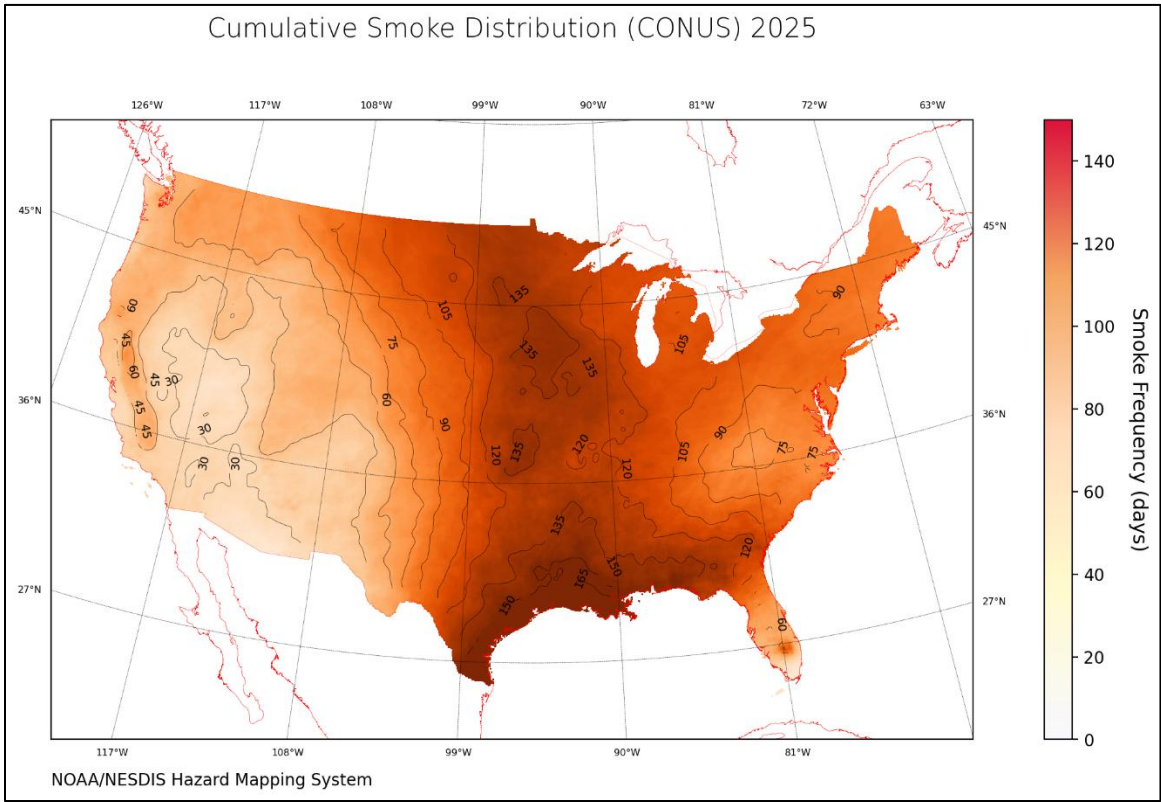


2025



Major 2025 Wildfires

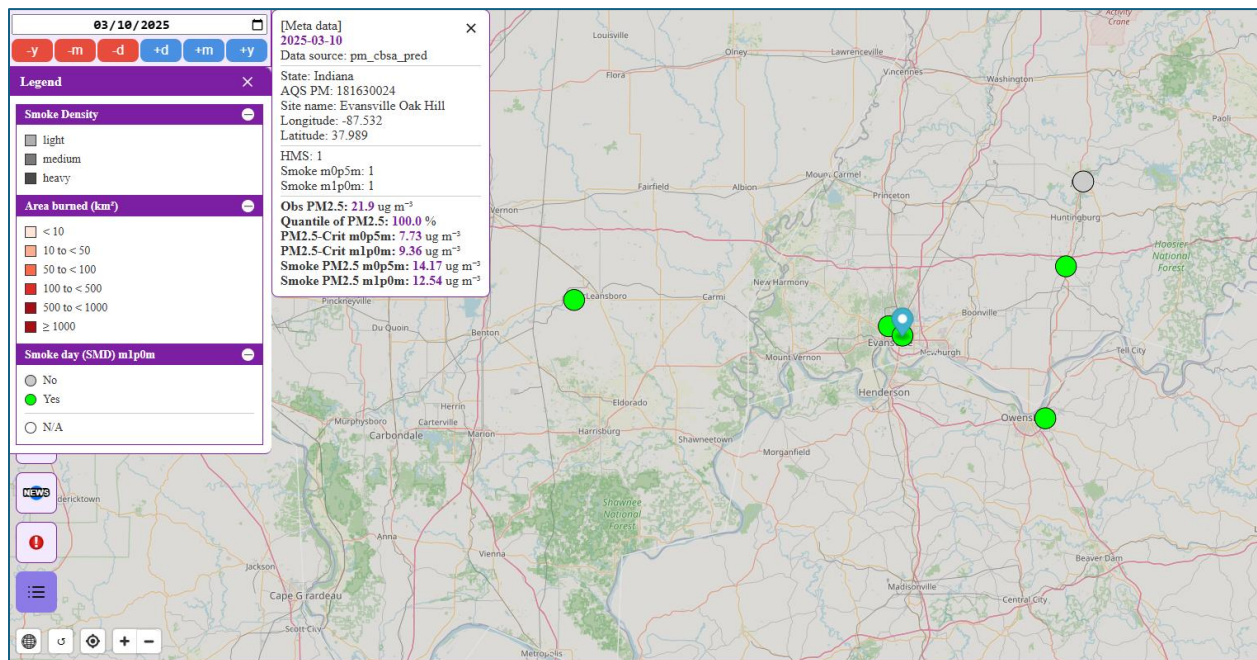
Fire Name	Location
Saddle Gap	Oklahoma
840 Road	Oklahoma
Shoe Fire	Saskatchewan
Camp Fire	Saskatchewan
Flin Flon Fire	Manitoba
Pisew Fire	Manitoba
EA061 Fire	Manitoba
Red Lake 12 Fire	Ontario
Muskeg Fire	Saskatchewan

March 10, 2025

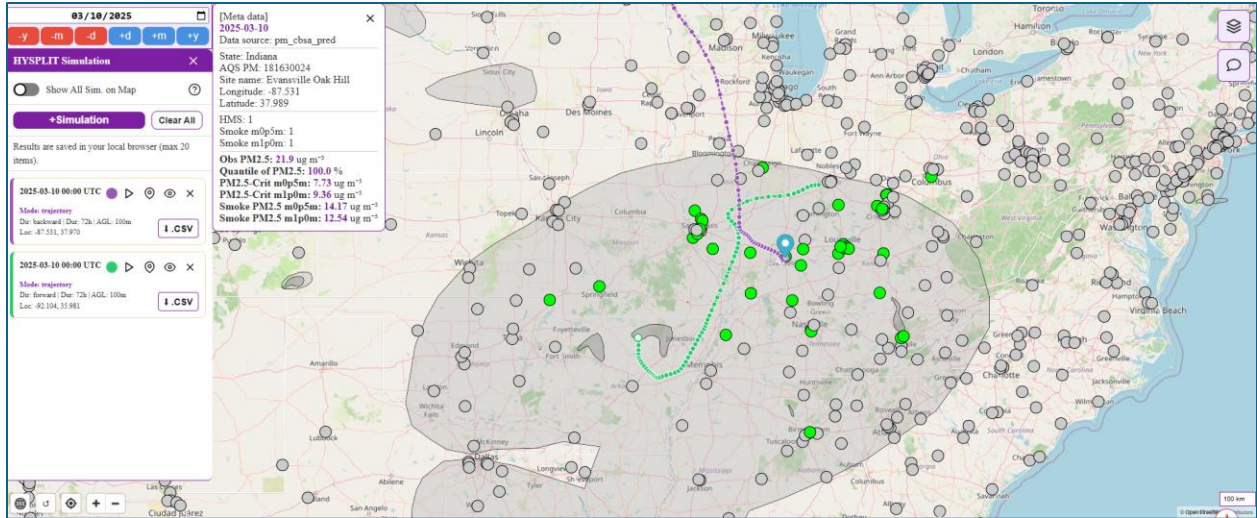
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Evansville - Oak Hill	181630024	3/10/2025	21.9	21.1

Smokelyze Smoke Map with Estimated Smoke Concentration



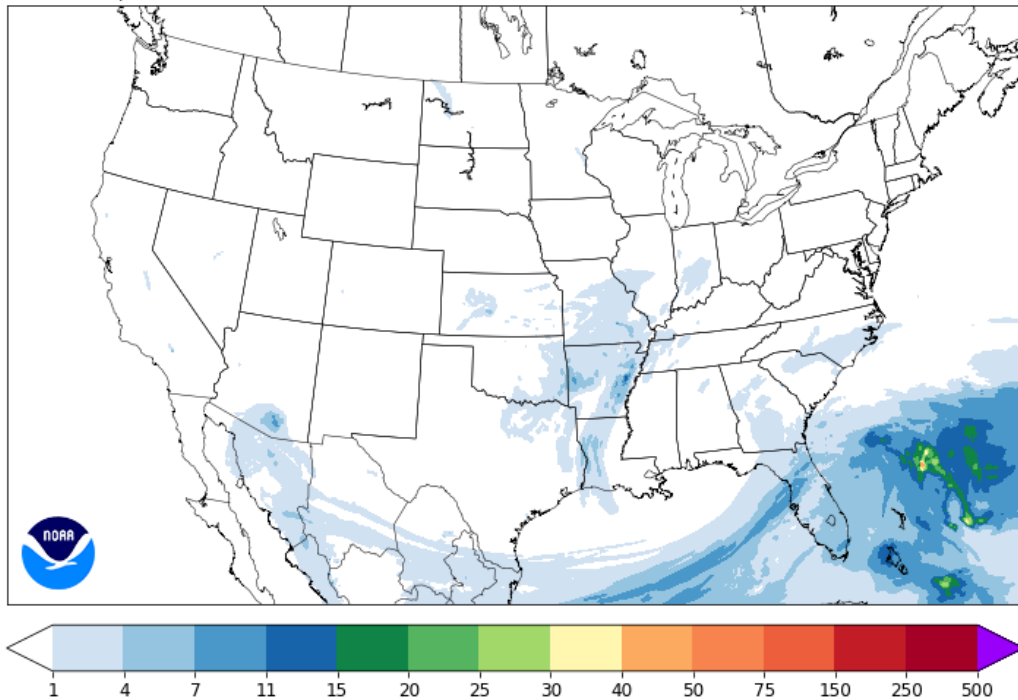
Forward and Backward Trajectories



HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

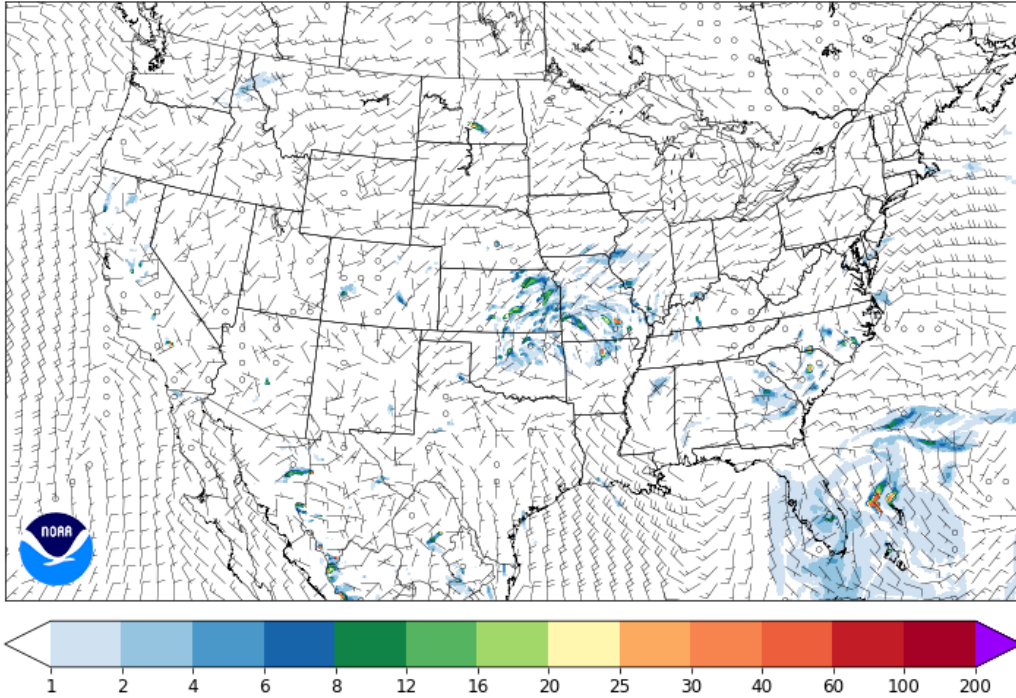
HRRR-NCEP: 20250310 00 UTC
Fcst Hr: 13, Valid Time 20250310 13 UTC



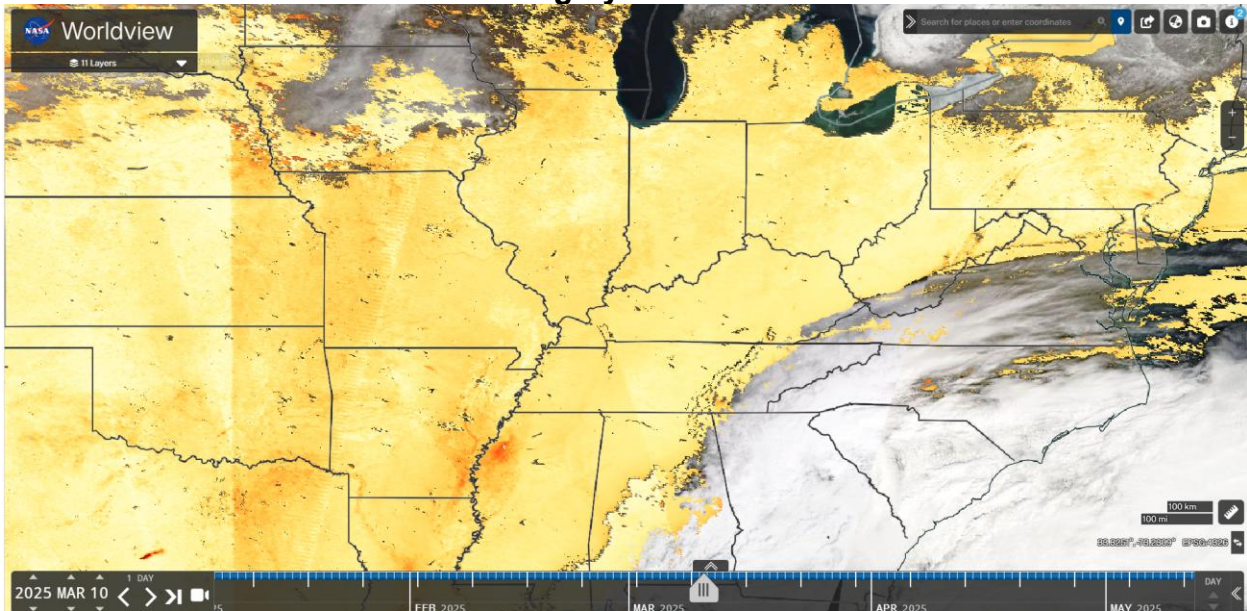
HRRR Smoke – Near Surface Smoke

Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250310 00 UTC
Fcst Hr: 3, Valid Time 20250310 03 UTC



Satellite Imagery with MAIAC AOD



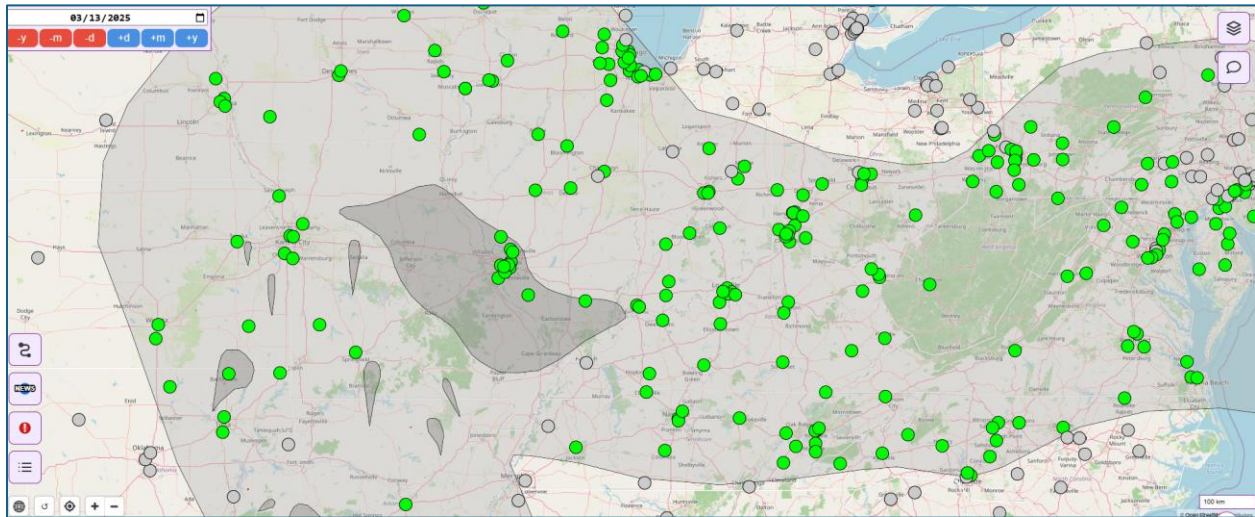
NOAA Satellite Smoke Forecast

Across the Central Mississippi Valley, smoke from prescribed fires, wildfires, and industrial emissions was observed drifting eastward from

Oklahoma and Texas into Missouri, Kentucky, and Tennessee. The smoke appeared to be light to moderate in density, with denser concentrations lingering closer to the source regions in eastern Oklahoma and Arkansas.

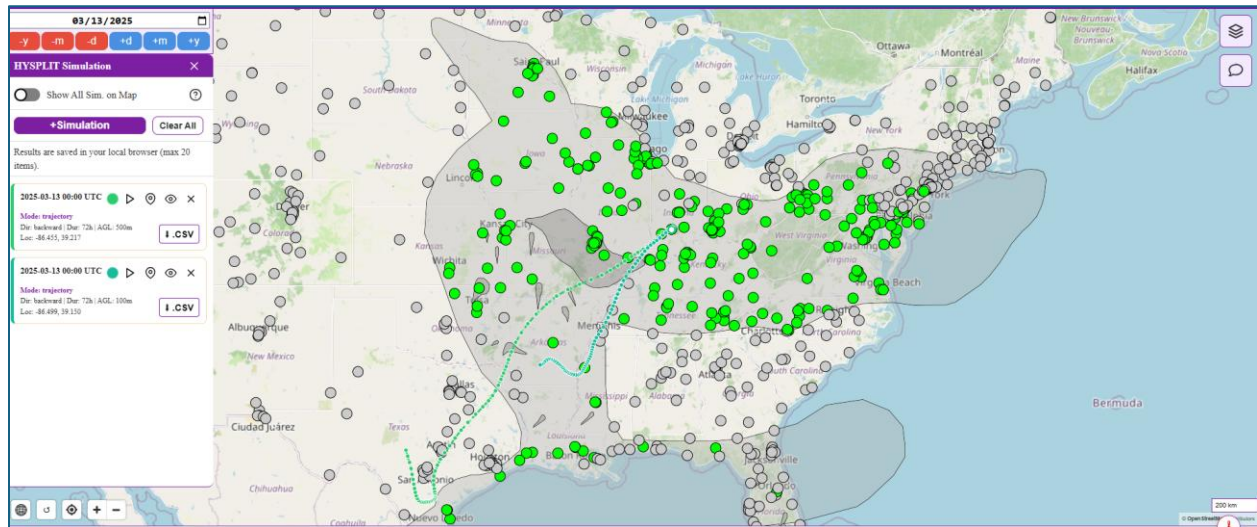
March 13, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Jeffersonville - Bates-Bowyer Ave	180190010	3/13/2025	23.0	16.6
Plummer	180550001	3/13/2025	15.1	13.2
Indianapolis - Washington Park	180970078	3/13/2025	18.1	18.1
Bloomington - Binford	181050003	3/13/2025	20.0	12.8
Dale-N Wallace St	181470011	3/13/2025	15.6	13.0
Evansville - Buena Vista	181630021	3/13/2025	20.1	16.4
Evansville - Oak Hill	181630024	3/13/2025	21.3	21.1

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Jeffersonville - Bates-Bowyer Ave	180190010	3/13/2025	23.0	11.2
Plummer	180550001	3/13/2025	15.1	7.1
Indianapolis - Washington Park	180970078	3/13/2025	18.1	7.6
Bloomington - Binford	181050003	3/13/2025	20.0	11.7
Dale-N Wallace St	181470011	3/13/2025	15.6	6.6
Evansville - Buena Vista	181630021	3/13/2025	20.1	9.3
Evansville - Oak Hill	181630024	3/13/2025	21.3	11.9

Backward Trajectories

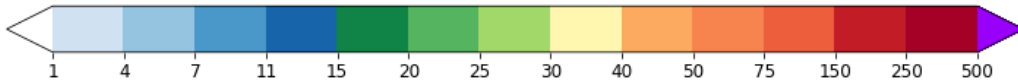
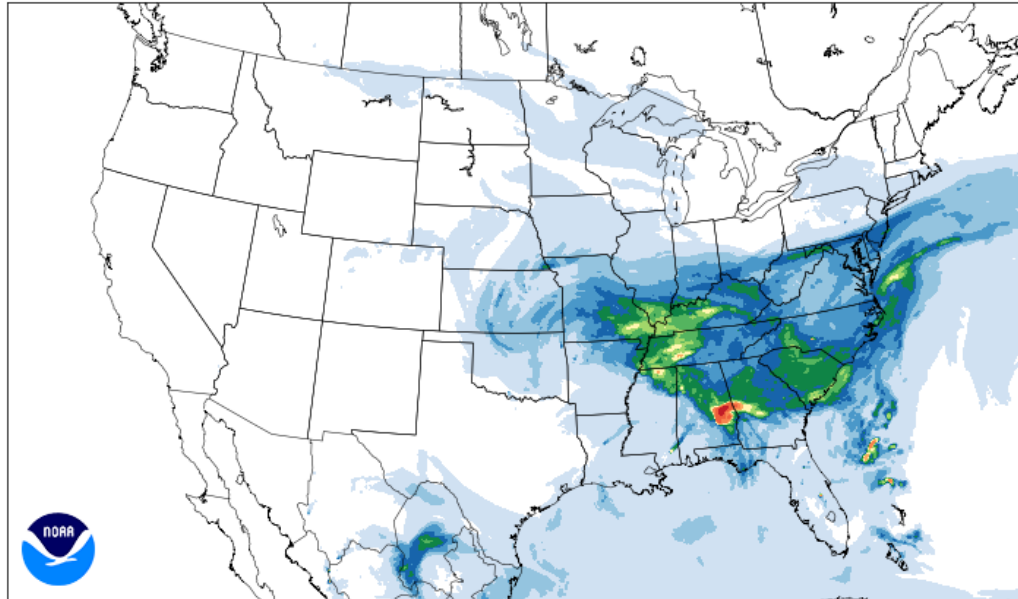


