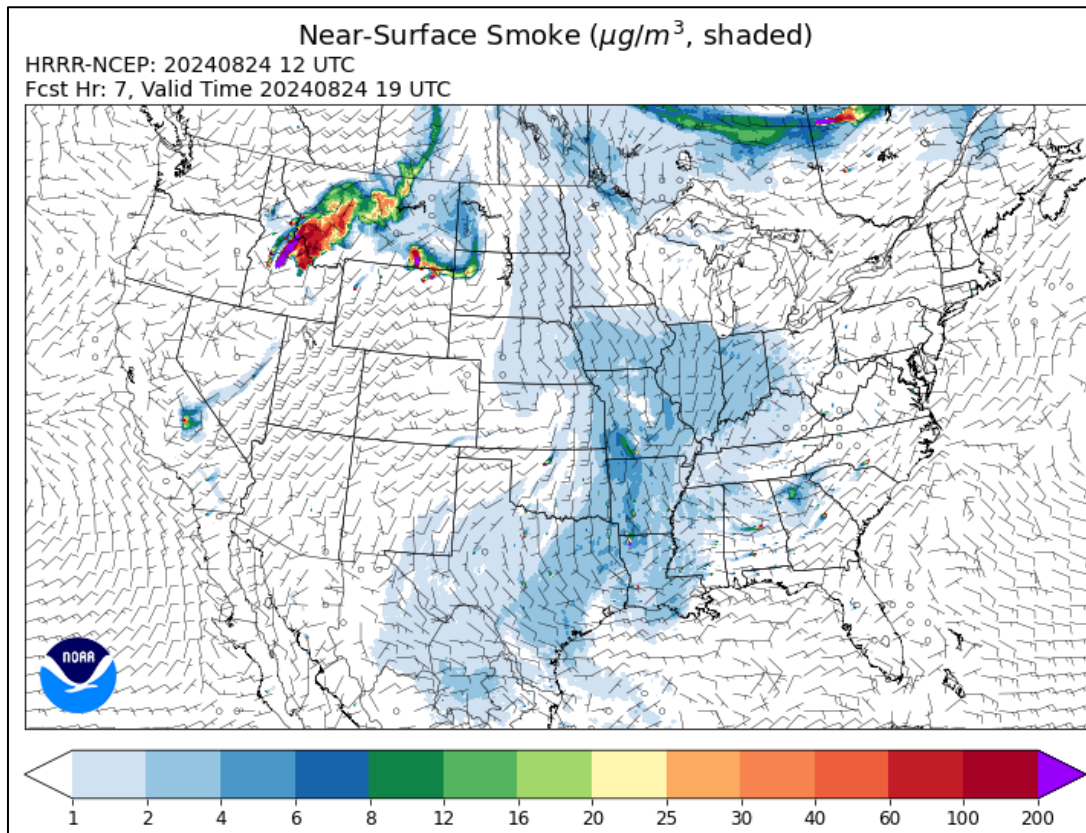
**August 24, 2024****PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke**