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250313 00 UTC

Fcst Hr: 14, Valid Time 20250313 14 UTC

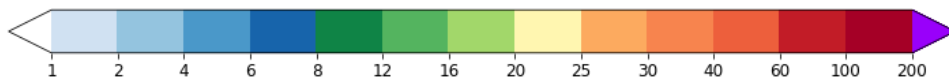
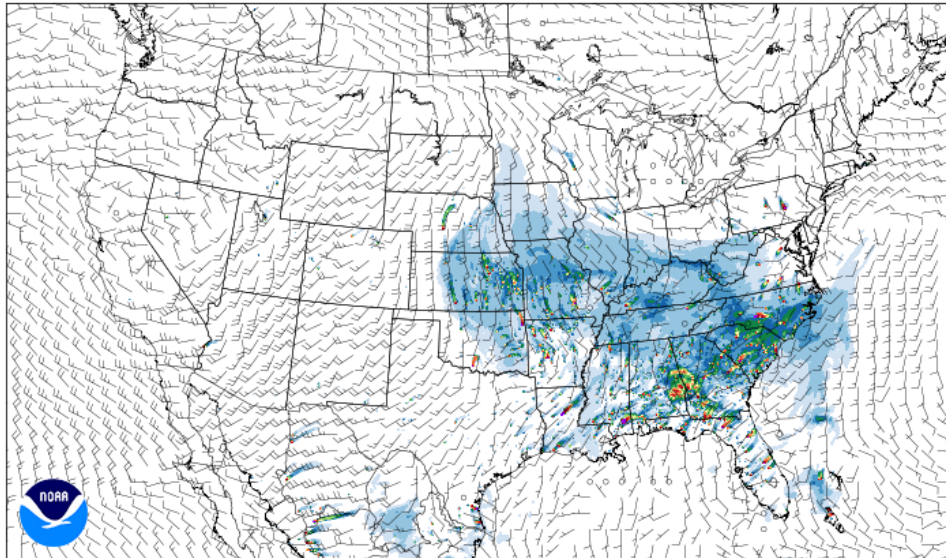


HRRR Smoke – Near Surface Smoke

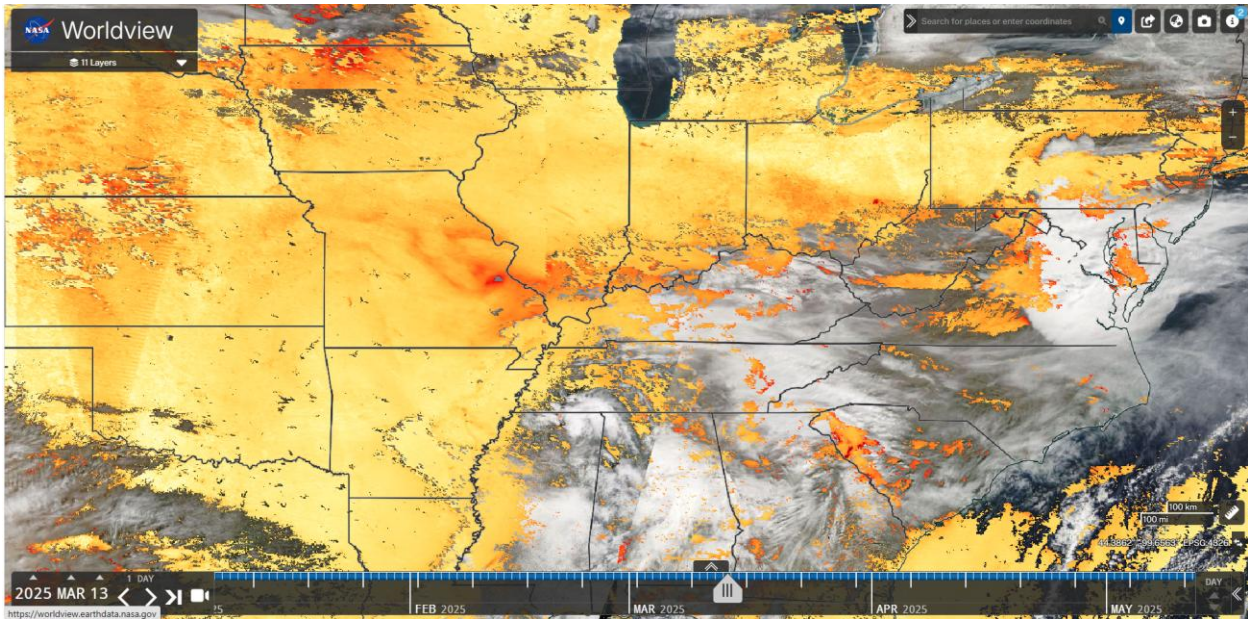
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250313 00 UTC

Fcst Hr: 21, Valid Time 20250313 21 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0000Z March 13, 2025

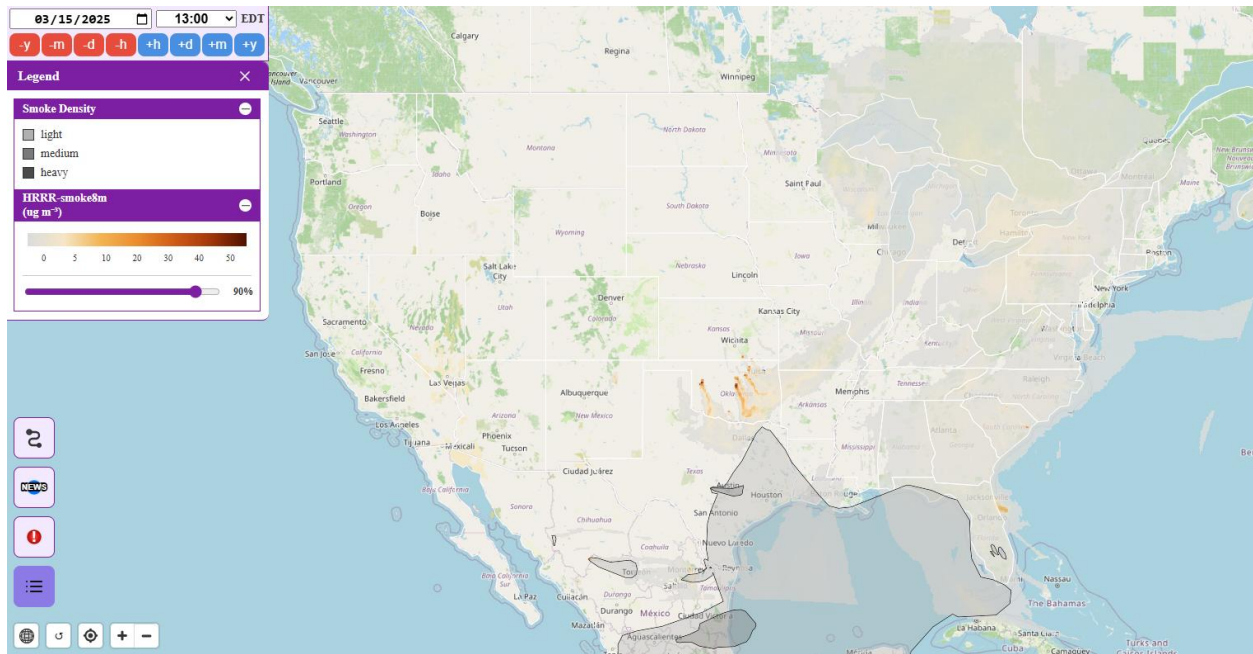
SMOKE:

Southeast and Midwest CONUS...

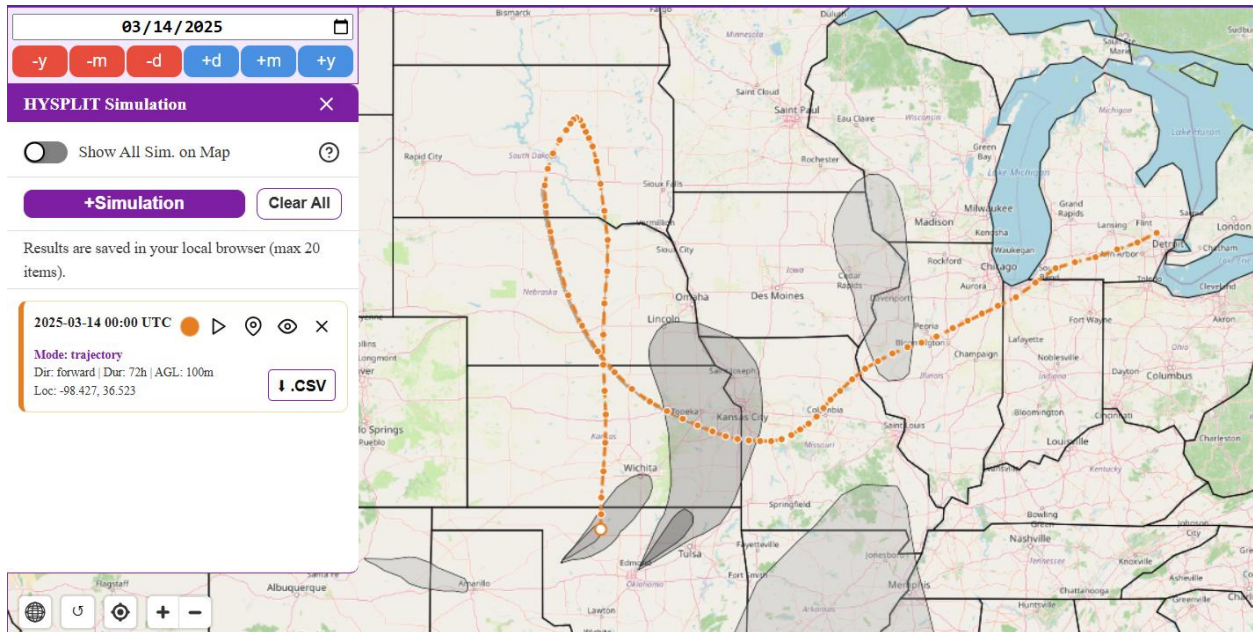
High fire activity was seen across the Midwest and Southeastern regions of the United States. Smoke density from these fires ranged from light to heavy and were generally emitting towards the north-northeast across the Southeastern U.S. towards the northwestern Atlantic Ocean.

March 15, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

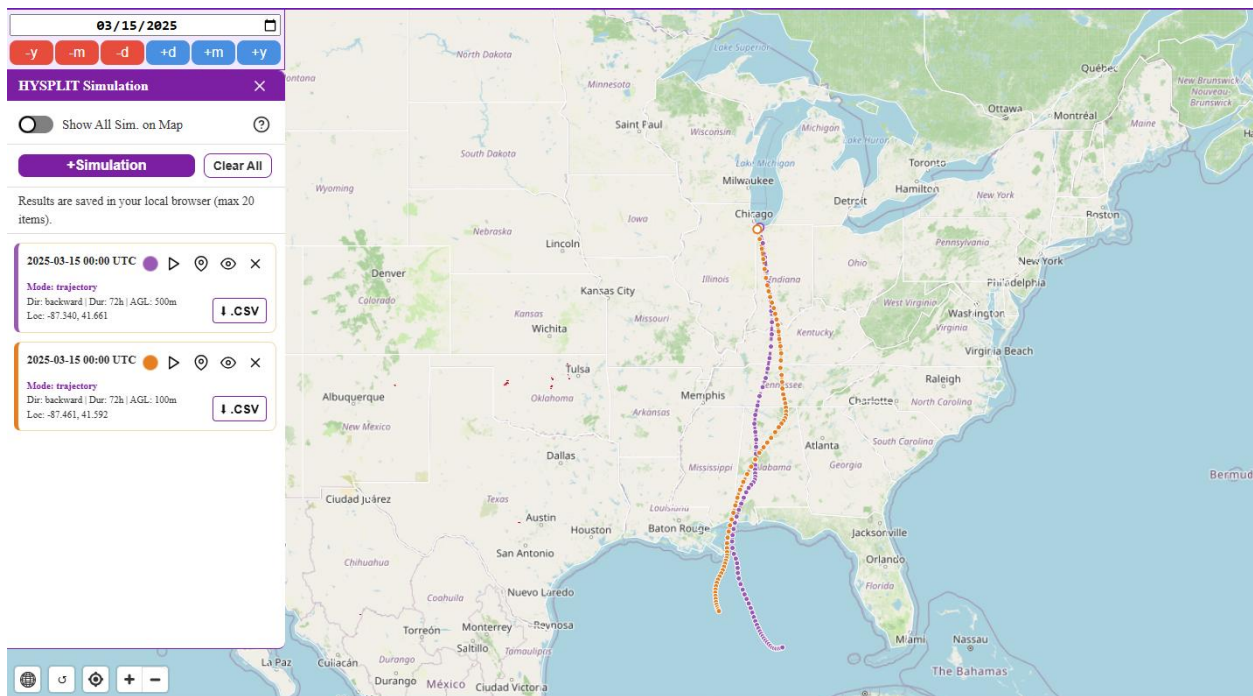
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
East Chicago - Marina	180890034	3/15/2025	28.3	18.0
Hammond-167th St	180890036	3/15/2025	27.6	16.2
Michigan City - Marsh Elem. Sch.	180910011	3/15/2025	42.5	15.9

Smokelyze-HRRR Near Surface Smoke Map

Forward Trajectories From Oklahoma Fires



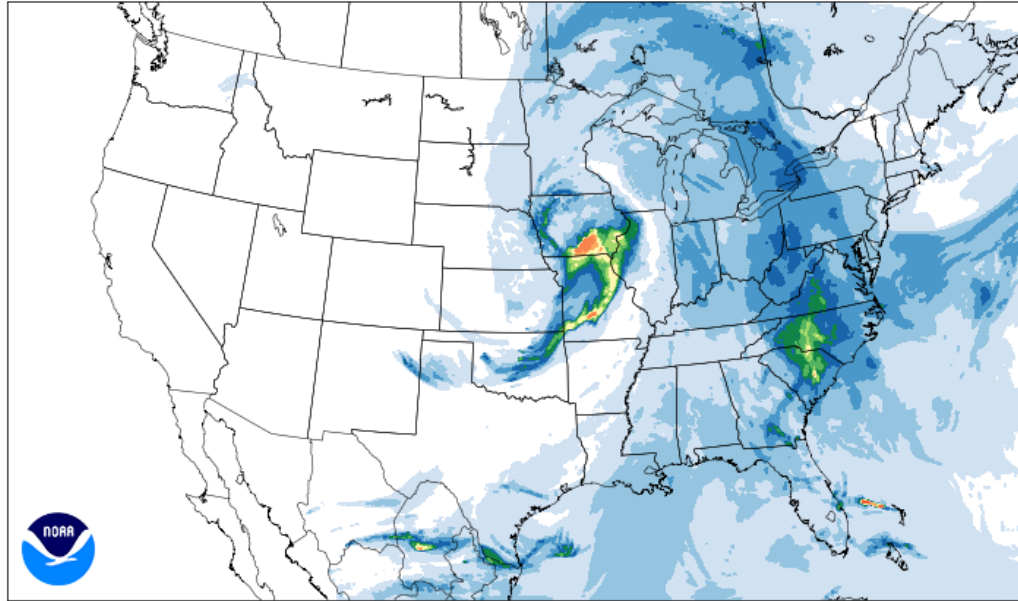
Backward Trajectories



HRRR Smoke - Vertically Integrated SmokeVertically Integrated Smoke (mg/m^2 , shaded)

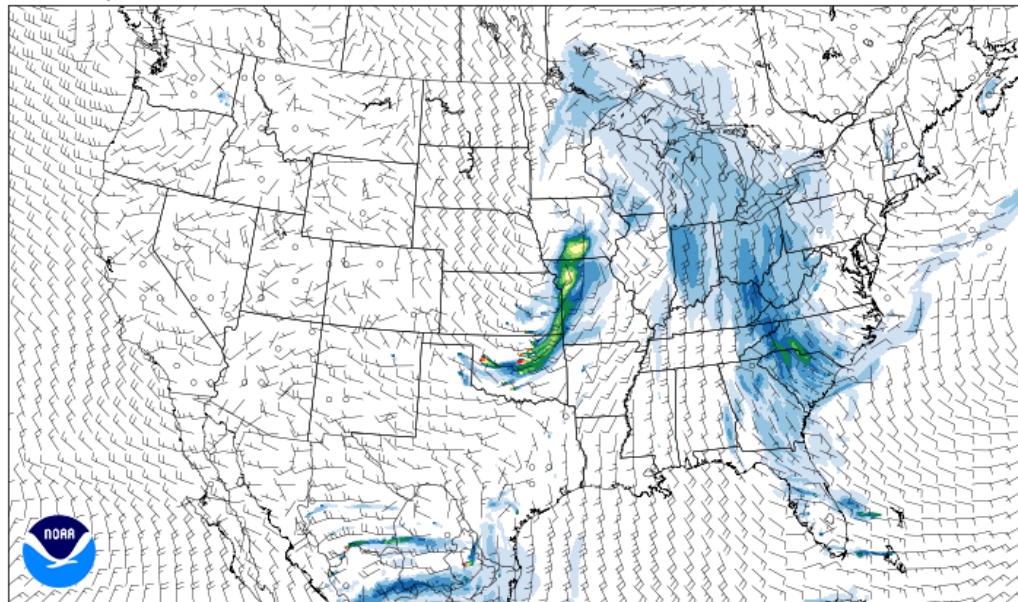
HRRR-NCEP: 20250315 00 UTC

Fcst Hr: 5, Valid Time 20250315 05 UTC

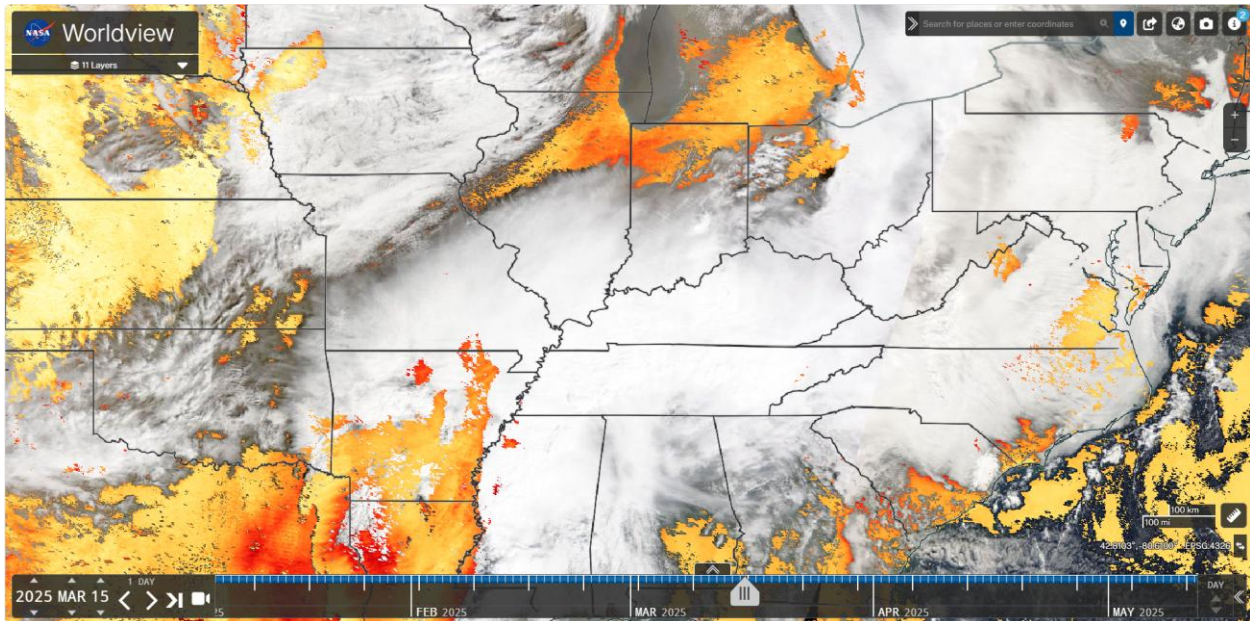
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250315 00 UTC

Fcst Hr: 6, Valid Time 20250315 06 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0005Z March 15, 2025

SMOKE:

Great Plains/Texas/Oklahoma...

Several large, newly ignited and fast moving wildfires were observed across the Great Plains region this afternoon and into the evening. Wind-fueled fires located in northern Texas, northeastern and central Oklahoma were seen producing large plumes of moderate to thick smoke that were blowing northeast across their respective states while mixing with blowing dust present in the area before continuing north into Kansas.

AEROSOL/SMOKE:

Central and Southern Mexico/Pacific Ocean/Western Gulf of America/Bay of Campeche...

An area of predominantly light density smoke and aerosols, attributed to scattered agricultural burning, volcanic emissions, and industrial sources throughout Central and Southern Mexico was observed this evening

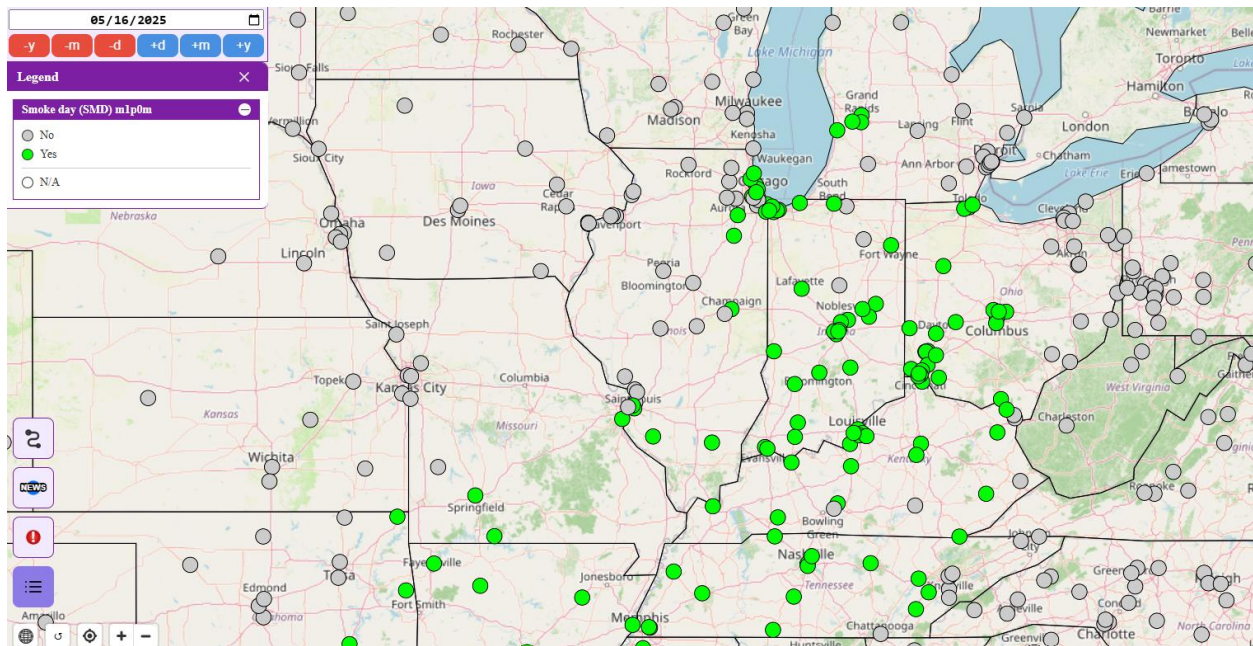
along the southwestern coast of Mexico near northern Central America. It was then seen extending west into the Pacific Ocean and east into the western Gulf of America and the Bay of Campeche.

May 16, 2025

PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

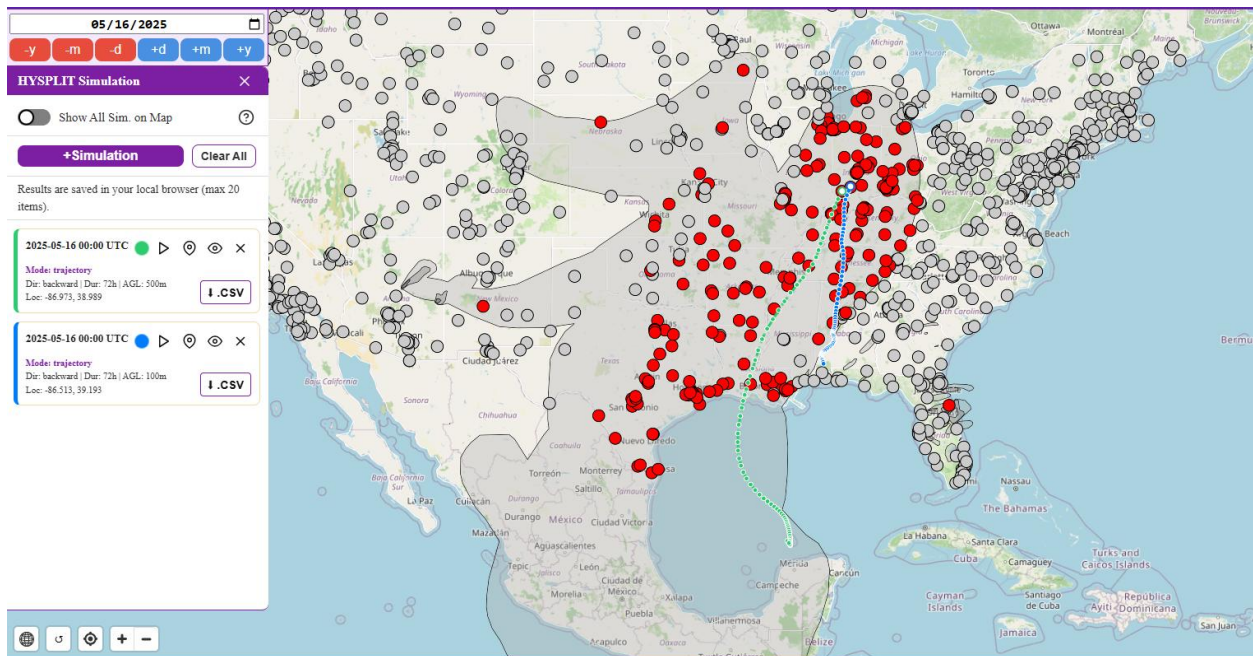
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Plummer	180550001	5/16/2025	15.2	13.2
Fishers	180570007	5/16/2025	16.2	13.8
Bloomington - Binford	181050003	5/16/2025	13.3	12.8

Smokelyze Smoke Map with Estimated Smoke Concentration

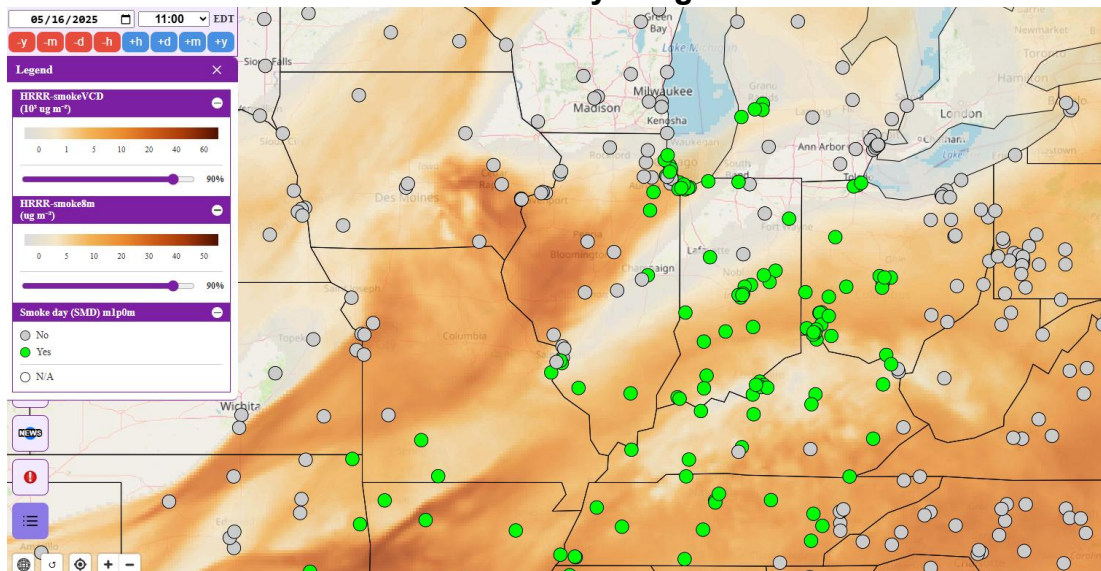


Monitor Name	AQS	Date	Daily Average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
Plummer	180550001	5/16/2025	15.2	8.9
Fishers	180570007	5/16/2025	16.2	9.0
Bloomington - Binford	181050003	5/16/2025	13.3	7.1

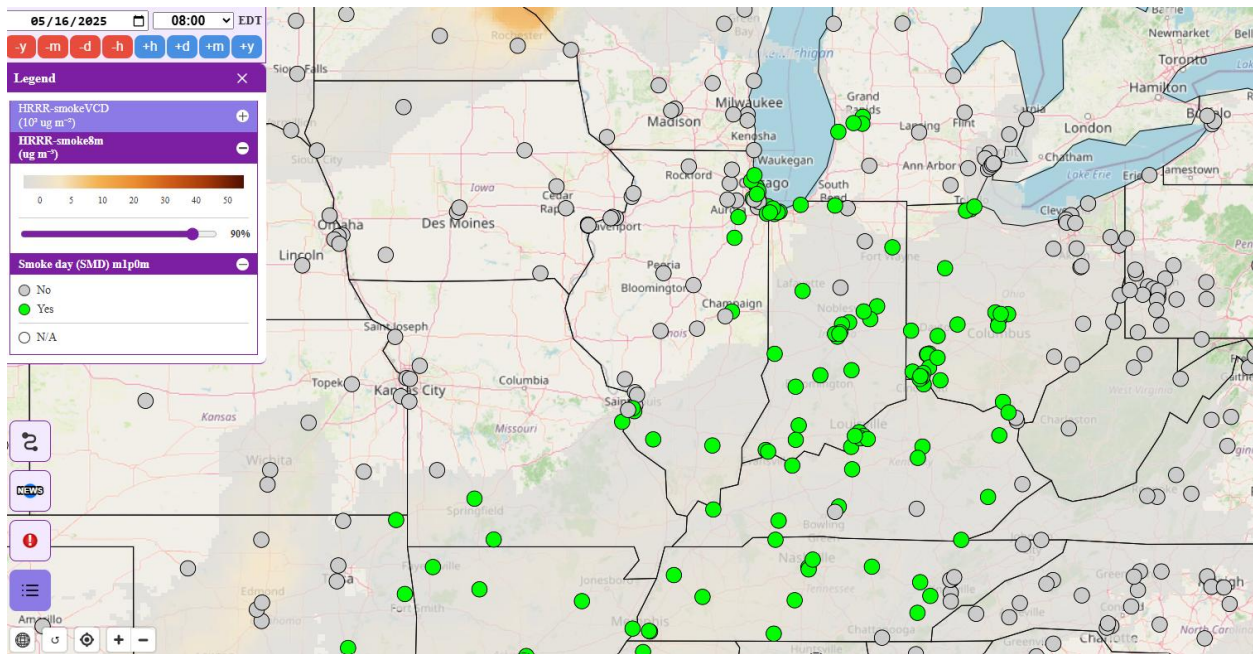
Backward Trajectories



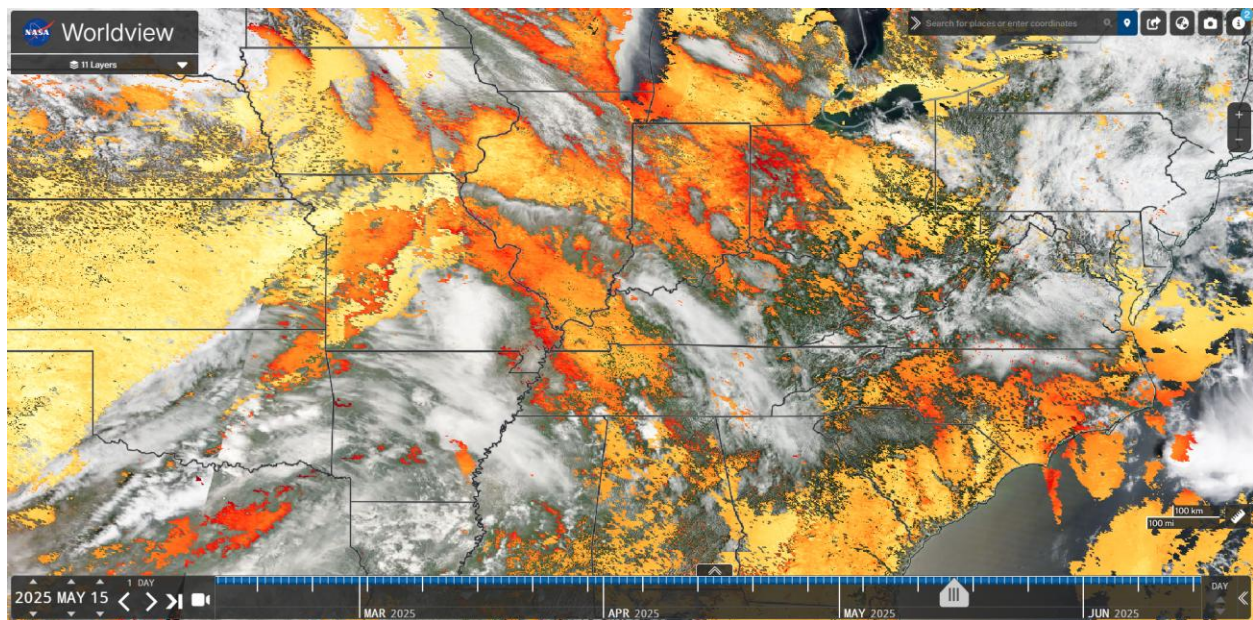
HRRR Smoke - Vertically Integrated Smoke



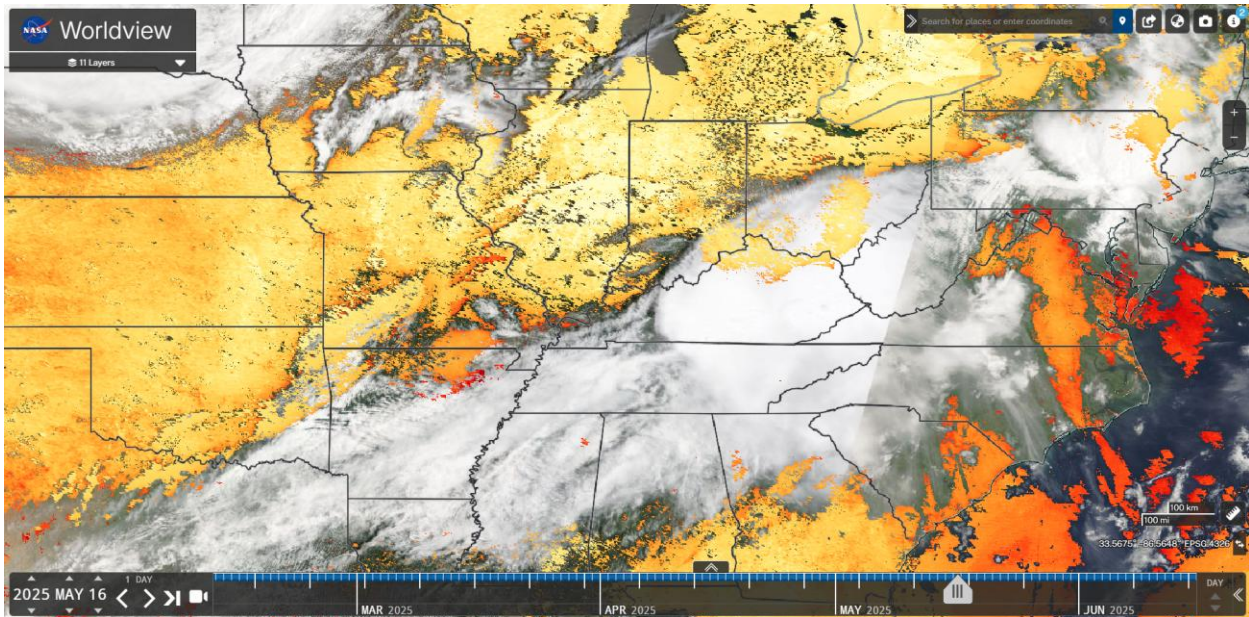
HRRR Smoke – Near Surface Smoke



Satellite Imagery with MAIAC AOD



Satellite Imagery with MAIAC AOD



DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0115Z May 16, 2025

SMOKE:

Southeastern Manitoba/Ontario/Quebec/Hudson Bay...

The large wildfires in southeastern Manitoba and central Saskatchewan continued to produce light to locally moderate-to-heavy density smoke, drifting northeastward with the weather system across Ontario, Quebec, and Hudson Bay.

Arizona...

Two large wildfires in central and east-central Arizona were observed producing light to locally moderate density smoke drifting northeastward.

AEROSOL/SMOKE:

Mexico/Central America/Pacific Ocean/Texas/Gulf of America...

An expansive area of light to moderate density smoke and aerosols - attributed to widespread seasonal fire activity, volcanic emissions, and industrial sources throughout western, central, and southern Mexico - was

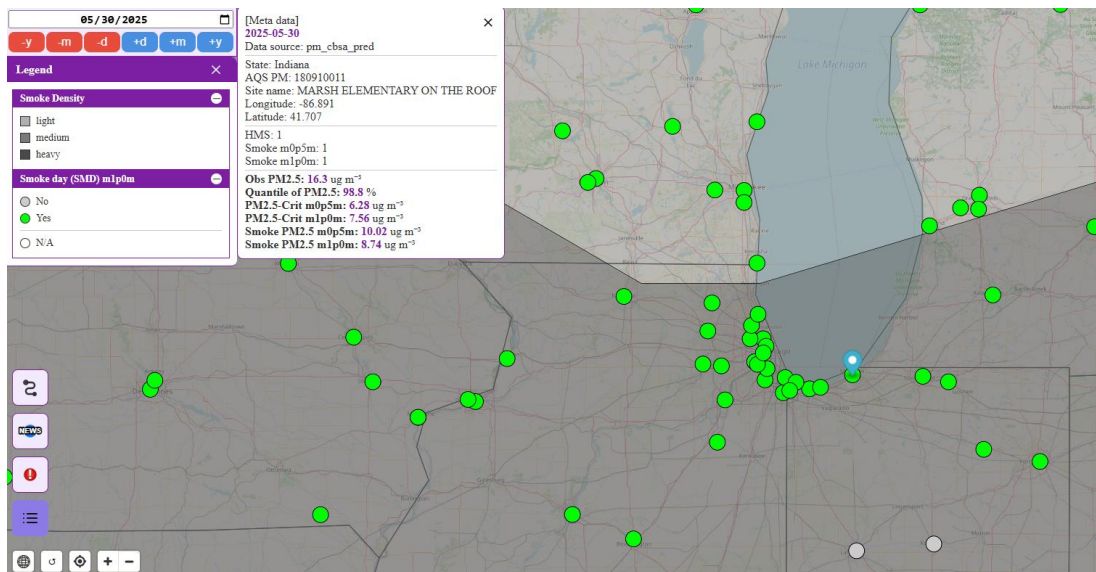
observed today extending across western, southern, and eastern Mexico, the Pacific Ocean off Mexico's western and southern coastlines, the Yucatán Peninsula, Central America, southeastern Texas, and the Gulf of America.

May 30, 2025

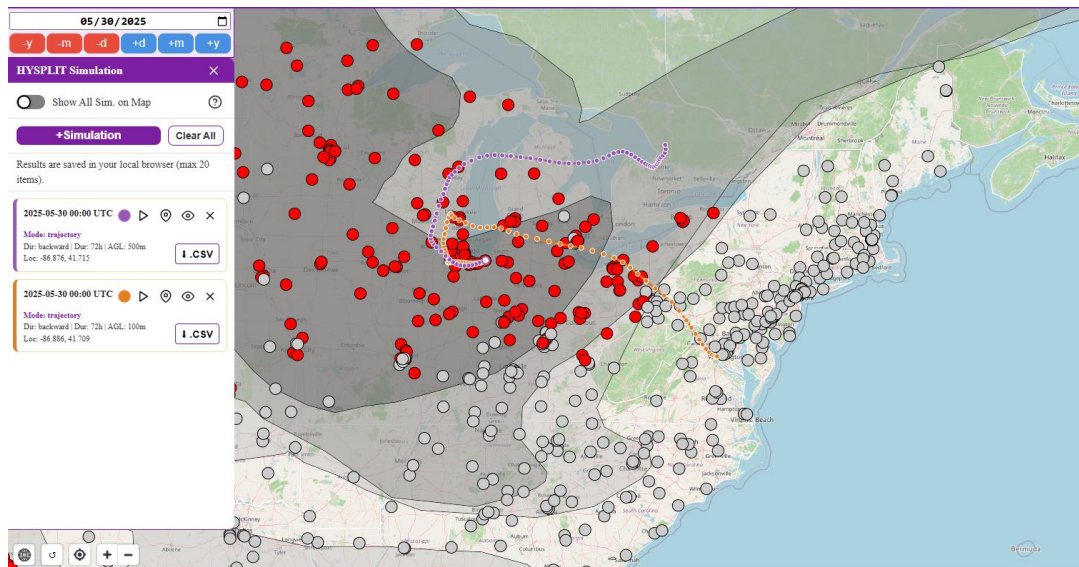
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Michigan City - Marsh Elem. Sch.	180910011	5/30/2025	16.3	15.9

Smokelyze Smoke Map with Estimated Smoke Concentration



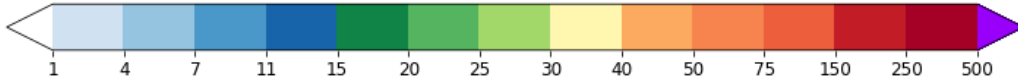
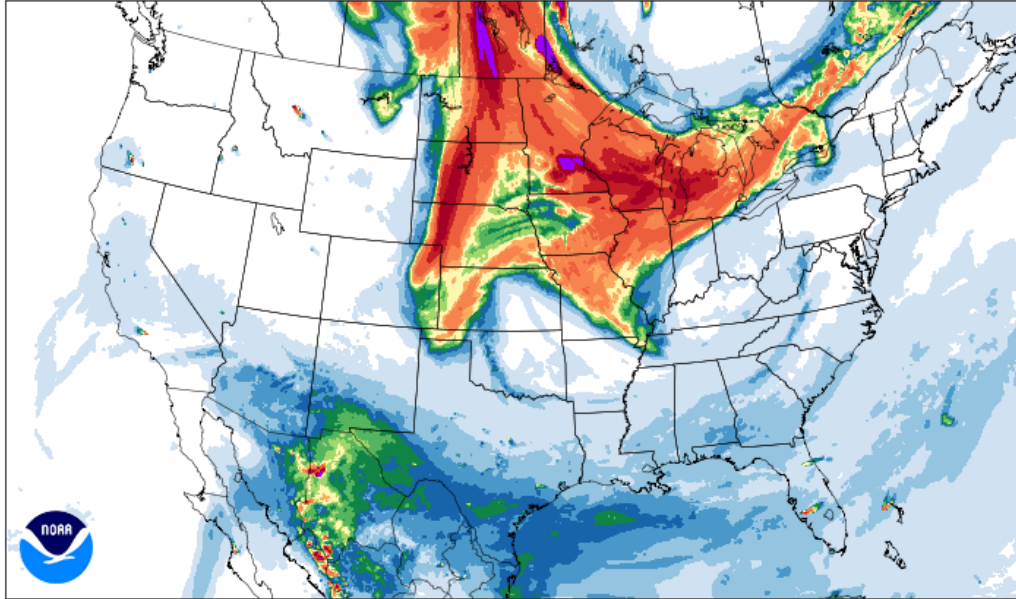
Backward Trajectories



HRRR Smoke - Vertically Integrated SmokeVertically Integrated Smoke (mg/m^2 , shaded)

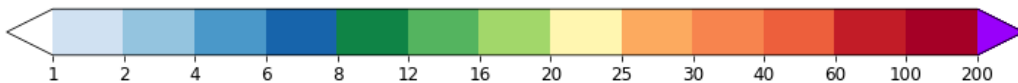
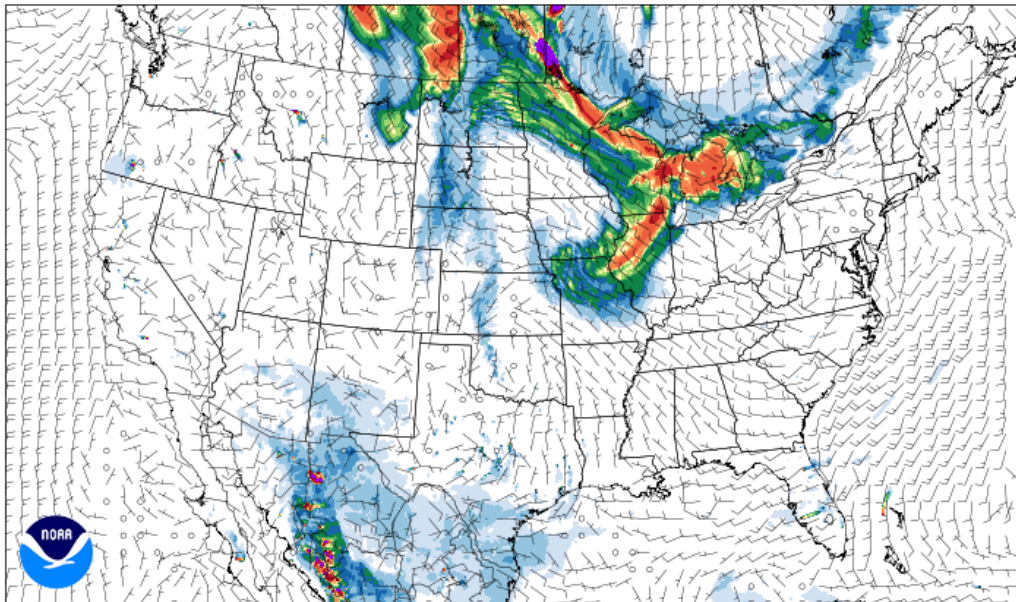
HRRR-NCEP: 20250530 06 UTC

Fcst Hr: 15, Valid Time 20250530 21 UTC

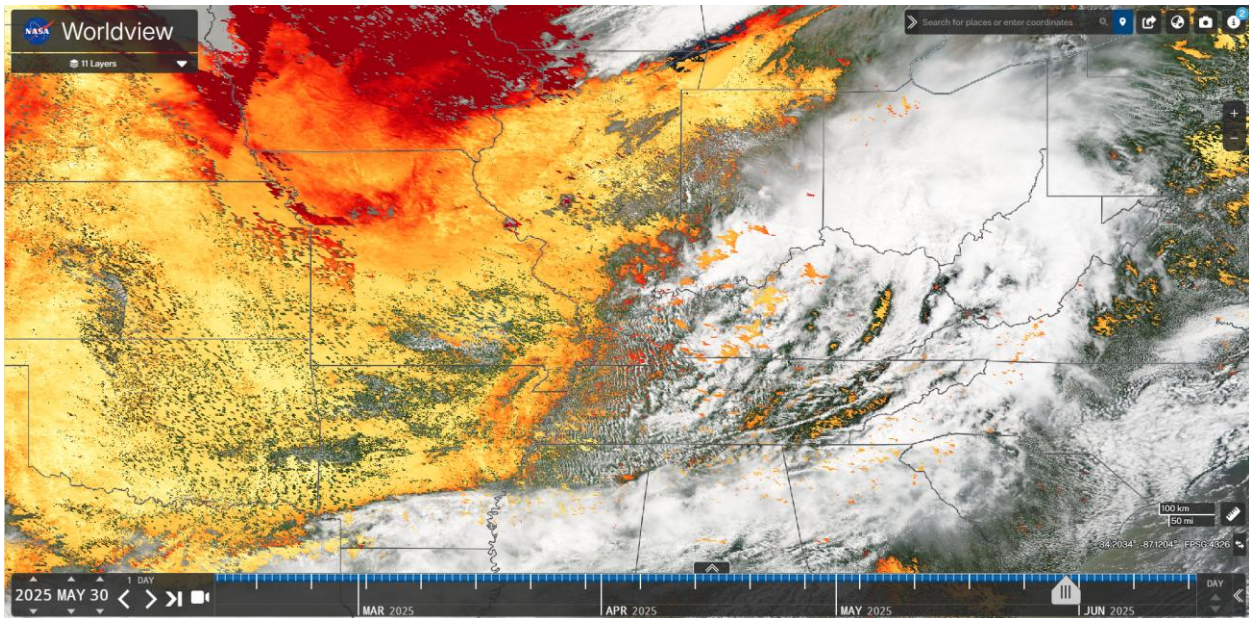
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250530 06 UTC

Fcst Hr: 17, Valid Time 20250530 23 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1400Z May 30, 2025

SMOKE:

Canada/Midwestern U.S...