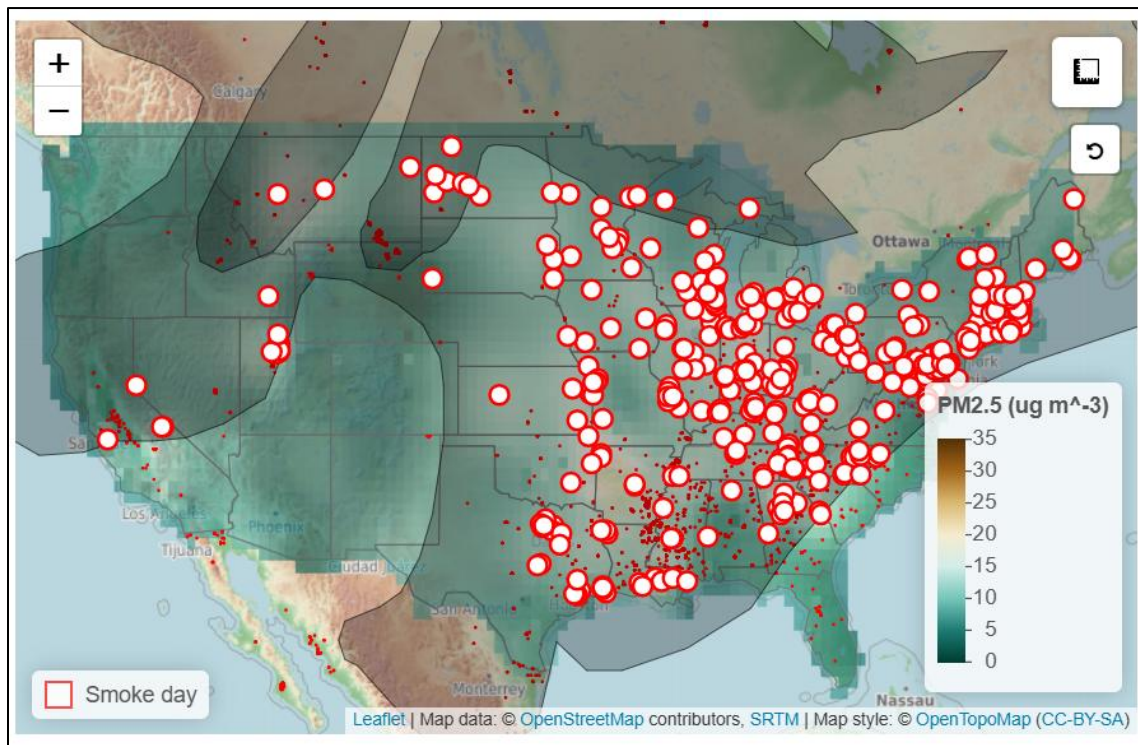
| Monitor name                     | AQS       | Date      | Daily average ( $\mu\text{g}/\text{m}^3$ ) | Tier 2 Threshold ( $\mu\text{g}/\text{m}^3$ ) |
|----------------------------------|-----------|-----------|--------------------------------------------|-----------------------------------------------|
| Muncie - Central HS              | 180350006 | 8/24/2024 | 14.4                                       | 13.2                                          |
| Elkhart - Prairie St             | 180390008 | 8/24/2024 | 17.0                                       | 16.3                                          |
| Fishers                          | 180570007 | 8/24/2024 | 14.1                                       | 13.8                                          |
| Hammond-167th St                 | 180890036 | 8/24/2024 | 16.4                                       | 16.3                                          |
| Michigan City - Marsh Elem. Sch. | 180910011 | 8/24/2024 | 16.2                                       | 15.9                                          |
| Indianapolis - W. 18th St.       | 180970081 | 8/24/2024 | 21.5                                       | 20.9                                          |
| Ogden Dunes                      | 181270024 | 8/24/2024 | 16.0                                       | 15.3                                          |

**AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 24, 2024**

## Satellite Imagery with MAIAC AOD – August 24, 2024



**HRRR Smoke - Vertically Integrated Smoke – August 24, 2024****HRRR Smoke - Near Surface Smoke – August 24, 2024**

**GAM PMO3 Smoke Output – August 24, 2024****NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 1720Z August 24, 2024

SMOKE:

Canada/United States/Gulf of Mexico/Atlantic Ocean...

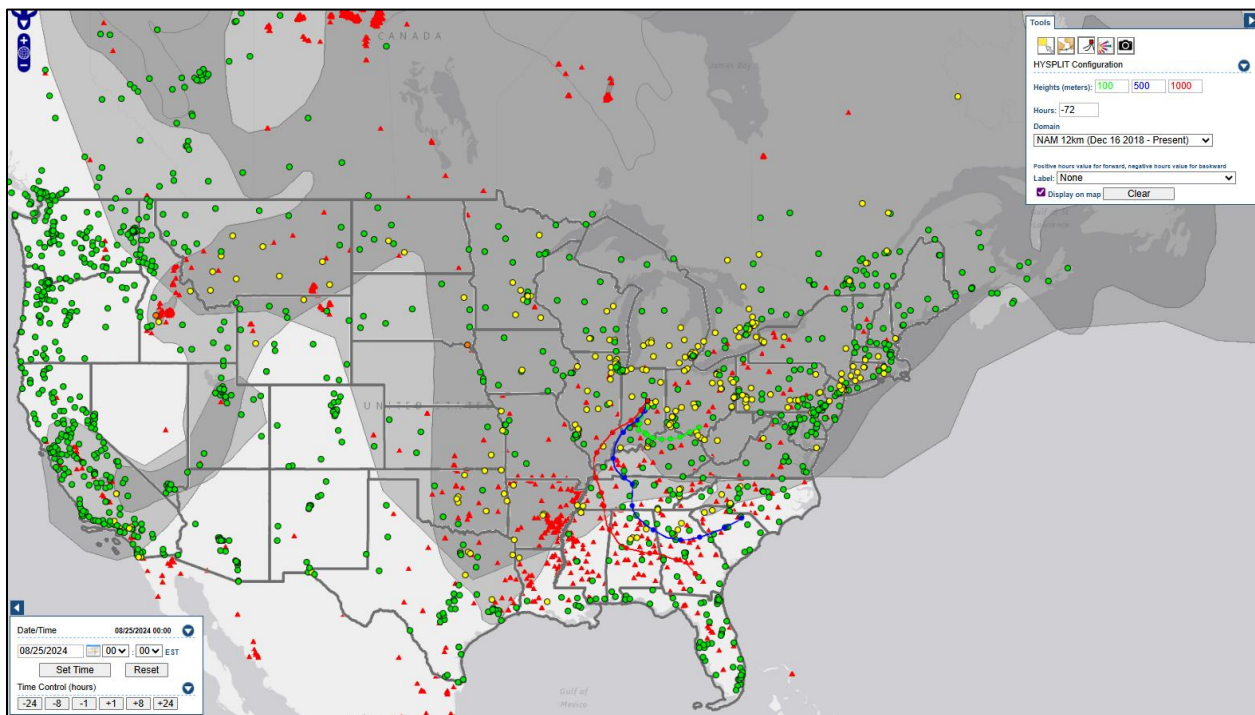
An exceptionally large area of smoke attributed to a combination of the large wildfires across western Canada and seasonal burning throughout the United States, continues to impact significant portions of Canada, the United States, and extending into the north Atlantic Ocean. Heavy density smoke was seen moving north and east into Manitoba and Nunavut from fires in northern Saskatchewan. A strip of remnant heavy density smoke was also observed over the Newfoundland and Labrador and the north Atlantic Ocean. Medium density smoke was seen surrounding the fires in the western Canada, and moving east and southeast across Canada to Ontario and Quebec. Light density smoke was seen blanketing most of Canada and extending south through the Mississippi Valley and the southeast region of the United States.