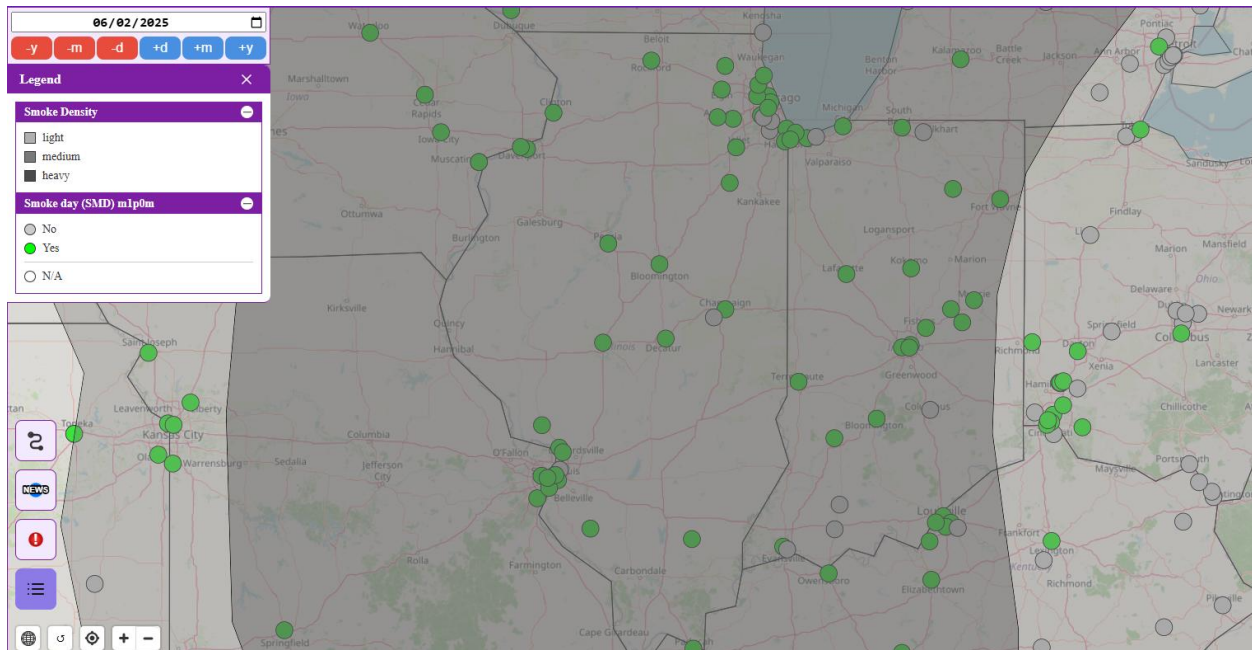
Widespread wildfire activity continues to be observed across large areas of central Canada including Northeastern British Columbia, Central-Northern Alberta, Central Saskatchewan, and Central-Southern Manitoba. Moderate-to-heavy density smoke from those fires is seen blanketing most of Central and Northern Canada, while also dipping south over the Midwestern U.S and the Northern Great Plains. Lighter density smoke associated with that same plume extends to the south over Northern Oklahoma and Kansas, and to the east across Southern Ontario, Quebec, Newfoundland, and the Northern Atlantic where it extends until reaching the Western United Kingdom.

June 2, 2025

PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

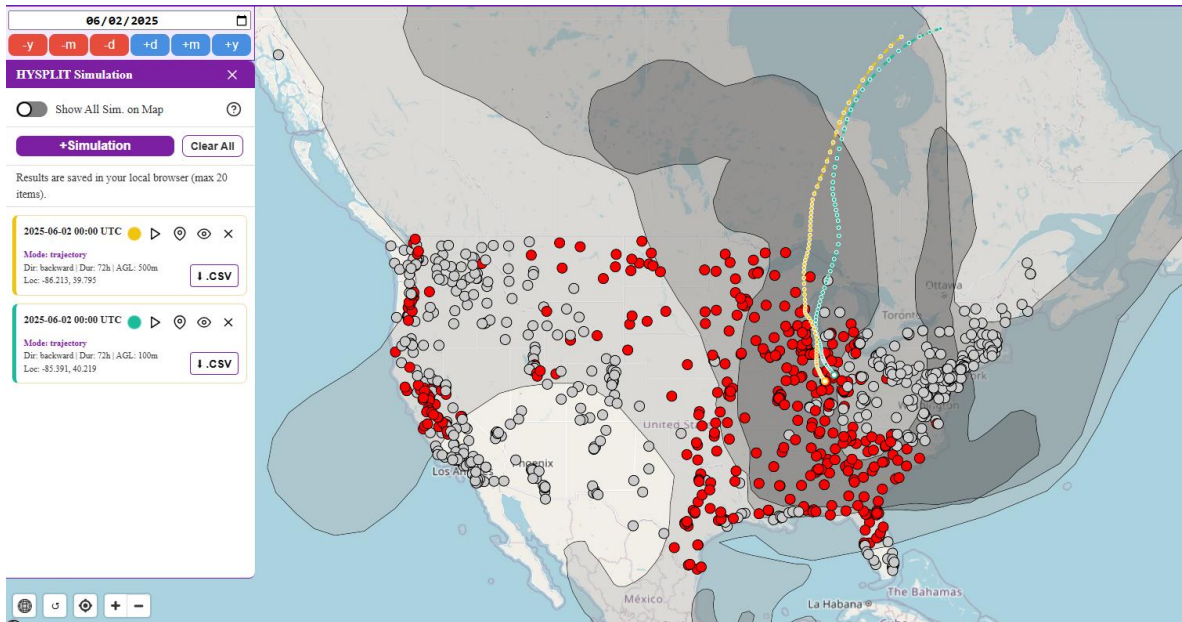
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	6/2/2025	14.7	13.2
Indianapolis - W. 18th St.	180970081	6/2/2025	22.4	24.5

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor name	AQS	Daily average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
Muncie - Central HS	180350006	14.7	6.4
Indianapolis - W. 18th St.	180970081	22.4	11.9

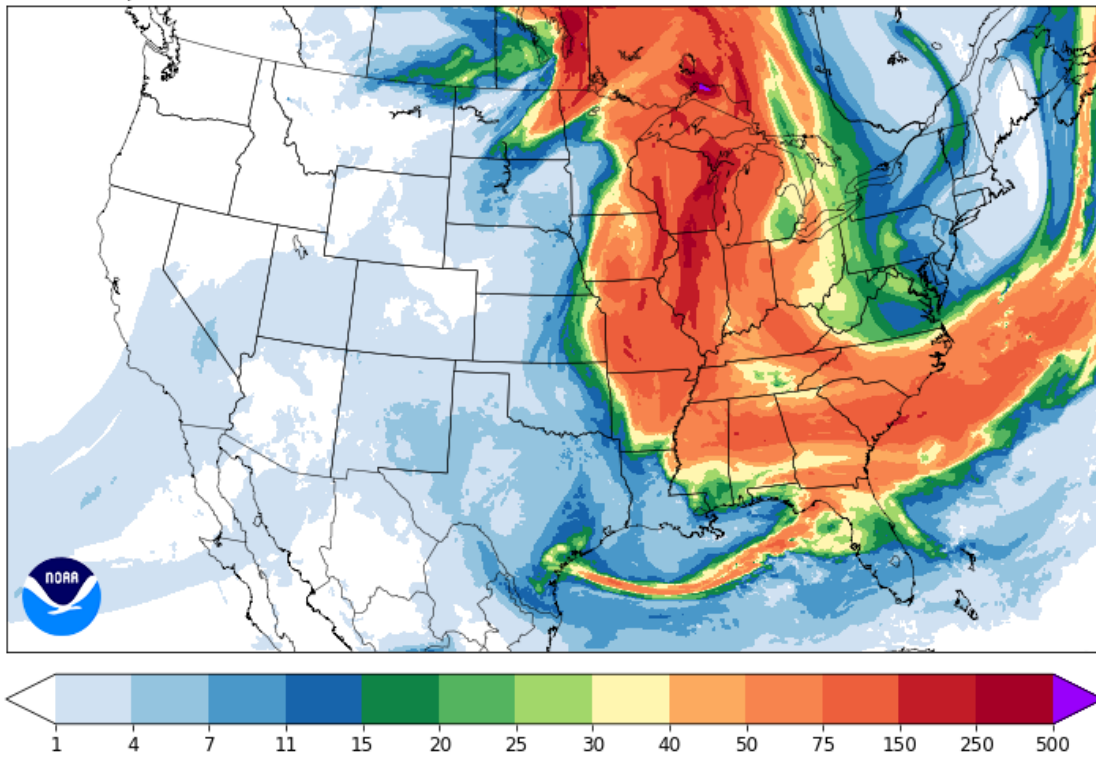
Backward Trajectories



HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

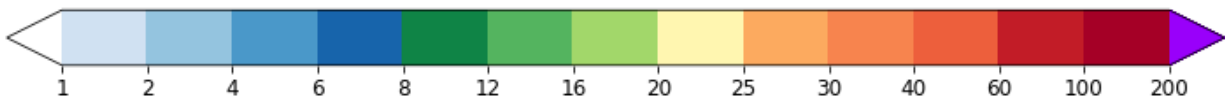
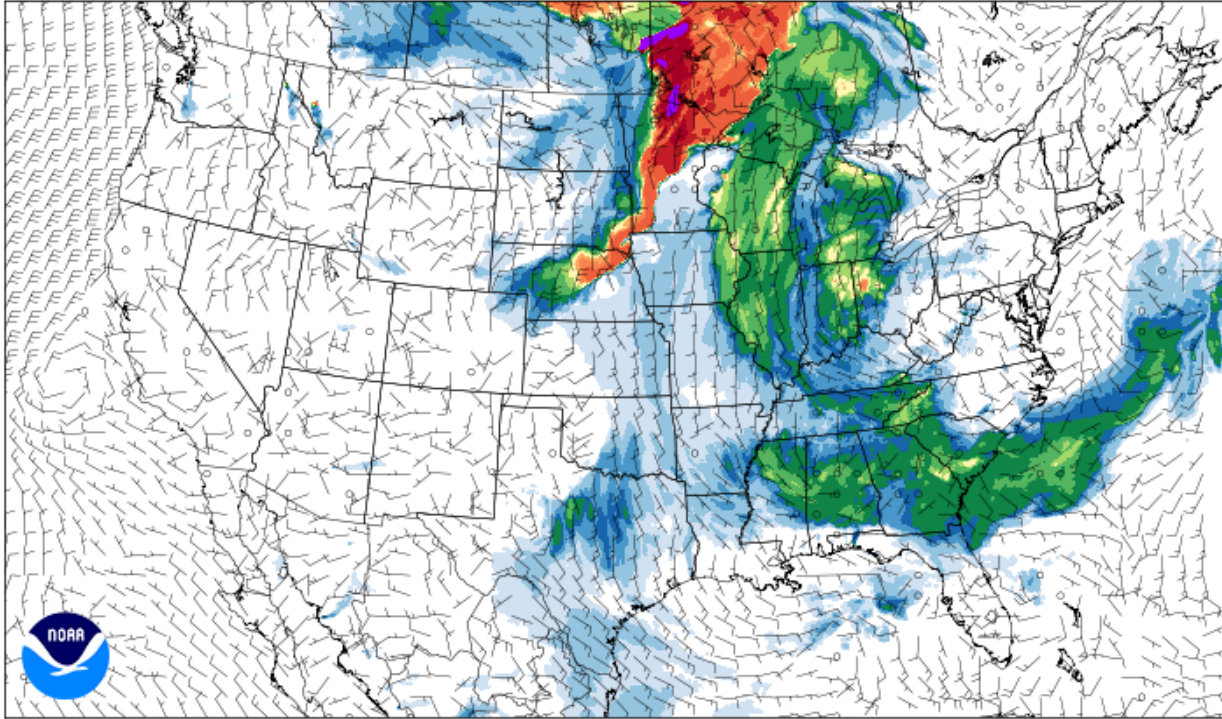
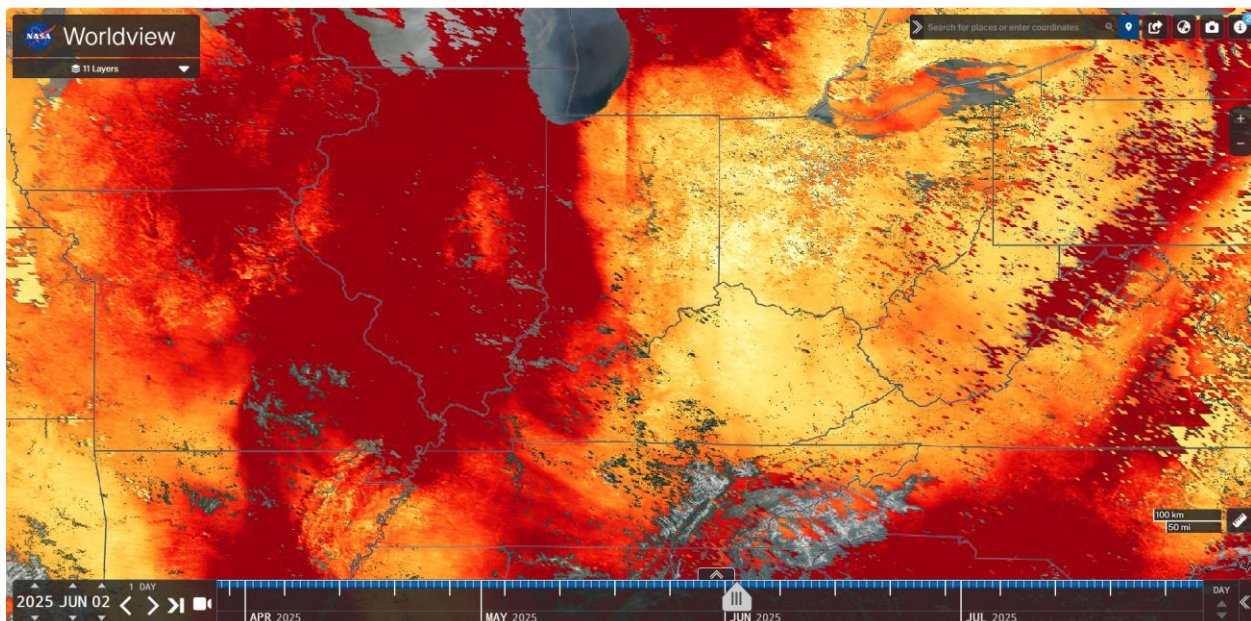
HRRR-NCEP: 20250602 00 UTC
Fcst Hr: 14, Valid Time 20250602 14 UTC



HRRR Smoke – Near Surface SmokeNear-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250602 00 UTC

Fcst Hr: 28, Valid Time 20250603 04 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0305Z June 2nd, 2025

SMOKE:

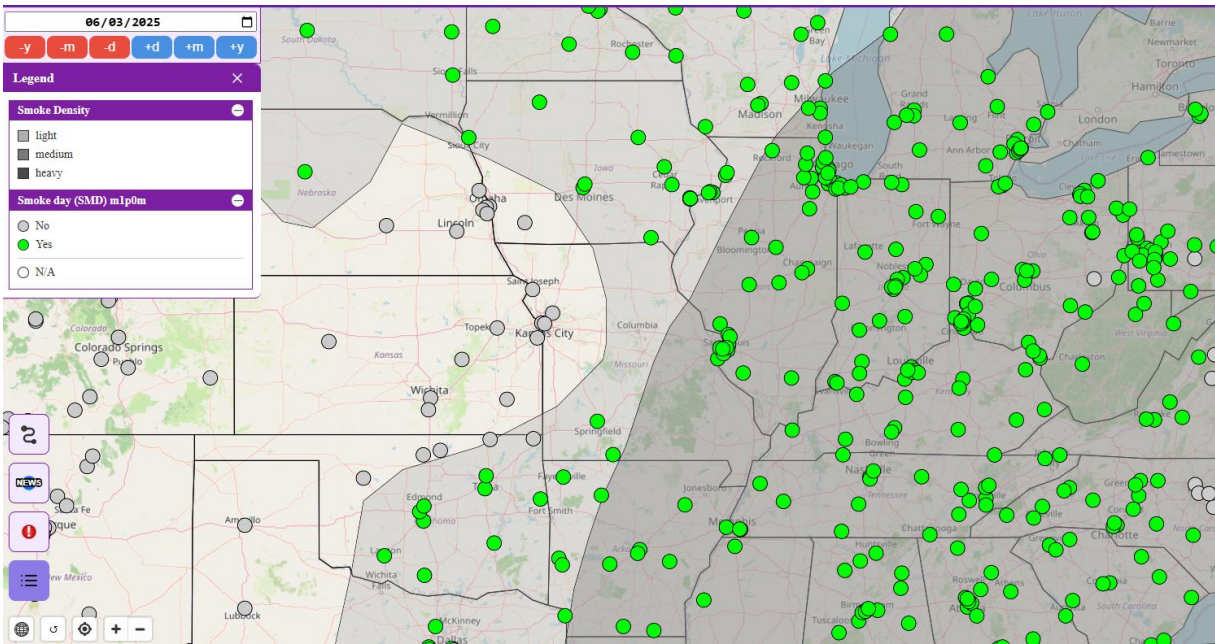
Canada/Central and Eastern United States/Pacific Northwest/Atlantic
Ocean...

Wildfire activity remained extensive across western and central
Canada, with numerous large fires observed in northeastern British
Columbia, northern Alberta, far southern Northwest Territories, central
Saskatchewan, much of Manitoba, and western Ontario. Moderate to heavy
density smoke from these sources continued to blanket central and northern
Canada, while also drifting south over the central and eastern CONUS and
into the Atlantic Ocean off the coast. Lighter density smoke blanketed
most of Canada and coast of the Pacific Northwest, and extended as far
south as the U.S. Southern Plains, Lower Mississippi Valley, Southeastern
U.S., and the Gulf of America.

June 3, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

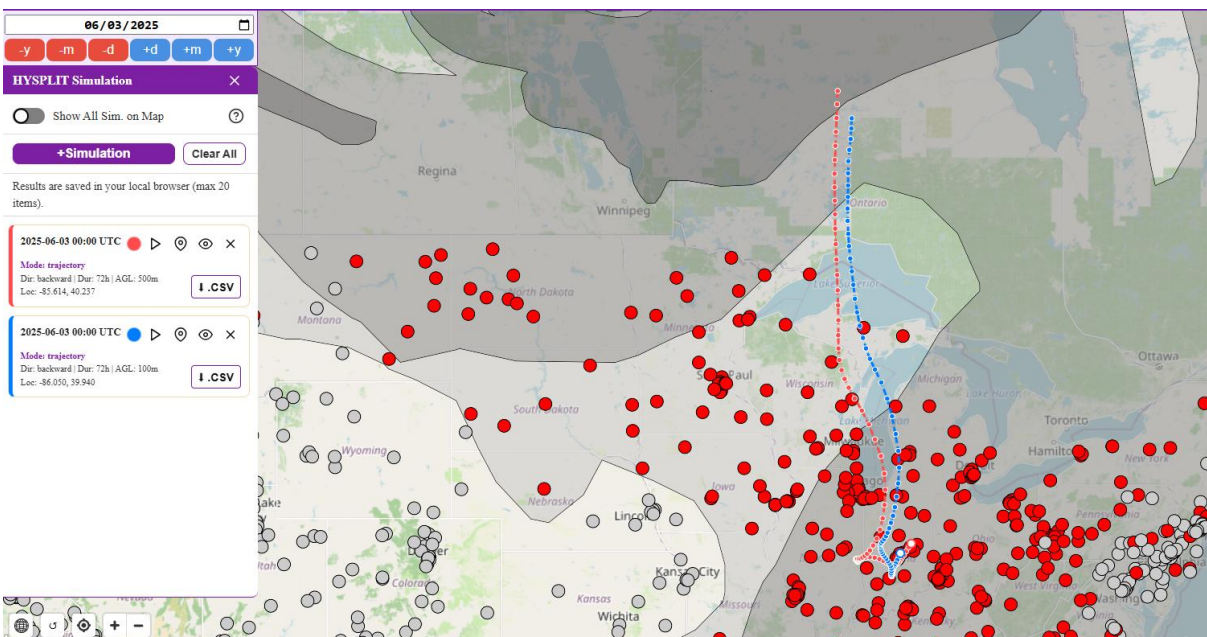
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Fort Wayne - Coliseum	180030015	6/3/2025	21.8	18
Muncie - Central HS	180350006	6/3/2025	13.5	13.2
Jasper - Post Office	180372001	6/3/2025	15.7	15.4
New Albany	180430008	6/3/2025	14.6	13.7
Plummer	180550001	6/3/2025	15.8	13.2
Fishers	180570007	6/3/2025	17.8	13.8
Carmel - Hazel Dell Parkway	180570008	6/3/2025	18.5	16.2
Kokomo - E. Vaile Ave	180670004	6/3/2025	14.4	13.9
Indianapolis - Washington Park	180970078	6/3/2025	18.8	18.1
Bloomington - Binford	181050003	6/3/2025	14.6	12.8
Dale-N Wallace St	181470011	6/3/2025	15.0	13
Lafayette - Greenbush St	181570008	6/3/2025	16.3	15.1
Evansville - Buena Vista	181630021	6/3/2025	20.2	16.4
Terre Haute - Lafayette Ave	181670018	6/3/2025	19.1	18.8
Larwill	181830003	6/3/2025	15.4	15

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Fort Wayne - Coliseum	180030015	6/3/2025	21.8	13.2
Muncie - Central HS	180350006	6/3/2025	13.5	6.3
Jasper - Post Office	180372001	6/3/2025	15.7	8.4
New Albany	180430008	6/3/2025	14.6	NA
Plummer	180550001	6/3/2025	15.8	9.2
Fishers	180570007	6/3/2025	17.8	9.5
Carmel - Hazel Dell Parkway	180570008	6/3/2025	18.5	9.2
Kokomo - E. Vaile Ave	180670004	6/3/2025	14.4	8.8
Indianapolis - Washington Park	180970078	6/3/2025	18.8	8.6
Bloomington - Binford	181050003	6/3/2025	14.6	7.6
Dale-N Wallace St	181470011	6/3/2025	15.0	5.2
Lafayette - Greenbush St	181570008	6/3/2025	16.3	8.6
Evansville - Buena Vista	181630021	6/3/2025	20.2	11.1
Terre Haute - Lafayette Ave	181670018	6/3/2025	19.1	8.6
Larwill	181830003	6/3/2025	15.4	9.2

Backward Trajectories

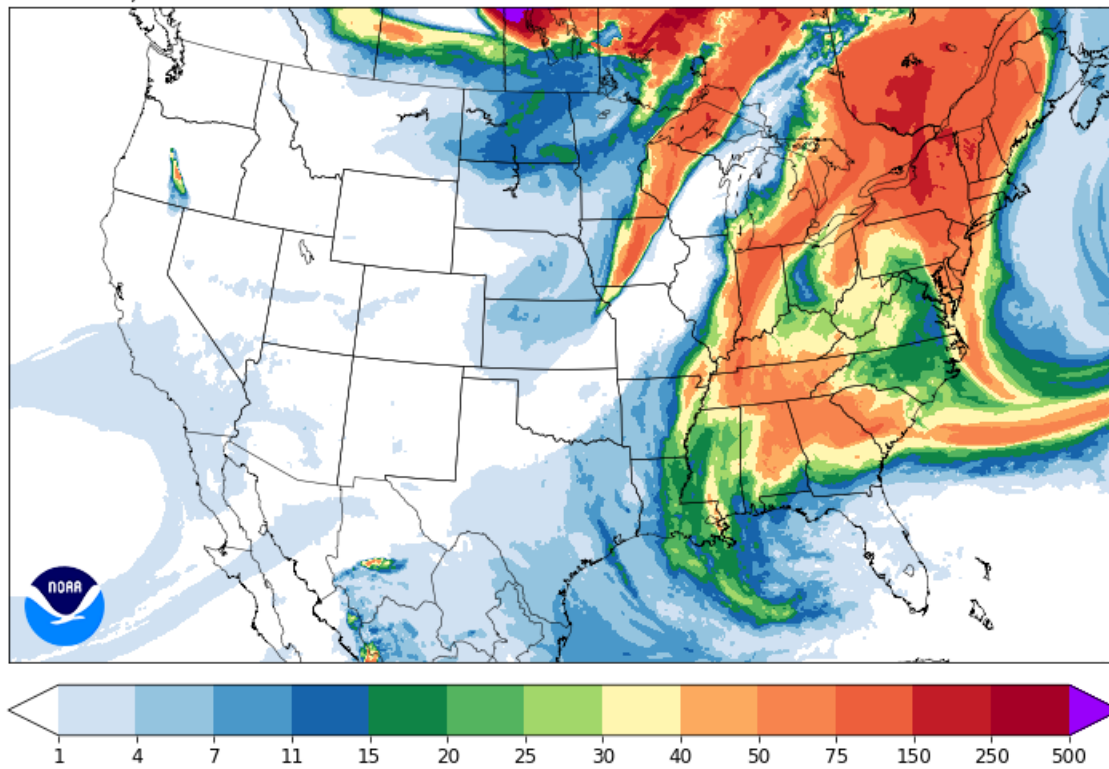


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250603 00 UTC

Fcst Hr: 28, Valid Time 20250604 04 UTC

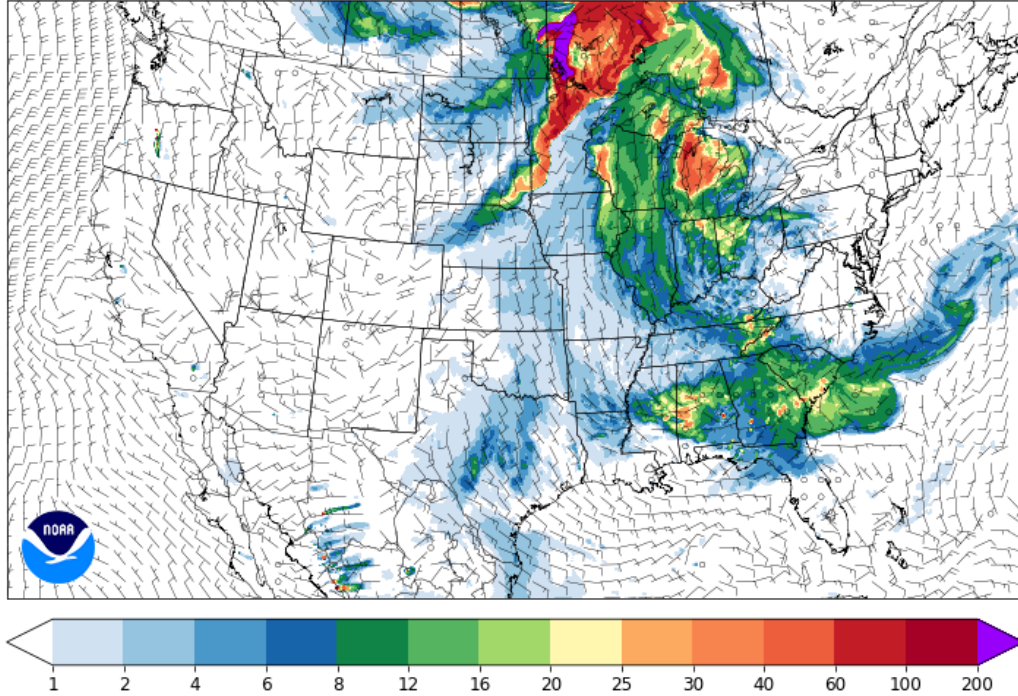


HRRR Smoke – Near Surface Smoke

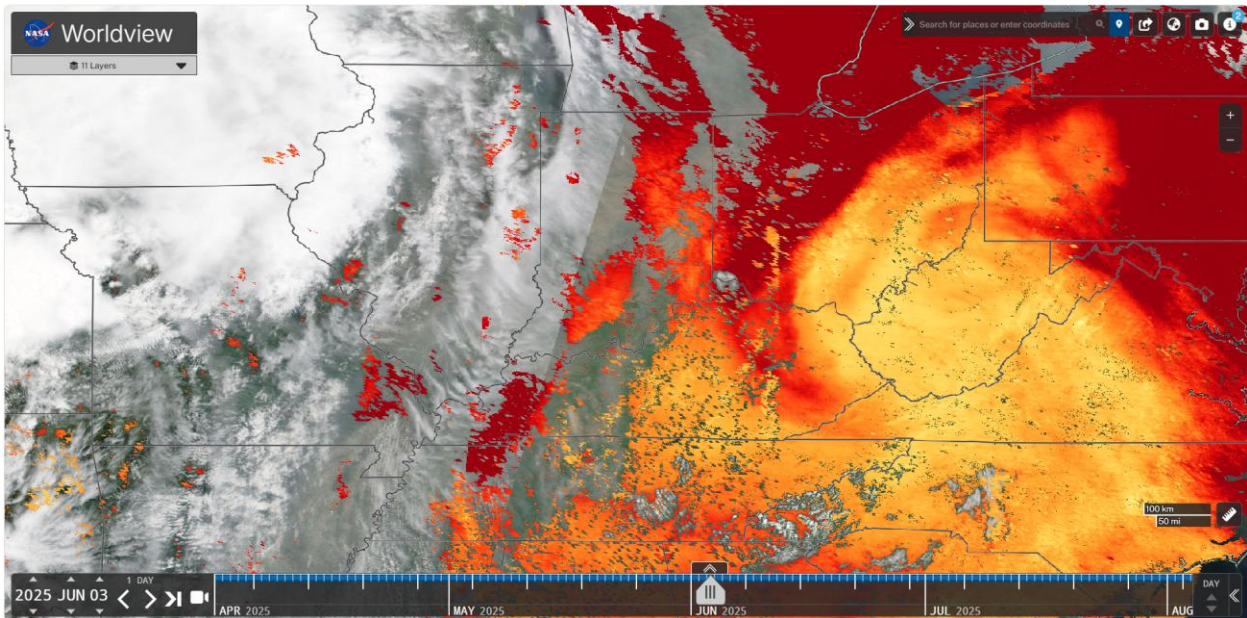
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250603 00 UTC

Fcst Hr: 2, Valid Time 20250603 02 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0125Z June 3rd, 2025

SMOKE:

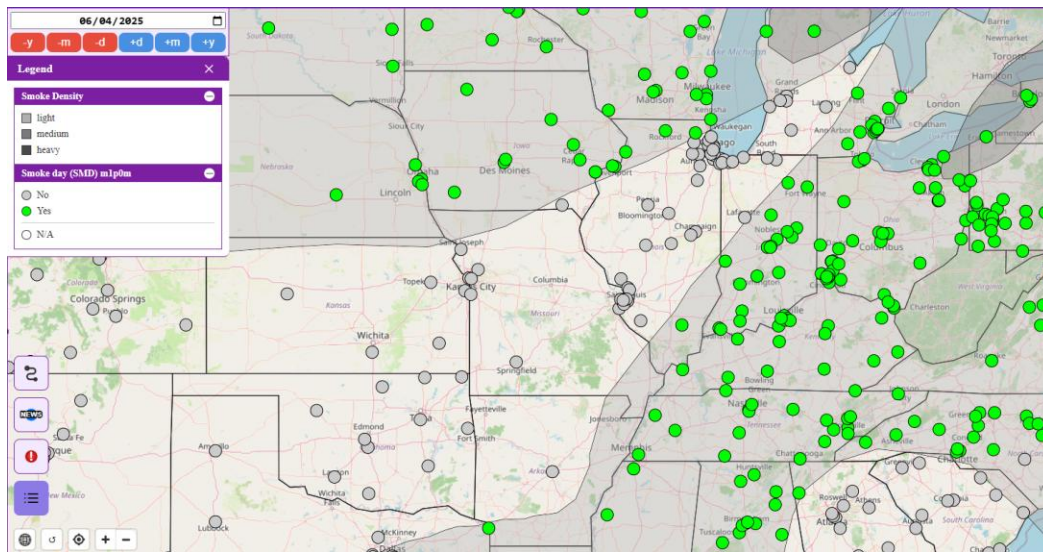
Canada/Central and Eastern United States/Pacific Northwest/Pacific
Ocean/Atlantic Ocean/Gulf of America...

Wildfire activity remained extensive across western and central
Canada, with numerous large fires observed in northeastern British
Columbia, northern Alberta, far southern Northwest Territories, central
Saskatchewan, much of Manitoba, and western Ontario. **Moderate to heavy
density smoke from these sources continued to blanket central and
northern Canada, while also drifting south over the central and eastern
CONUS and into the Atlantic Ocean off the coast.** Lighter density smoke
blanketed most of Canada and coast of the Pacific Northwest, with some
smoke extending off the coast of California into the Pacific Ocean,
and extended as far south as the U.S. Southern Plains, Lower Mississippi
Valley, Southeastern U.S., and the Gulf of America.

June 4, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

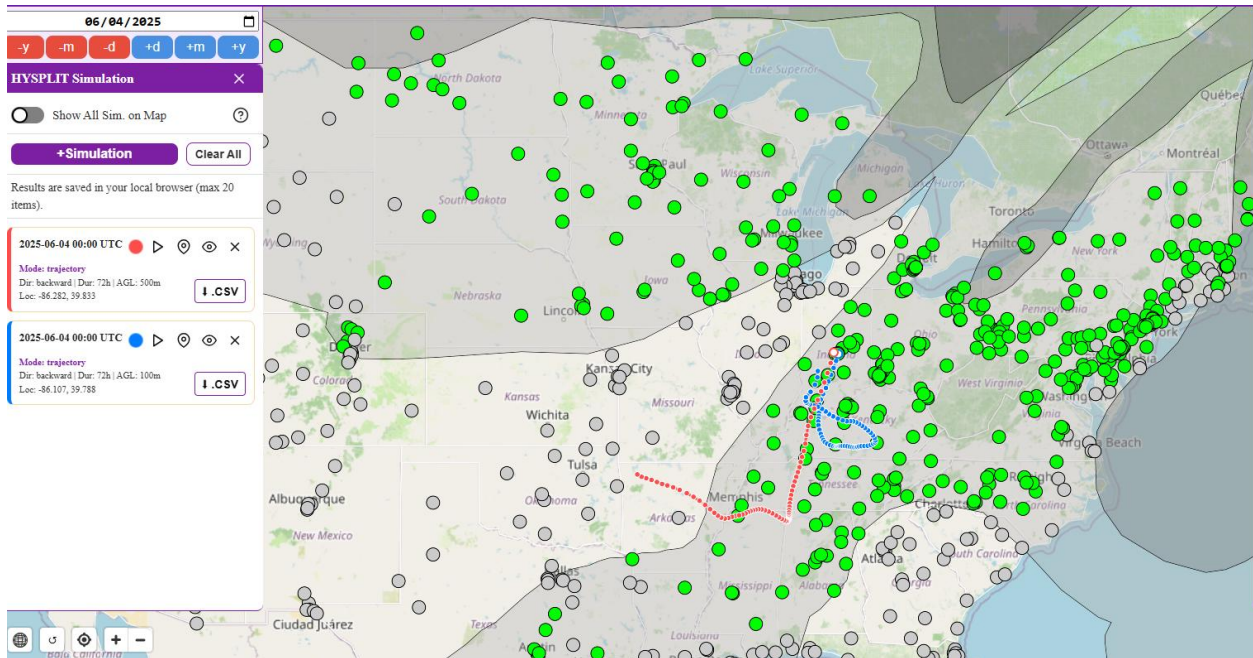
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Jeffersonville - Bates-Bowyer Ave	180190010	6/4/2025	24.5	16.6
Muncie - Central HS	180350006	6/4/2025	21.3	13.2
Jasper - Post Office	180372001	6/4/2025	24.7	15.4
New Albany	180430008	6/4/2025	16.5	13.7
Plummer	180550001	6/4/2025	20.3	13.2
Fishers	180570007	6/4/2025	20.8	13.8
Mechanicsburg	180650003	6/4/2025	23.0	14.8
East Chicago - Marina	180890034	6/4/2025	40.5	18
Hammond-167th St	180890036	6/4/2025	36.1	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/4/2025	37.7	15.9
Anderson - Eastside Elem	180950011	6/4/2025	20.2	15.4
Indianapolis - Washington Park	180970078	6/4/2025	21.8	18.1
Indianapolis - W. 18th St.	180970081	6/4/2025	22.7	24.5
Indianapolis- I-70 E	180970087	6/4/2025	21.0	20.5
Bloomington - Binford	181050003	6/4/2025	20.2	12.8
South Bend - Shields Dr.	181410015	6/4/2025	17.2	16.9
Dale-N Wallace St	181470011	6/4/2025	24.3	13
Evansville - Buena Vista	181630021	6/4/2025	23.0	16.4
Evansville - Oak Hill	181630024	6/4/2025	22.0	21.1

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor Name	AQS	Date	Daily Average (µg/m³)	GAM Estimated Smoke (µg/m³)
Jeffersonville - Bates-Bowyer Ave	180190010	6/4/2025	24.5	15.1
Muncie - Central HS	180350006	6/4/2025	21.3	13
Jasper - Post Office	180372001	6/4/2025	24.7	16.1
New Albany	180430008	6/4/2025	16.5	NA
Plummer	180550001	6/4/2025	20.3	13
Fishers	180570007	6/4/2025	20.8	12.5
Mechanicsburg	180650003	6/4/2025	23.0	14.8
East Chicago - Marina	180890034	6/4/2025	40.5	NA
Hammond-167th St	180890036	6/4/2025	36.1	NA
Michigan City - Marsh Elem. Sch.	180910011	6/4/2025	37.7	NA
Anderson - Eastside Elem	180950011	6/4/2025	20.2	13.2
Indianapolis - Washington Park	180970078	6/4/2025	21.8	12.4
Indianapolis - W. 18th St.	180970081	6/4/2025	22.7	12.2
Indianapolis- I-70 E	180970087	6/4/2025	21.0	11
Bloomington - Binford	181050003	6/4/2025	20.2	12.4
South Bend - Shields Dr.	181410015	6/4/2025	17.2	NA
Dale-N Wallace St	181470011	6/4/2025	24.3	12.9
Evansville - Buena Vista	181630021	6/4/2025	23.0	13.9
Evansville - Oak Hill	181630024	6/4/2025	22.0	13.2

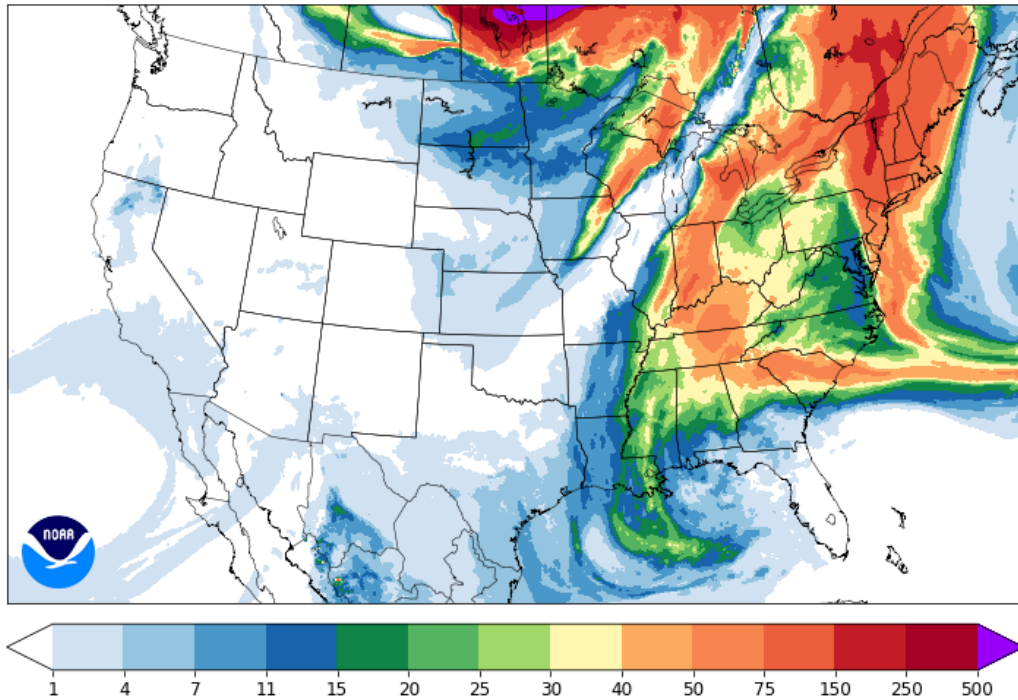
Backward Trajectories



HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250604 00 UTC
Fcst Hr: 9, Valid Time 20250604 09 UTC

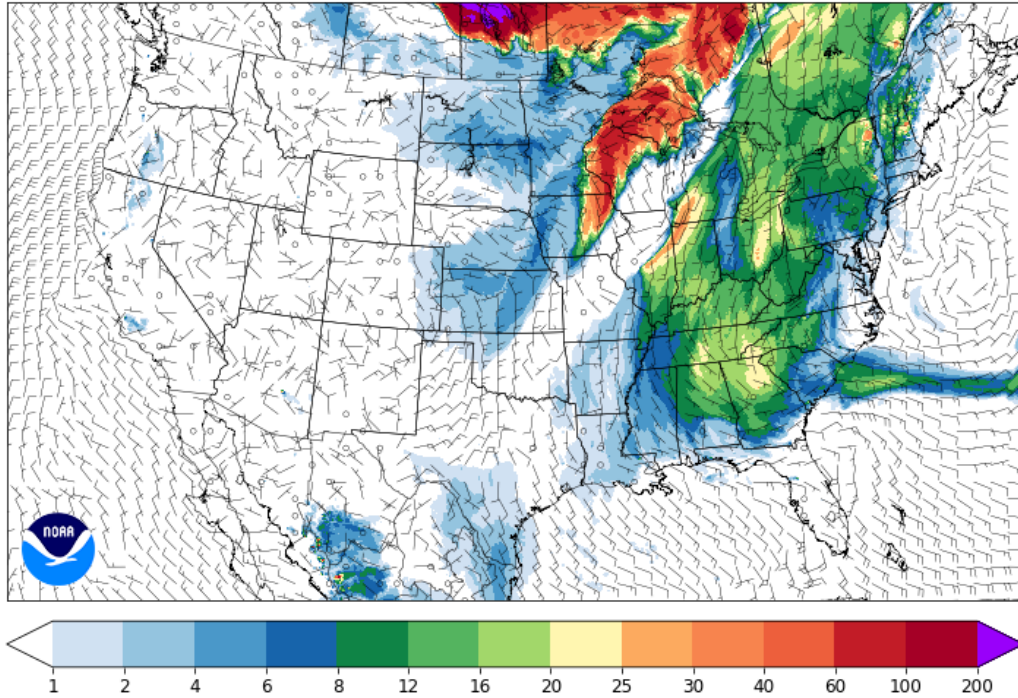


HRRR Smoke – Near Surface Smoke

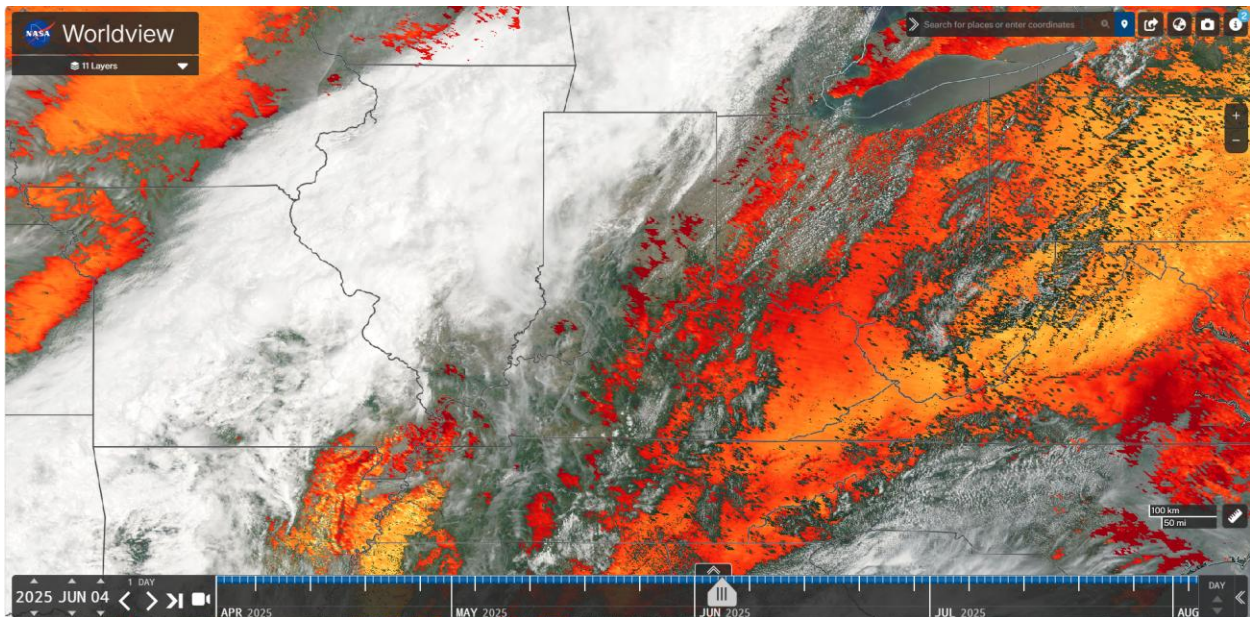
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250604 00 UTC

Fcst Hr: 8, Valid Time 20250604 08 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1440Z June 4th, 2025

SMOKE:

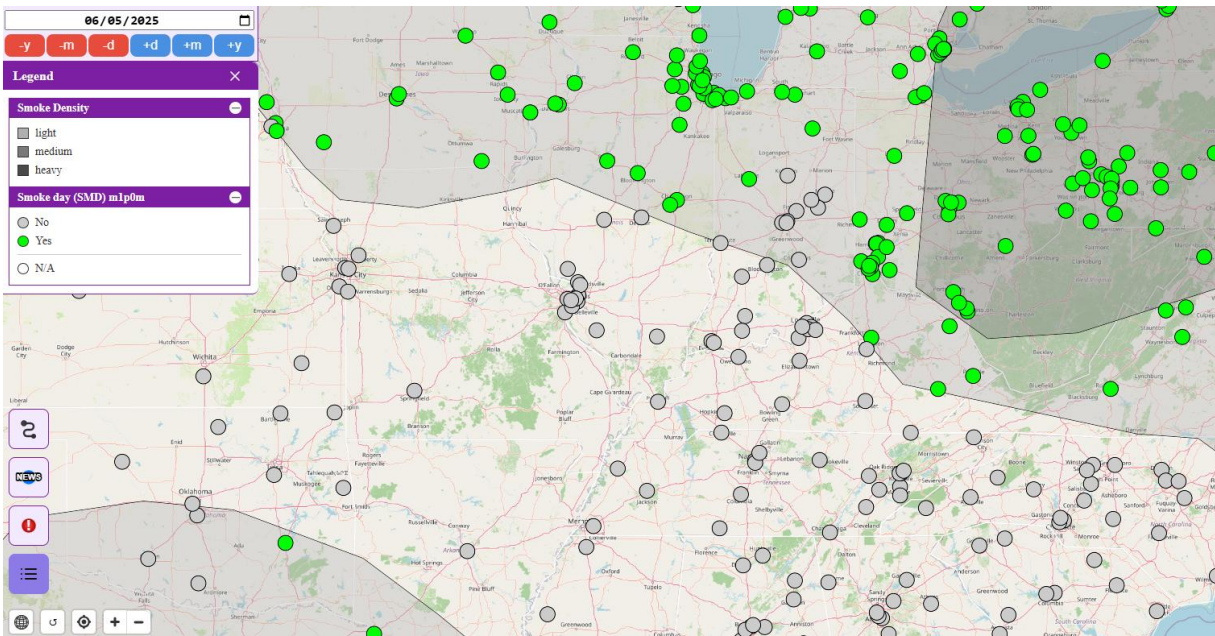
Canada/Central and Eastern United States/Atlantic Ocean/Gulf of
America/Western Europe...