## August 25, 2024

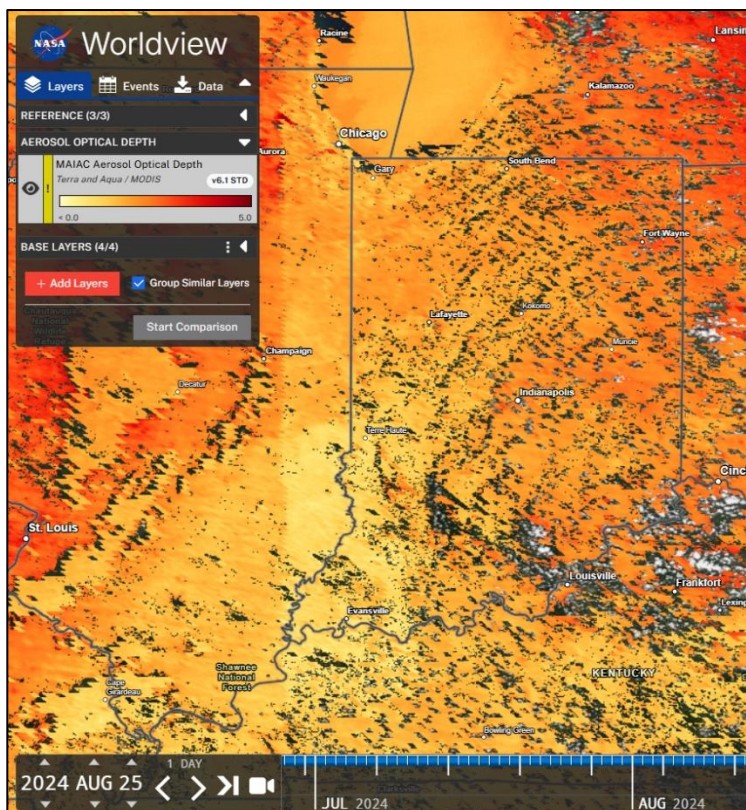
### PM<sub>2.5</sub> Monitoring Sites Impacted by Wildfire Smoke

| Monitor name        | AQS       | Date      | Daily average (µg/m <sup>3</sup> ) | Tier 2 Threshold (µg/m <sup>3</sup> ) |
|---------------------|-----------|-----------|------------------------------------|---------------------------------------|
| Muncie - Central HS | 180350006 | 8/25/2024 | 13.4                               | 13.2                                  |
| Fishers             | 180570007 | 8/25/2024 | 16.2                               | 13.8                                  |

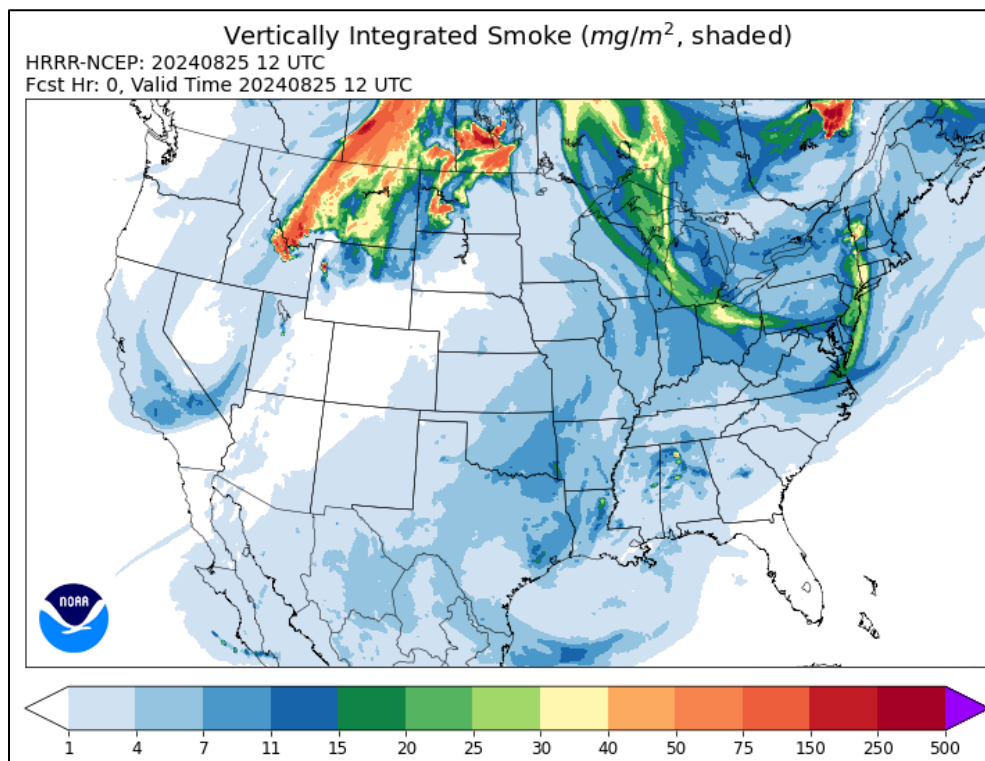
### AirNow Tech Fire/HMS Smoke Map with Backward Trajectories – August 25, 2024