Wildfire activity remained extensive across western and central
Canada, with numerous large fires observed in northeastern British
Columbia, northern Alberta, far southern Northwest Territories, central
Saskatchewan, much of Manitoba, and western Ontario. Light to moderate
density smoke from these sources continued to blanket across most of
Canada, while also drifting south over the central and eastern CONUS
and into the Atlantic Ocean. Lighter density smoke blanketed most of
Canada, with smoke extending north through the Northwestern Territories
and Nunavut, far south to the Gulf of America through the southeastern
CONUS, and far west across the northern Atlantic before settling over
western Europe. The moderate density smoke was concentrated mainly over
central and eastern Canada, with the eastern portion extending north
across the Hudson Bay.

June 5, 2025

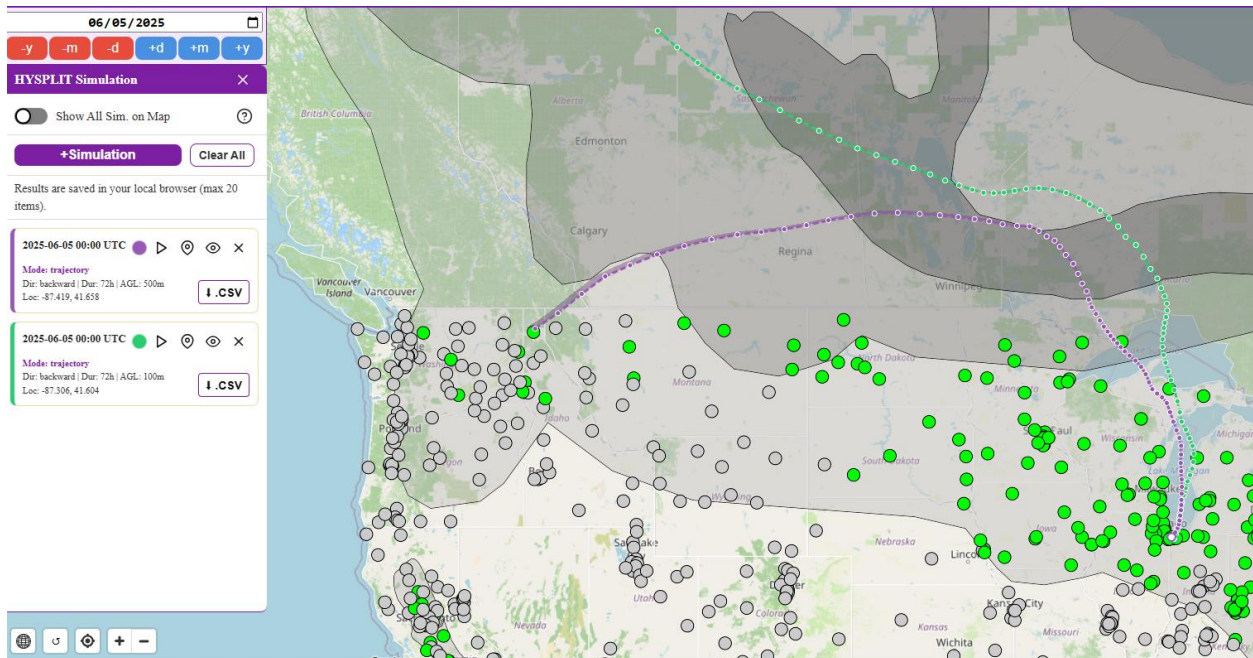
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Elkhart - Prairie St	180390008	6/5/2025	20.8	16.3
East Chicago - Marina	180890034	6/5/2025	53.2	18
Hammond-167th St	180890036	6/5/2025	57.8	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/5/2025	51.9	15.9
Ogden Dunes	181270024	6/5/2025	42.7	15.3
South Bend - Shields Dr.	181410015	6/5/2025	29.6	16.9

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor name	AQS	Daily average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Elkhart - Prairie St	180390008	20.8	11.3
East Chicago - Marina	180890034	53.2	45.6
Hammond-167th St	180890036	57.8	50.1
Michigan City - Marsh Elem. Sch.	180910011	51.9	43.2
Ogden Dunes	181270024	42.7	34.1
South Bend - Shields Dr.	181410015	29.6	20.9

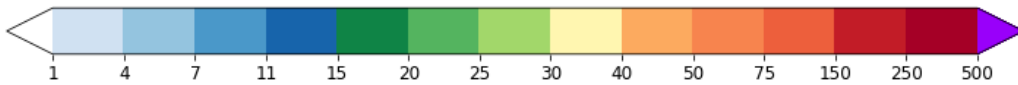
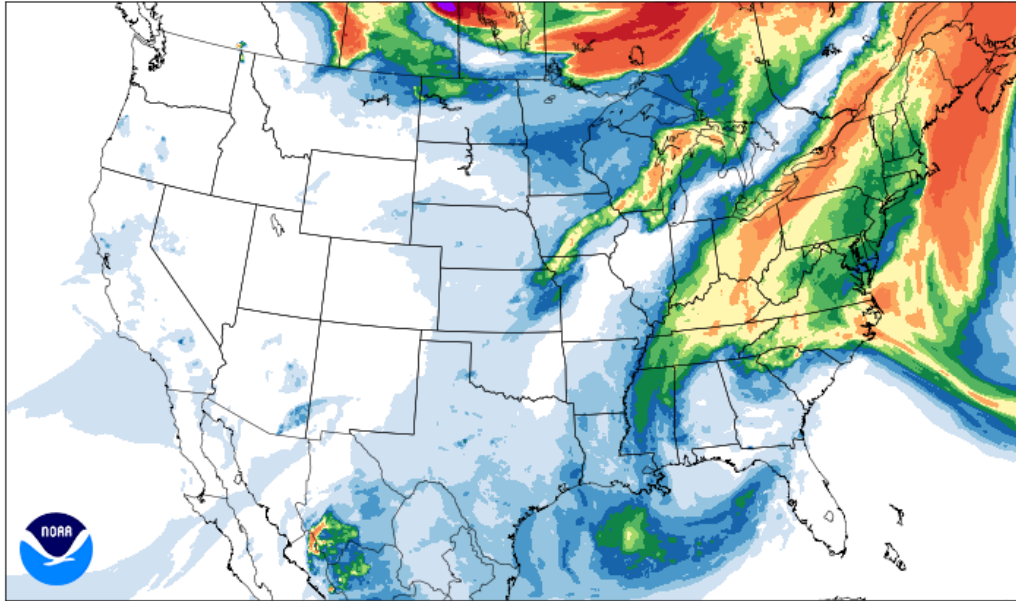
Backward Trajectories



HRRR Smoke - Vertically Integrated SmokeVertically Integrated Smoke (mg/m^2 , shaded)

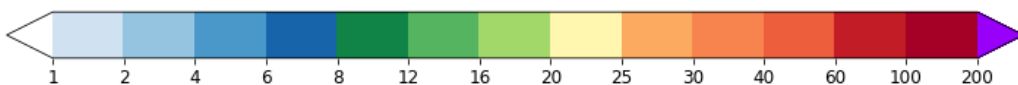
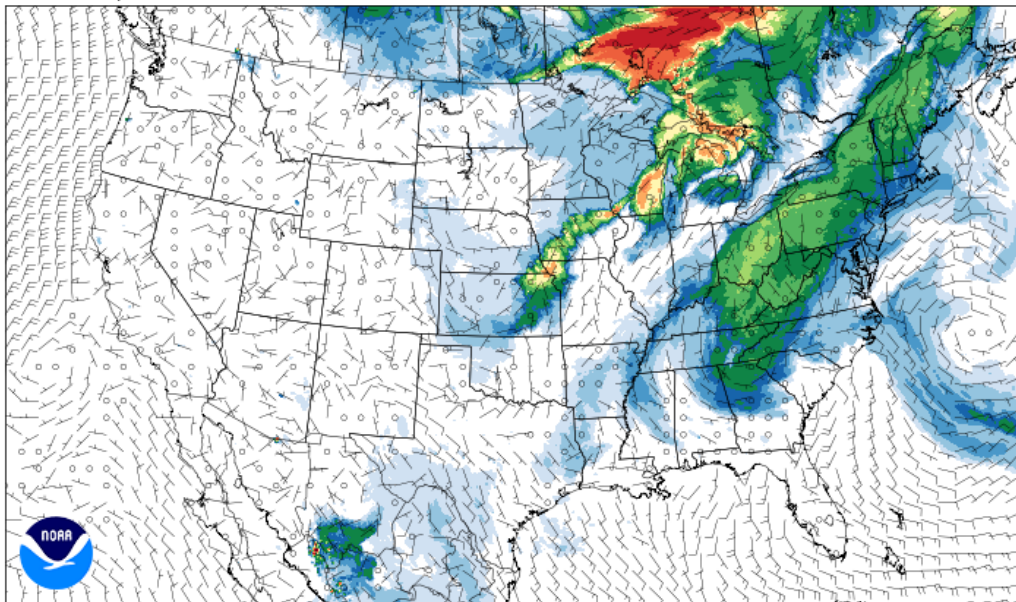
HRRR-NCEP: 20250605 00 UTC

Fcst Hr: 3, Valid Time 20250605 03 UTC

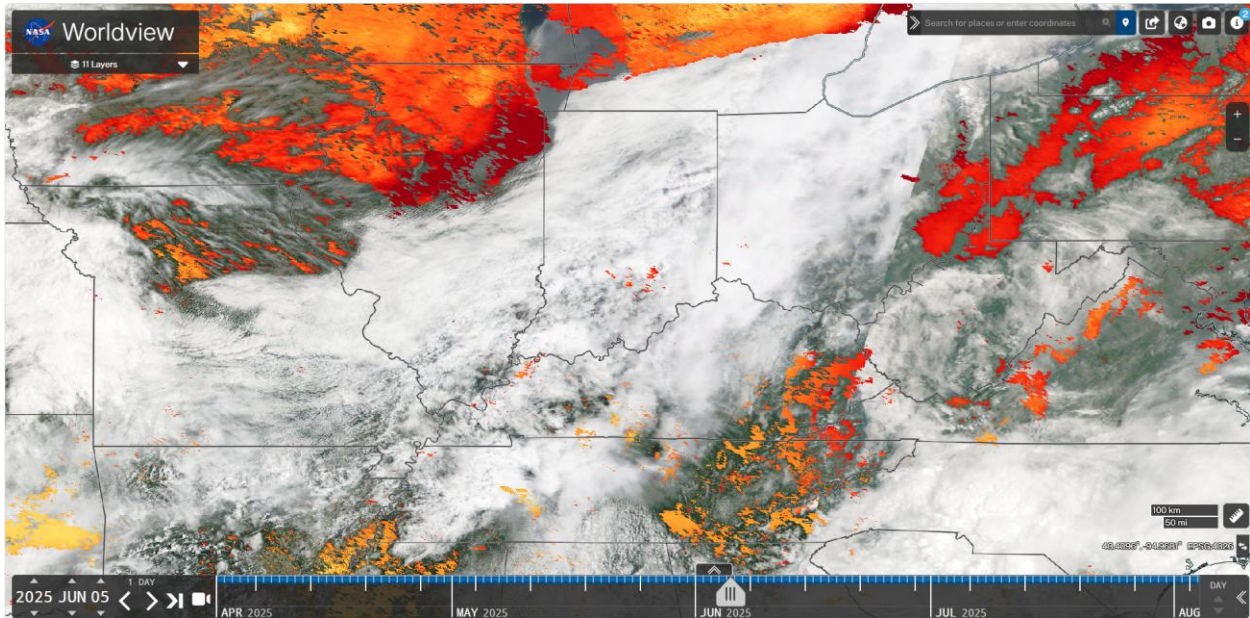
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250605 00 UTC

Fcst Hr: 11, Valid Time 20250605 11 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1500Z June 5th, 2025

SMOKE:

Canada/Central and Eastern United States/Atlantic Ocean/Gulf of America/Western Europe...

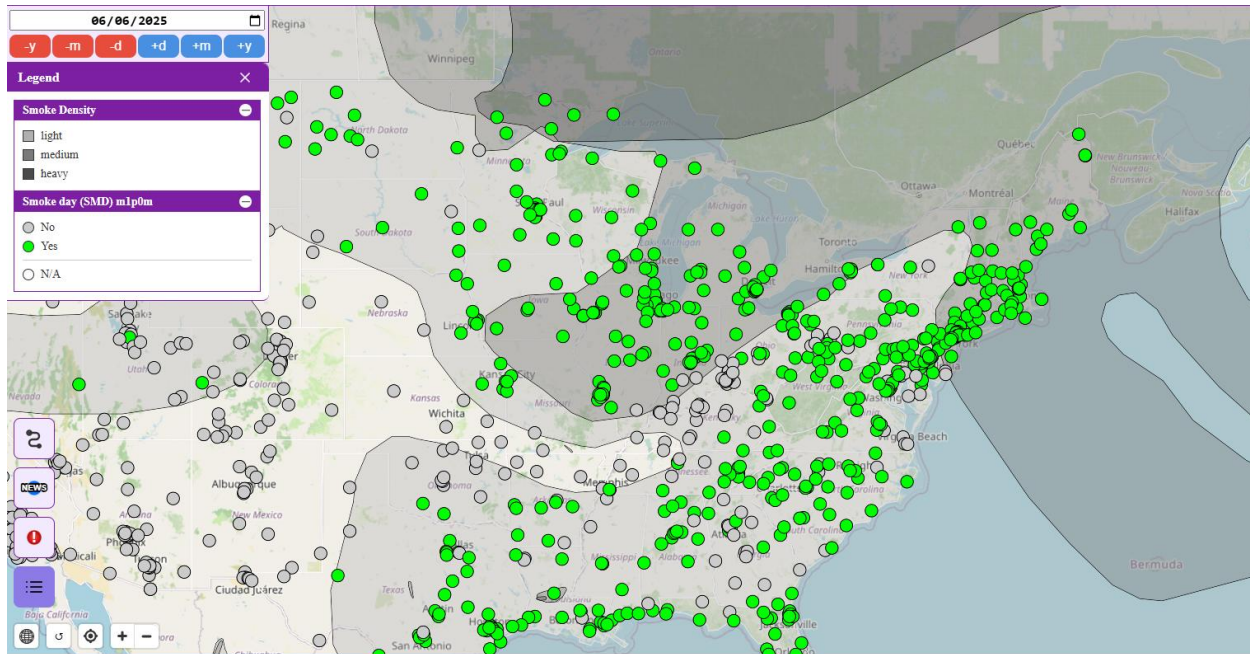
Wildfire activity remained extensive across western and central Canada, with numerous large fires observed in northeastern British Columbia, northern Alberta, far southern Northwest Territories, central Saskatchewan, much of Manitoba, and western Ontario. Moderate density smoke from these sources blanketed across most of Canada, while also drifting south over the central and eastern CONUS and into the Atlantic Ocean. Lighter density smoke blanketed most of Canada, with smoke extending north through the Northwestern Territories and Nunavut, south into the Northern United States, and far west across the northern Atlantic before settling over western Europe. Due to scattered cloud

cover, heavy density smoke was mainly observable over in northeastern British Columbia as well as central Canada, where the smoke extended from central Saskatchewan through central-southern Manitoba, central Ontario and western Quebec.

June 6, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

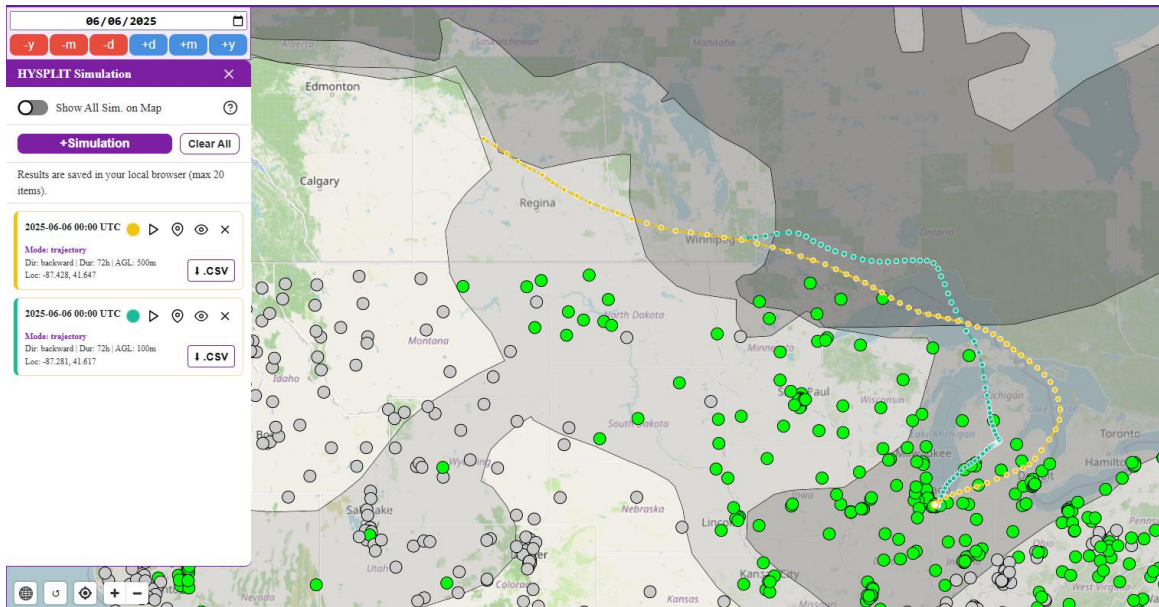
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Elkhart - Prairie St	180390008	6/6/2025	24.3	16.3
Fishers	180570007	6/6/2025	16.3	13.8
Carmel - Hazel Dell Parkway	180570008	6/6/2025	16.8	16.2
Kokomo - E. Vaile Ave	180670004	6/6/2025	15.6	13.9
East Chicago - Franklin/Washington Sch	180890006	6/6/2025	30.0	16.1
Gary - Madison St	180890031	6/6/2025	29.2	16
East Chicago - Marina	180890034	6/6/2025	28.6	18
Hammond-167th St	180890036	6/6/2025	40.0	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/6/2025	24.2	15.9
Indianapolis - Washington Park	180970078	6/6/2025	18.3	18.1
Ogden Dunes	181270024	6/6/2025	25.1	15.3
South Bend - Shields Dr.	181410015	6/6/2025	25.1	16.9
Lafayette - Greenbush St	181570008	6/6/2025	20.4	15.1
Terre Haute - Lafayette Ave	181670018	6/6/2025	19.5	18.8
Larwill	181830003	6/6/2025	25.4	15

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor Name	AQS	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Elkhart - Prairie St	180390008	24.3	14.8
Fishers	180570007	16.3	8.0
Carmel - Hazel Dell Parkway	180570008	16.8	7.5
Kokomo - E. Vaile Ave	180670004	15.6	9.8
East Chicago - Franklin/Washington Sch	180890006	30.0	20.5
Gary - Madison St	180890031	29.2	17.7
East Chicago - Marina	180890034	28.6	23.6
Hammond-167th St	180890036	40.0	32.5
Michigan City - Marsh Elem. Sch.	180910011	24.2	20
Indianapolis - Washington Park	180970078	18.3	6.6
Ogden Dunes	181270024	25.1	16.5
South Bend - Shields Dr.	181410015	25.1	19
Lafayette - Greenbush St	181570008	20.4	12.6
Terre Haute - Lafayette Ave	181670018	19.5	8.9
Larwill	181830003	25.4	19.5

Backward Trajectories

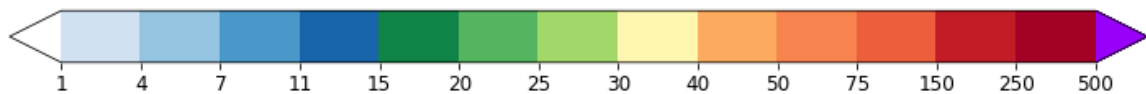
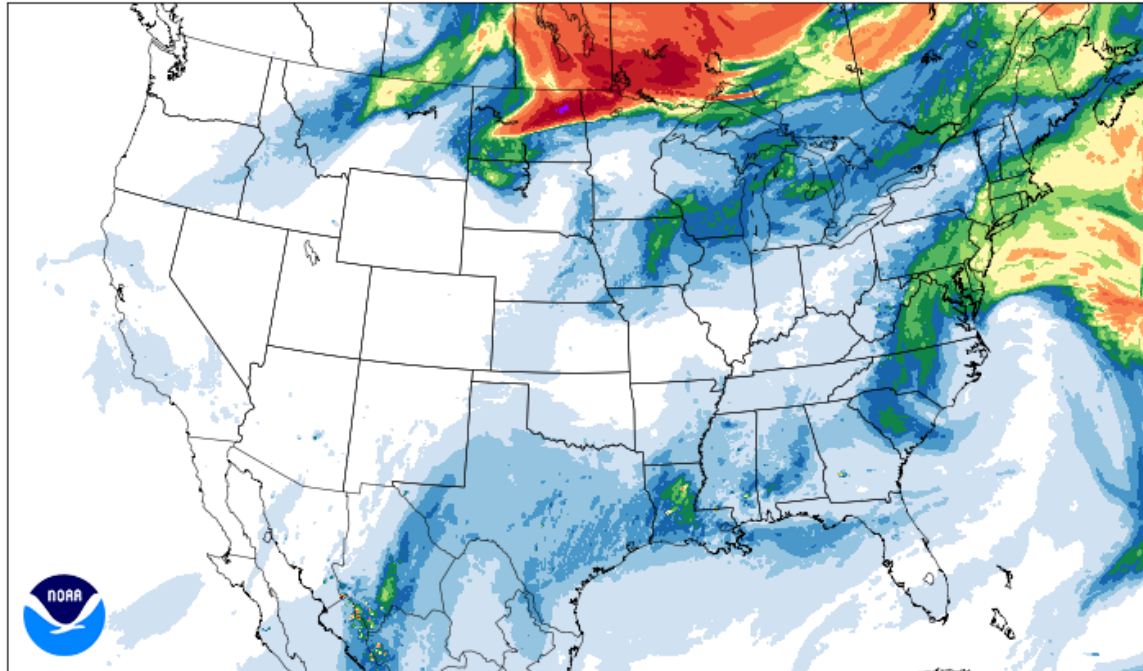