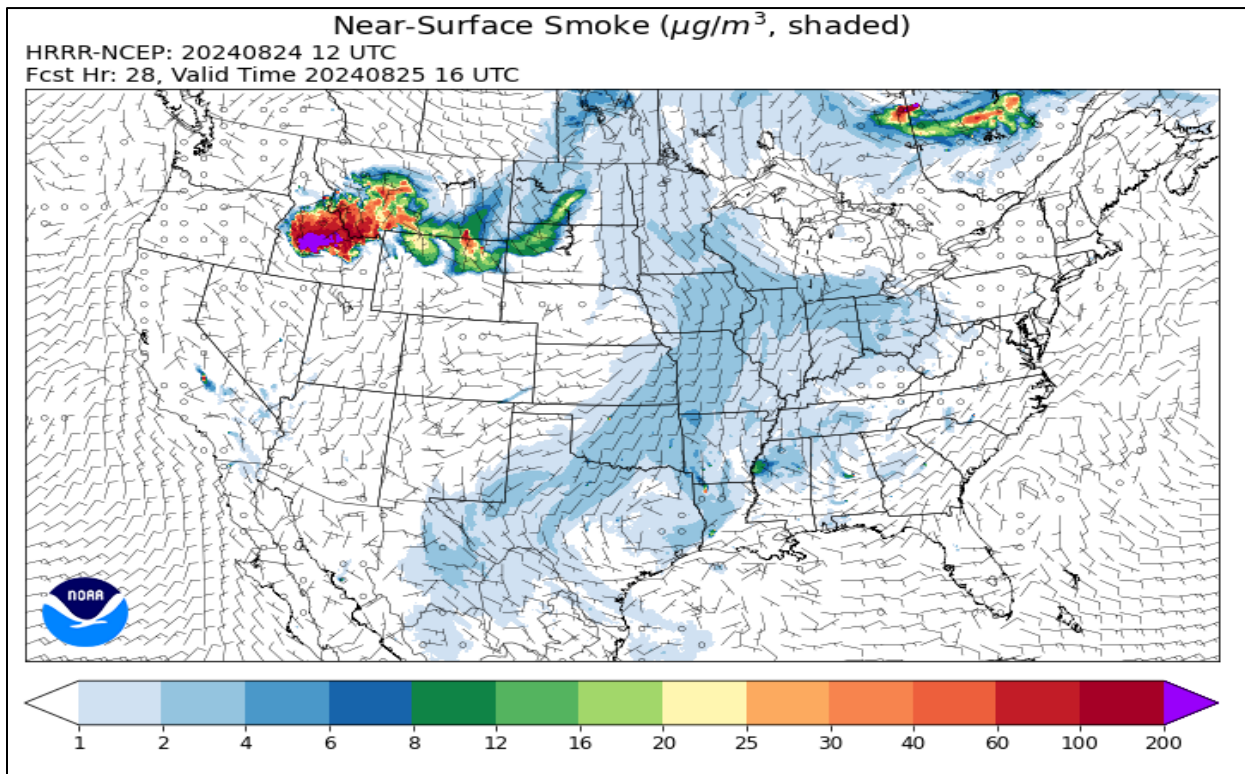
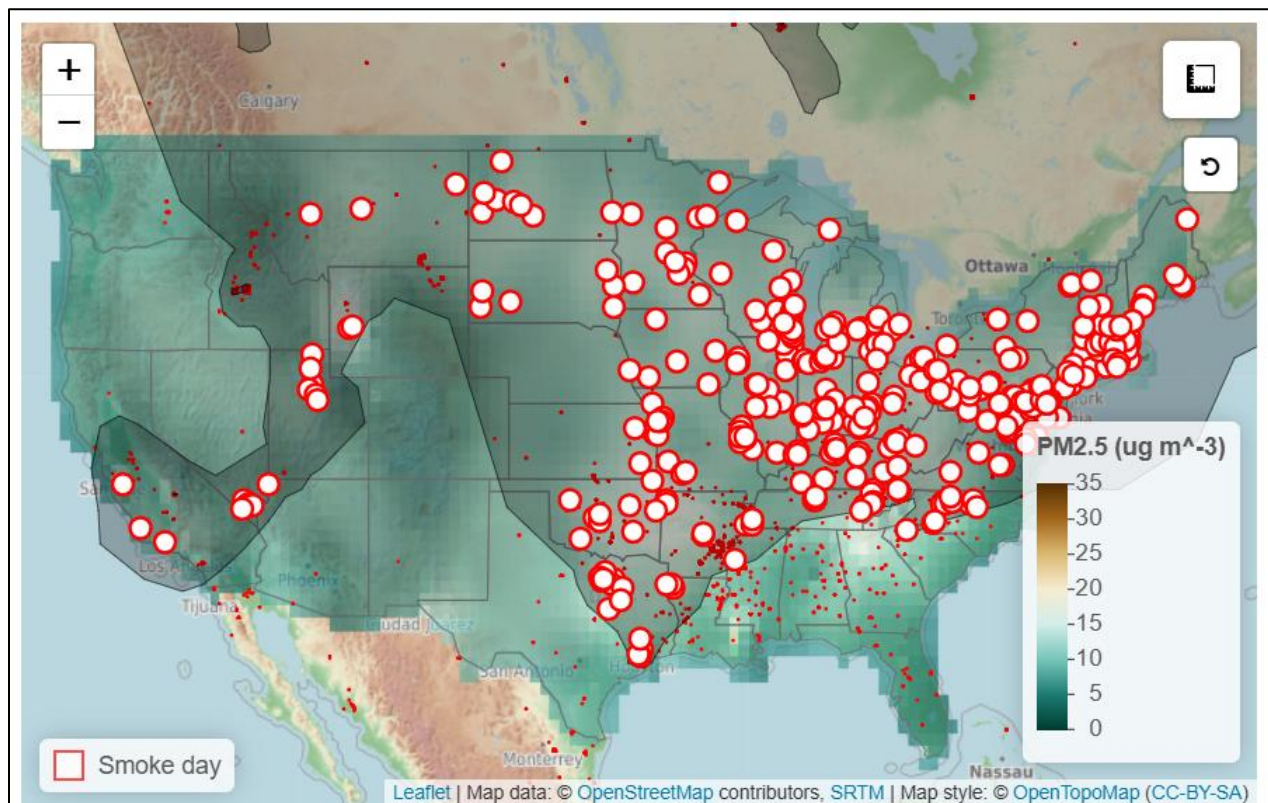


## Satellite Imagery with MAIAC AOD – August 25, 2024



## HRRR Smoke - Vertically Integrated Smoke – August 25, 2024



**HRRR Smoke - Near Surface Smoke – August 25, 2024****GAM PMO3 Smoke Output – August 25, 2024**

## **NOAA Satellite Smoke – 2024 Satellite Smoke Text Excerpts**

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY  
THROUGH 0130Z August 25, 2024

SMOKE:

Canada/United States/Gulf of Mexico/Atlantic Ocean...

A large area of smoke attributed to a combination of wildfires across western Canada and the United States, and seasonal burning throughout the United States, continues to impact most of North America and extend into the north Atlantic Ocean.