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250606 00 UTC

Fcst Hr: 19, Valid Time 20250606 19 UTC

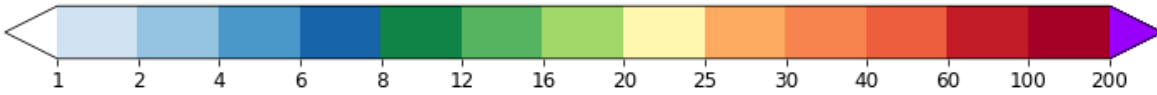
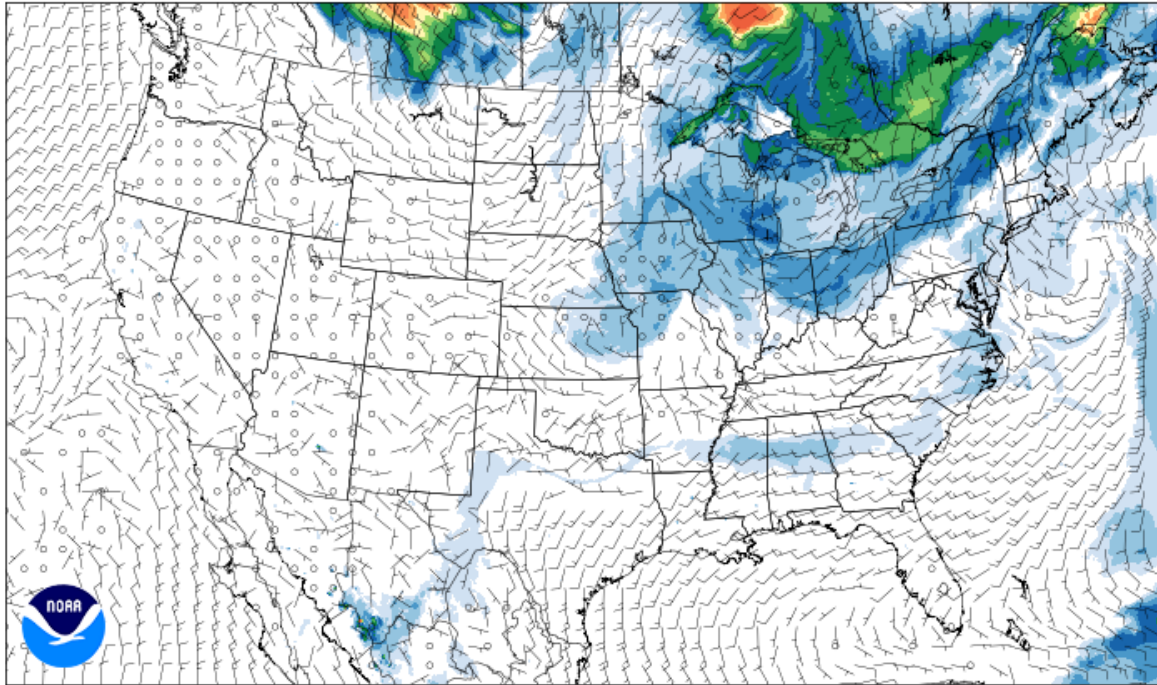


HRRR Smoke – Near Surface Smoke

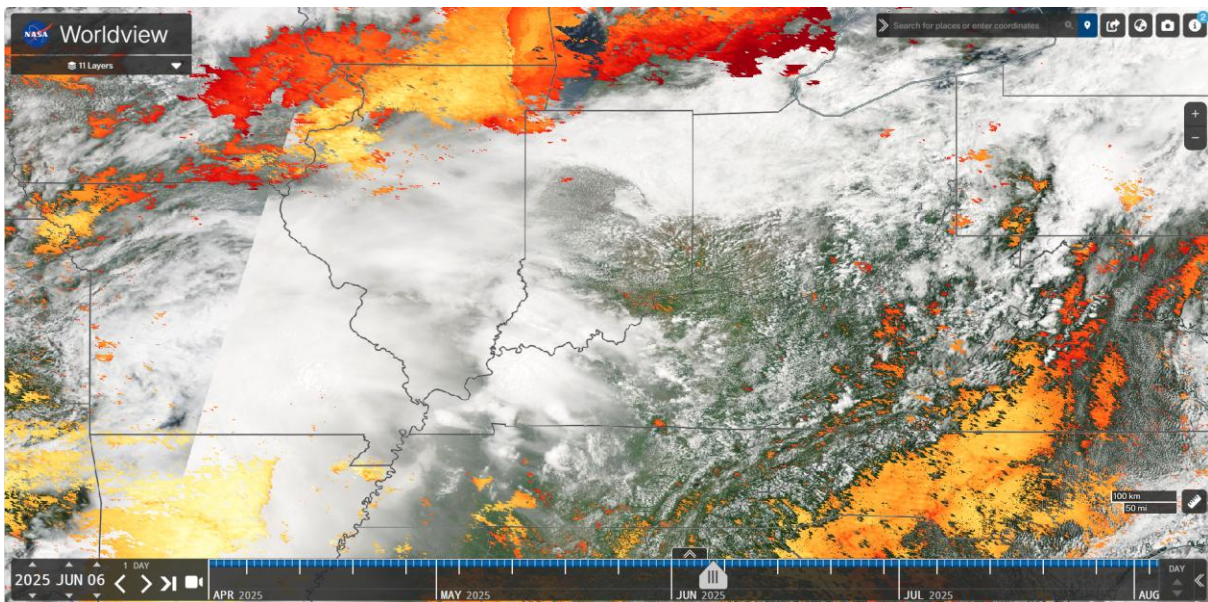
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250606 00 UTC

Fcst Hr: 39, Valid Time 20250607 15 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1600Z June 6th, 2025

SMOKE:

Canada / Central and Eastern United States / Atlantic Ocean / Gulf
of America

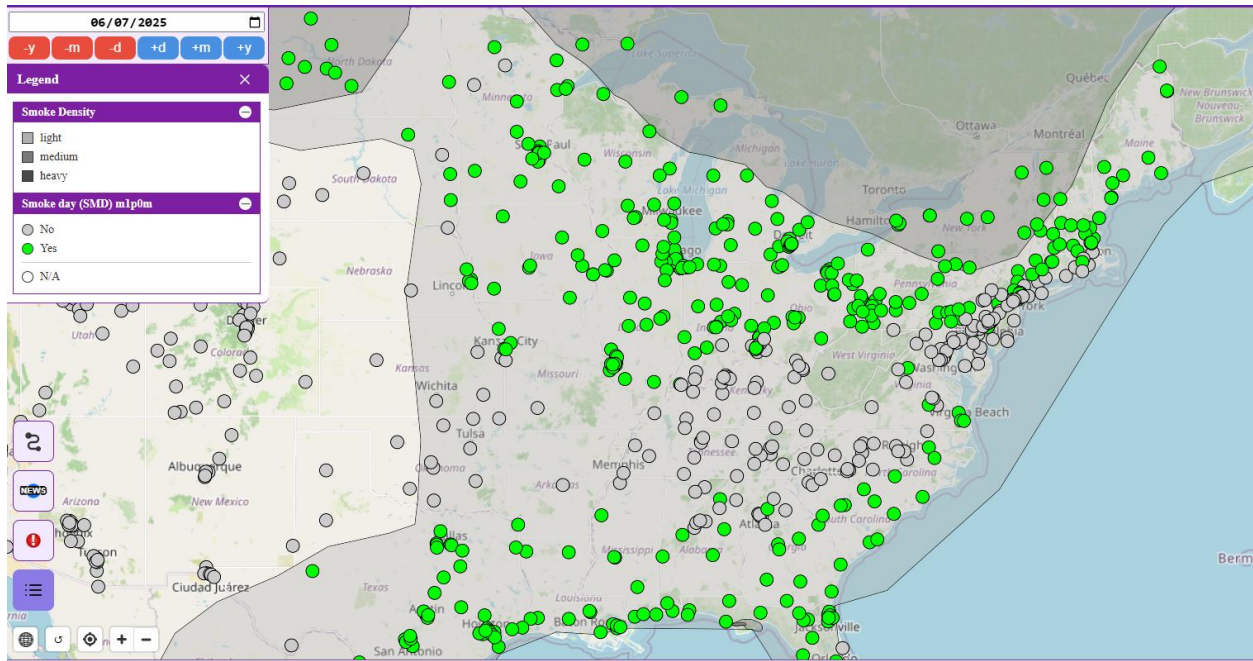
Widespread wildfire activity persisted across central and western
Canada, with active fires concentrated in the northeastern British
Columbia, northern Alberta, the southern Northwest Territories, central
Saskatchewan, Manitoba, and western Ontario. Areas of moderate to heavy
smoke were clearly observed across portions of central Saskatchewan,
central-southern Manitoba, western Ontario, and extending eastward into
Southern Quebec and over the Mid-Atlantic Ocean.

Light smoke continued to drift over much of the eastern U.S. and the
western Atlantic Ocean, with curling behavior along the East Coast.

June 7, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

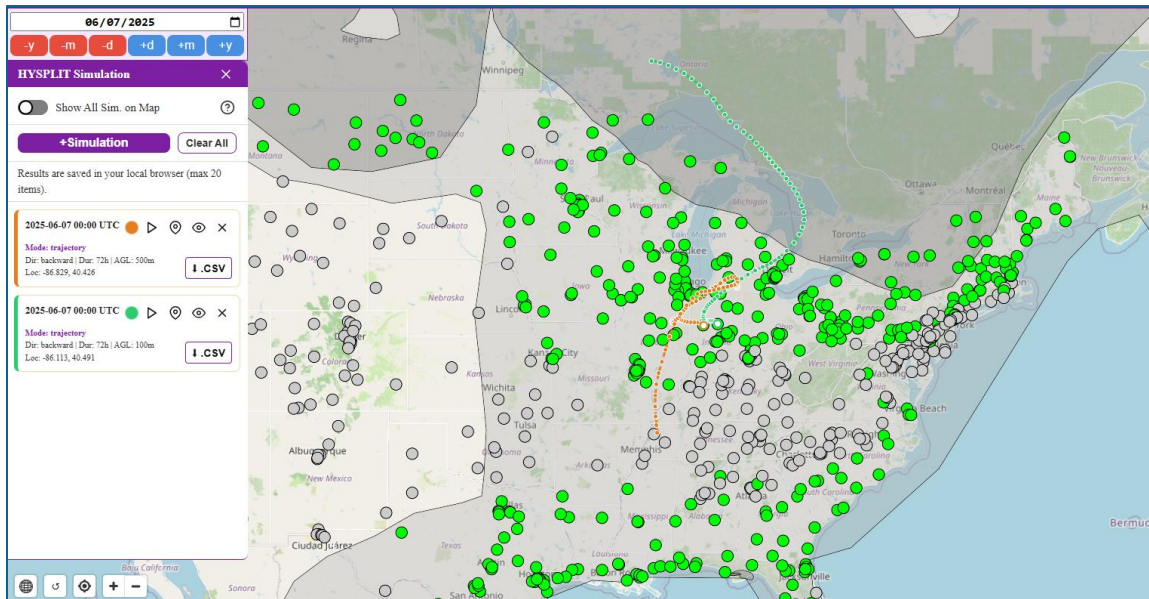
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Fort Wayne - Coliseum	180030015	6/7/2025	34.8	18
Muncie - Central HS	180350006	6/7/2025	29.1	13.2
Elkhart - Prairie St	180390008	6/7/2025	24.6	16.3
Plummer	180550001	6/7/2025	15.6	13.2
Fishers	180570007	6/7/2025	16.0	13.8
Mechanicsburg	180650003	6/7/2025	22.4	14.8
Kokomo - E. Vaile Ave	180670004	6/7/2025	28.1	13.9
East Chicago - Marina	180890034	6/7/2025	22.5	18
Hammond-167th St	180890036	6/7/2025	27.8	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/7/2025	29.5	15.9
Anderson - Eastside Elem	180950011	6/7/2025	24.7	15.4
Ogden Dunes	181270024	6/7/2025	19.7	15.3
South Bend - Shields Dr.	181410015	6/7/2025	37.2	16.9
Lafayette - Greenbush St	181570008	6/7/2025	32.5	15.1
Larwill	181830003	6/7/2025	29.1	15

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor name	AQS	Daily average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Fort Wayne - Coliseum	180030015	34.8	26.2
Muncie - Central HS	180350006	29.1	20.8
Elkhart - Prairie St	180390008	24.6	15.1
Plummer	180550001	15.6	8.3
Fishers	180570007	16.0	7.7
Mechanicsburg	180650003	22.4	14.2
Kokomo - E. Vaile Ave	180670004	28.1	22.1
East Chicago - Marina	180890034	22.5	14.9
Hammond-167th St	180890036	27.8	20.3
Michigan City - Marsh Elem. Sch.	180910011	29.5	20.9
Anderson - Eastside Elem	180950011	24.7	17.7
Ogden Dunes	181270024	19.7	11.1
South Bend - Shields Dr.	181410015	37.2	28.6
Lafayette - Greenbush St	181570008	32.5	24.8
Larwill	181830003	29.1	21.5

Backward Trajectories

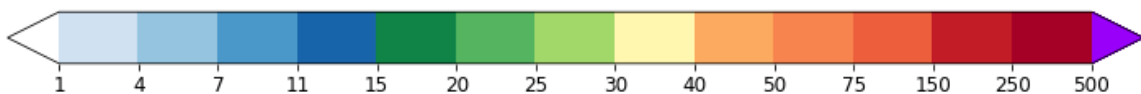
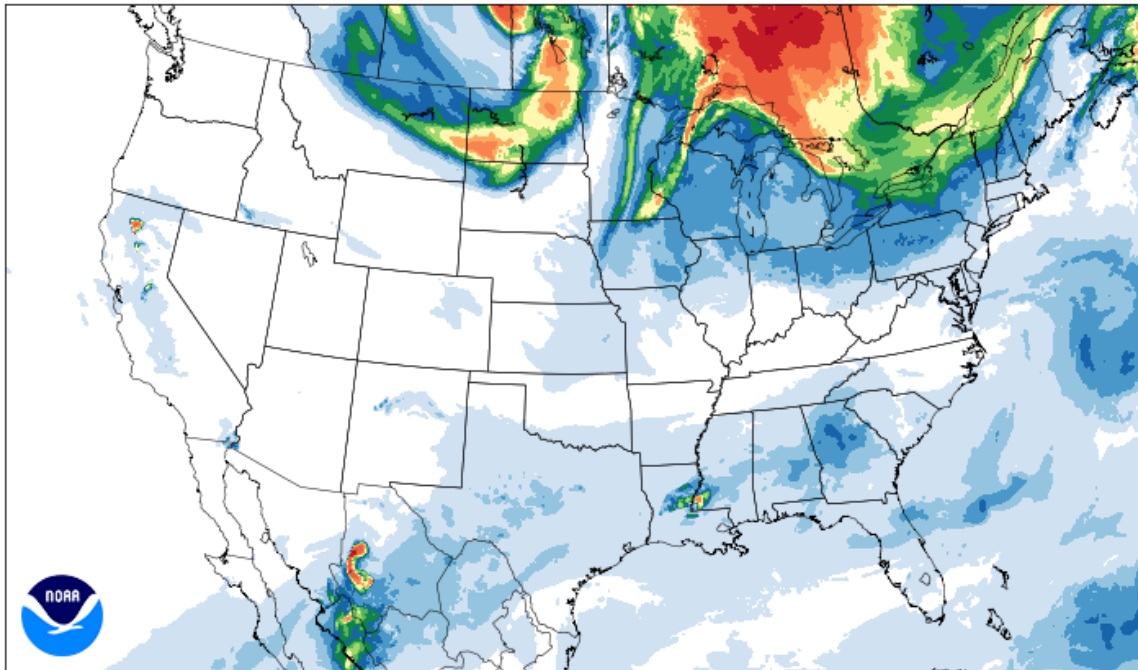


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250607 00 UTC

Fcst Hr: 27, Valid Time 20250608 03 UTC

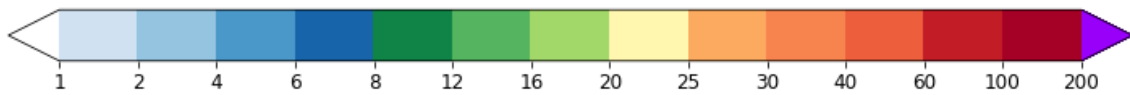
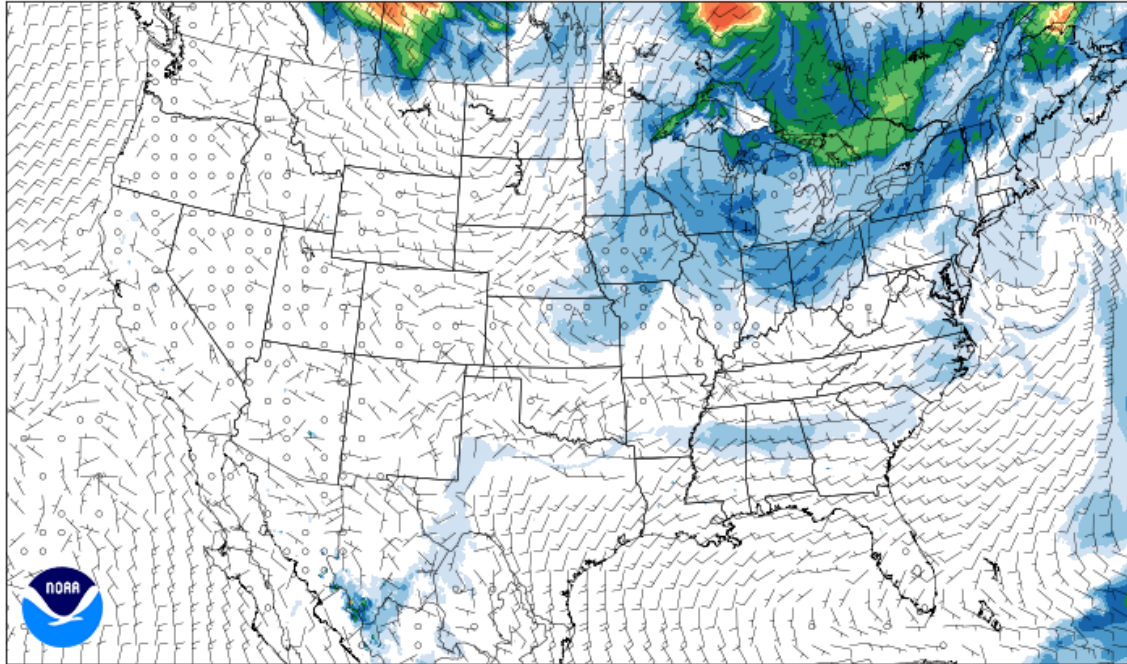


HRRR Smoke – Near Surface Smoke

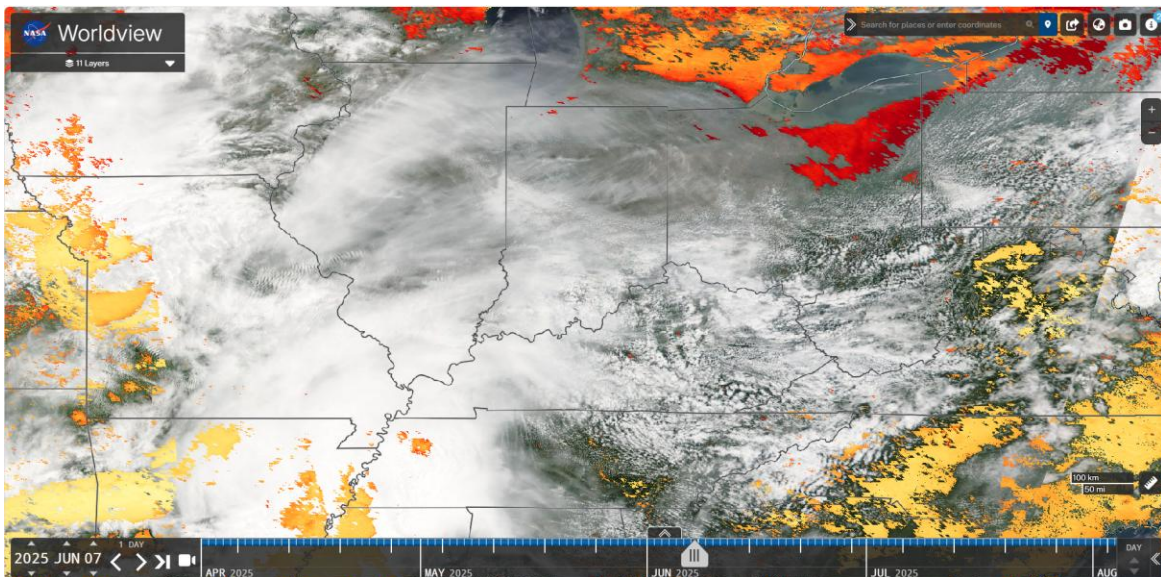
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250606 00 UTC

Fcst Hr: 39, Valid Time 20250607 15 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0100Z June 7th, 2025

SMOKE:

Canada/Central and Eastern United States/Northern Gulf of America/Atlantic
Ocean/Europe/Northern Africa...

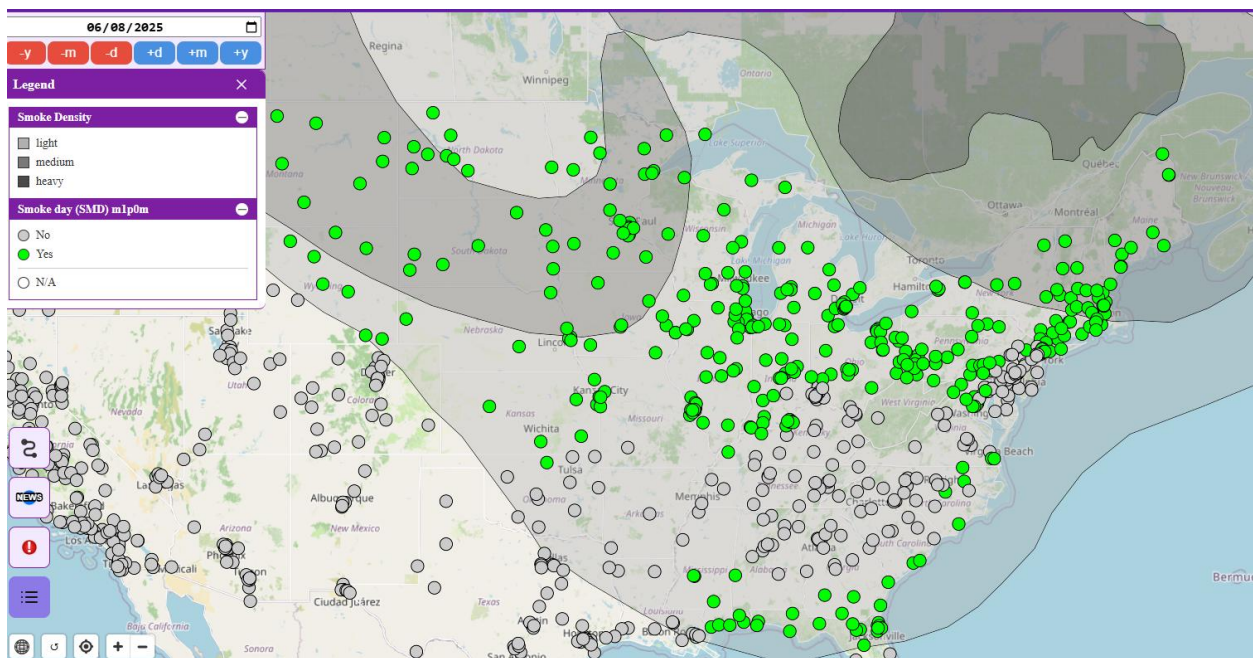
Wildfire activity across Western and Central Canada continues to produce thick smoke that blankets an area that covers a significant portion of Canada, the Central & Eastern CONUS, the North Atlantic, and into Europe and perhaps even northern Africa. The largest wildfires reside across central Saskatchewan into central Manitoba, northeastern British Columbia into northern Alberta, and western Ontario. Also contributing to the smoke layer is wildfire activity in Siberia, with transport observed across the Chukchi and Bering Seas then over Alaska into northwestern Canada.

June 8, 2025

PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

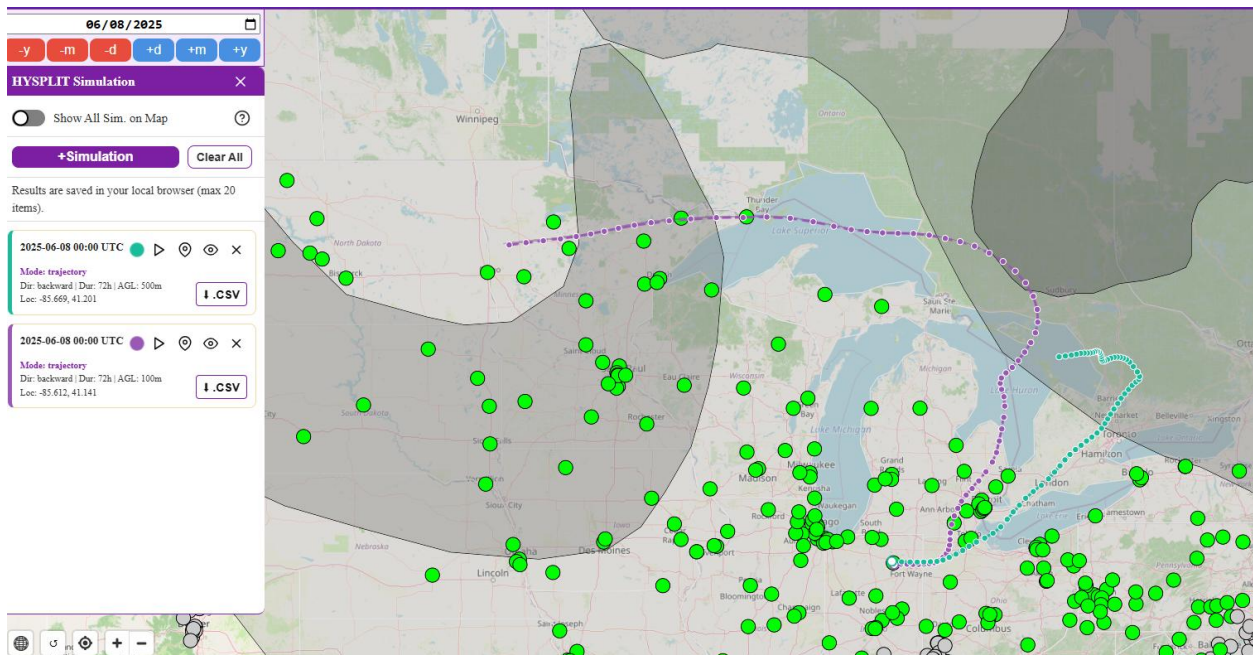
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	6/8/2025	25.2	13.2
Plummer	180550001	6/8/2025	13.9	13.2
Fishers	180570007	6/8/2025	16.8	13.8
Mechanicsburg	180650003	6/8/2025	19.4	14.8
Kokomo - E. Vaile Ave	180670004	6/8/2025	19.1	13.9
East Chicago - Marina	180890034	6/8/2025	21.4	18
Hammond-167th St	180890036	6/8/2025	25.3	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/8/2025	23.5	15.9
Anderson - Eastside Elem	180950011	6/8/2025	21.6	15.4
Ogden Dunes	181270024	6/8/2025	19.4	15.3
South Bend - Shields Dr.	181410015	6/8/2025	22.2	16.9
Lafayette - Greenbush St	181570008	6/8/2025	21.9	15.1
Larwill	181830003	6/8/2025	27.0	15

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Muncie - Central HS	180350006	6/8/2025	25.2	16.9
Plummer	180550001	6/8/2025	13.9	6.6
Fishers	180570007	6/8/2025	16.8	8.5
Mechanicsburg	180650003	6/8/2025	19.4	11.2
Kokomo - E. Vaile Ave	180670004	6/8/2025	19.1	13
East Chicago - Marina	180890034	6/8/2025	21.4	13.8
Hammond-167th St	180890036	6/8/2025	25.3	17.7
Michigan City - Marsh Elem. Sch.	180910011	6/8/2025	23.5	14.9
Anderson - Eastside Elem	180950011	6/8/2025	21.6	14.6
Ogden Dunes	181270024	6/8/2025	19.4	10.8
South Bend - Shields Dr.	181410015	6/8/2025	22.2	13.6
Lafayette - Greenbush St	181570008	6/8/2025	21.9	14.2
Larwill	181830003	6/8/2025	27.0	19.4

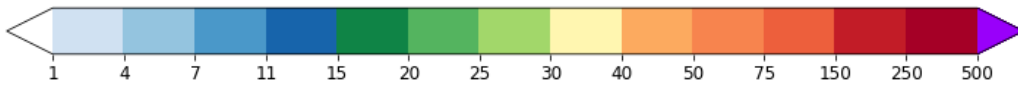
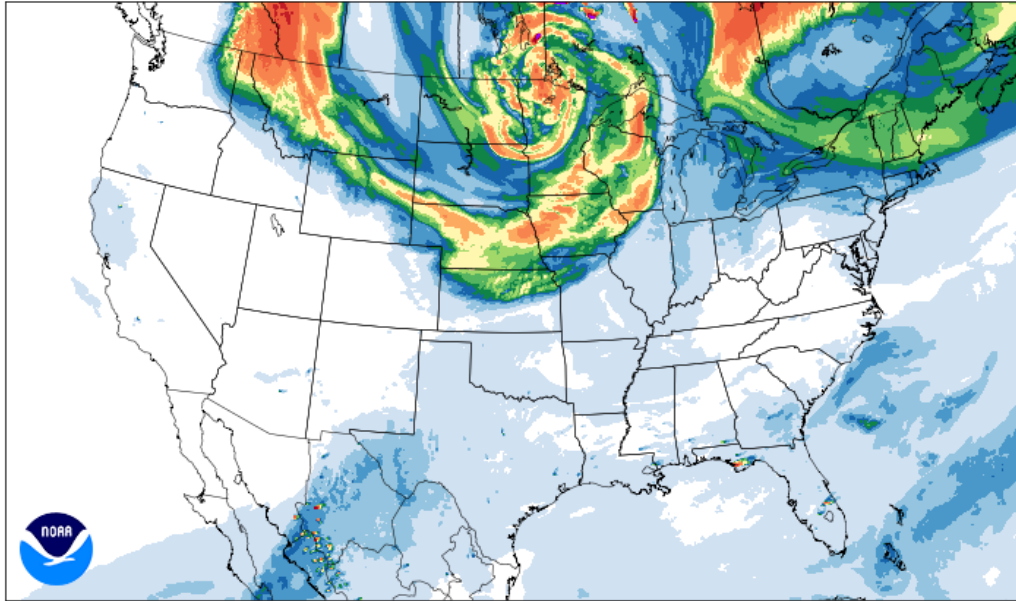
Backward Trajectories



HRRR Smoke - Vertically Integrated SmokeVertically Integrated Smoke (mg/m^2 , shaded)

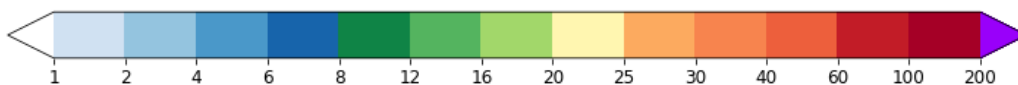
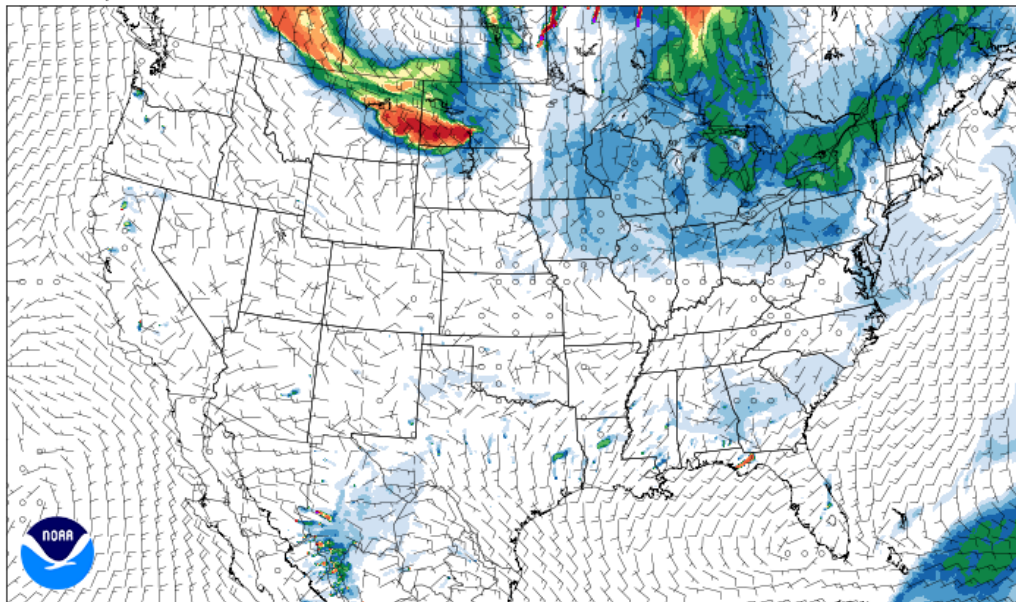
HRRR-NCEP: 20250608 00 UTC

Fcst Hr: 20, Valid Time 20250608 20 UTC

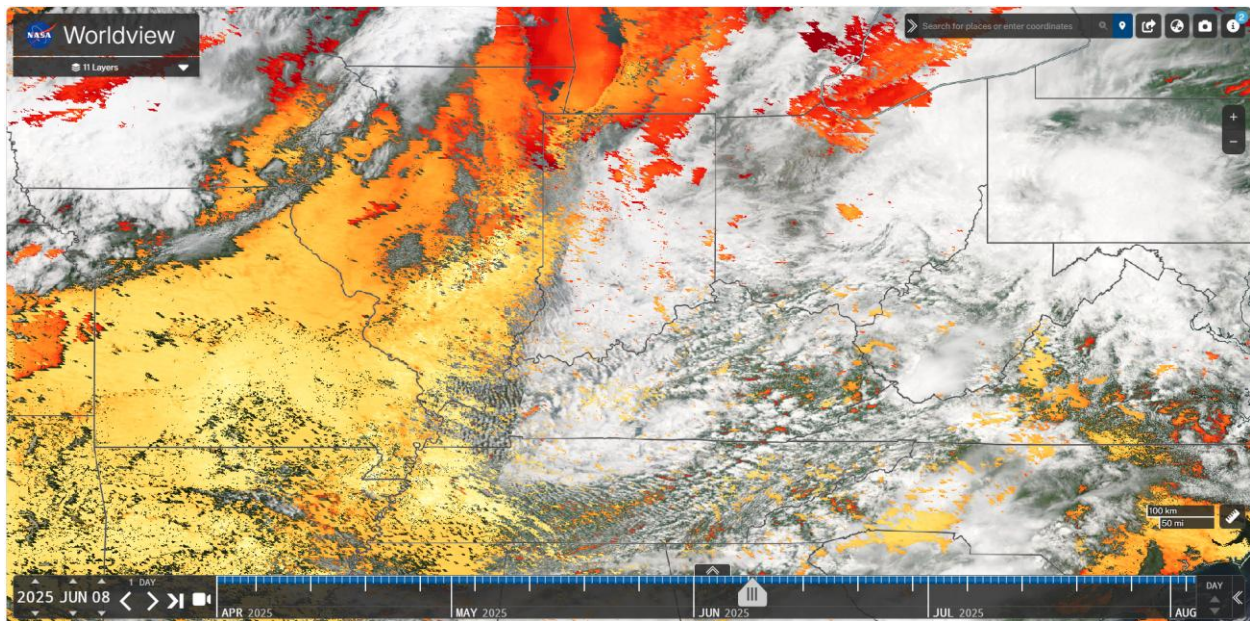
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250608 00 UTC

Fcst Hr: 1, Valid Time 20250608 01 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 2350Z June 8th, 2025

SMOKE:

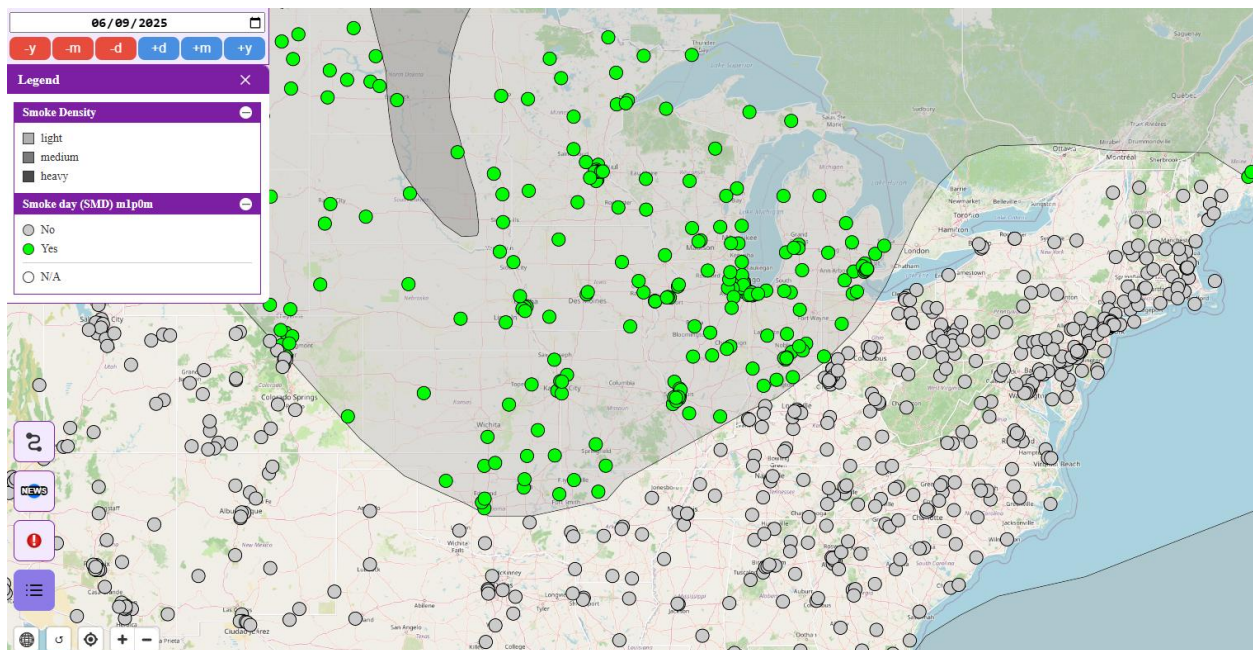
Canada/Central and Eastern United States/Atlantic Ocean/Europe...

Wildfire activity across Western and Central Canada continues to produce thick smoke that is spreading east from northeast British Columbia to Quebec and the northeastern United States. Light smoke covers most of Alaska, Canada, and the United States east of the Rockies, and moves east over the Atlantic towards Europe.

June 9, 2025

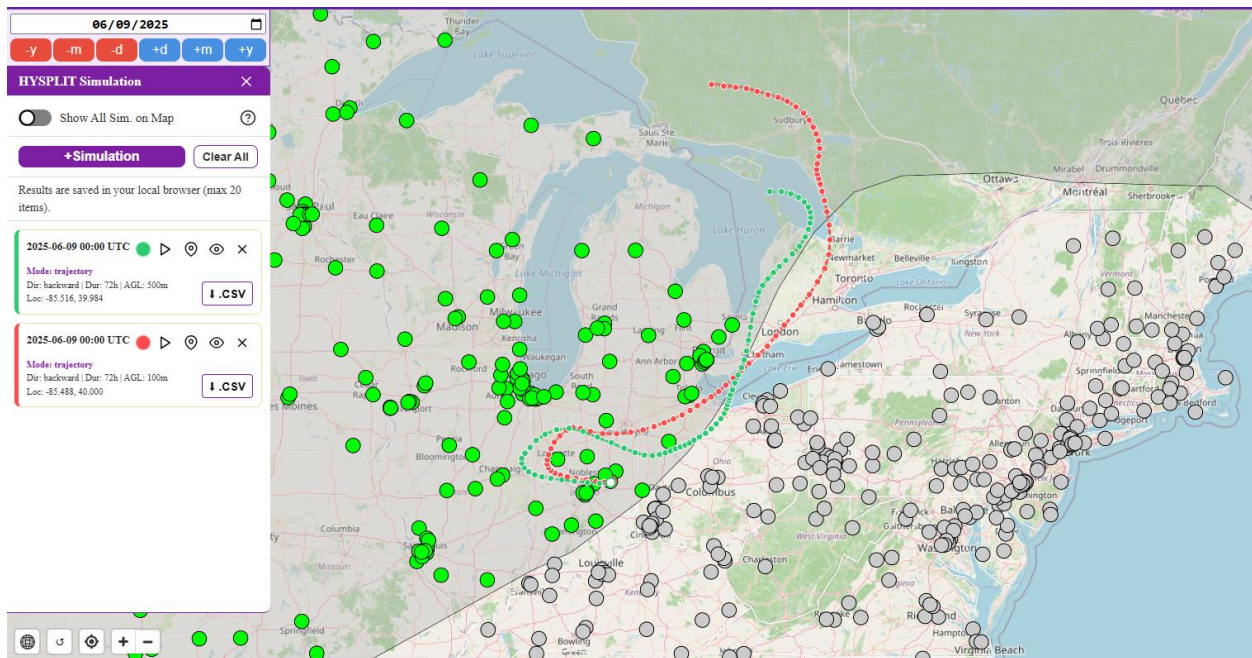
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Fishers	180570007	6/9/2025	14.5	13.8
Mechanicsburg	180650003	6/9/2025	16.1	14.8
Hammond-167th St	180890036	6/9/2025	21.2	16.2
Ogden Dunes	181270024	6/9/2025	16.2	15.3

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Fishers	180570007	6/9/2025	14.5	6.2
Mechanicsburg	180650003	6/9/2025	16.1	7.9
Hammond-167th St	180890036	6/9/2025	21.2	13.6
Ogden Dunes	181270024	6/9/2025	16.2	7.6

Backward Trajectories

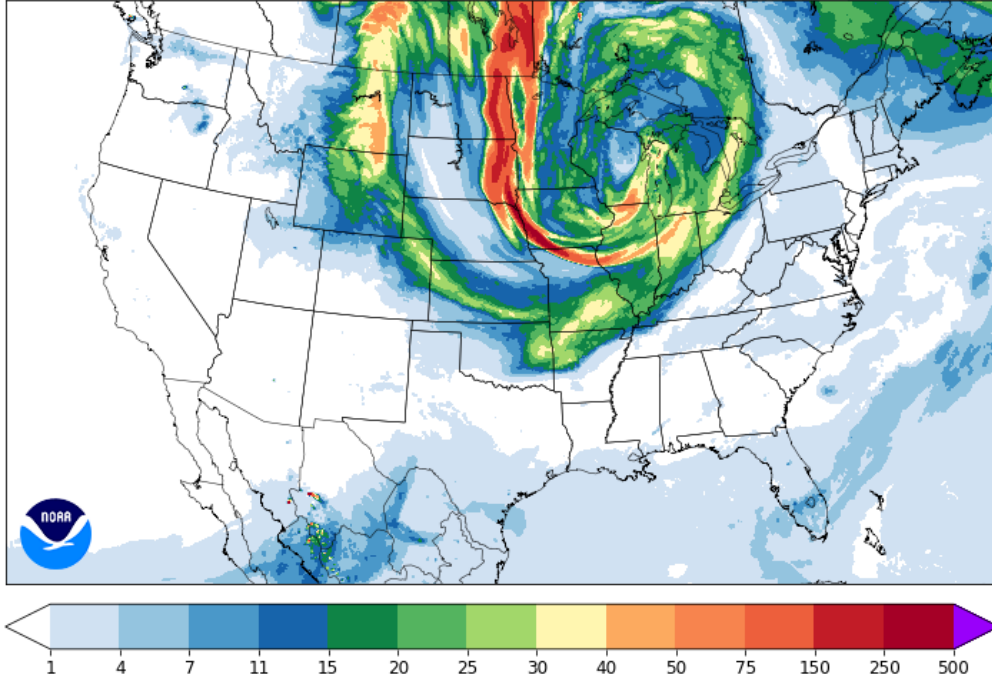


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250609 00 UTC

Fcst Hr: 19, Valid Time 20250609 19 UTC

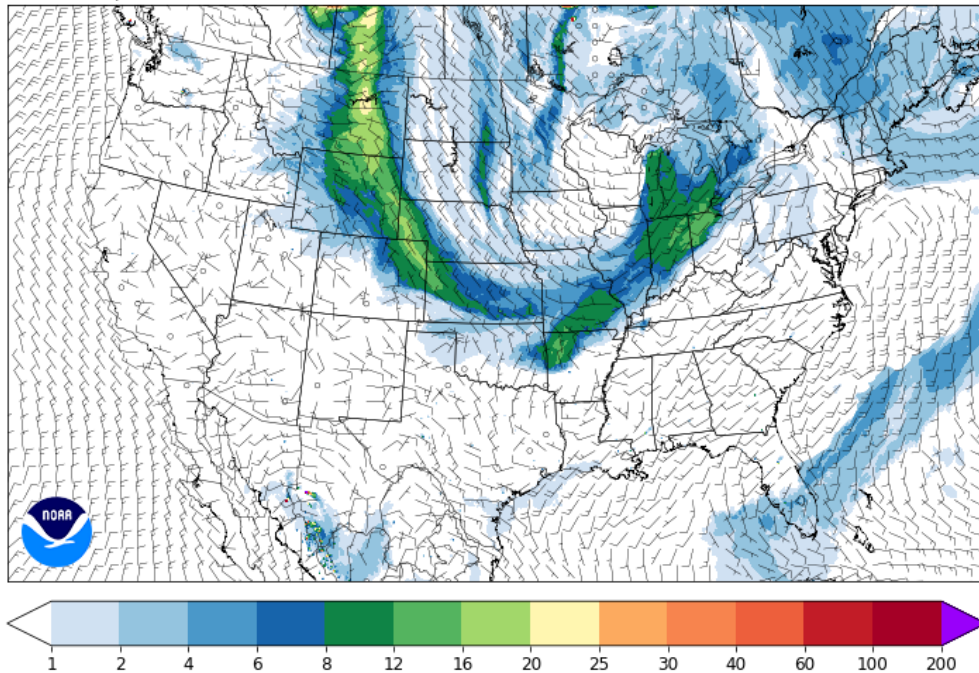


HRRR Smoke – Near Surface Smoke

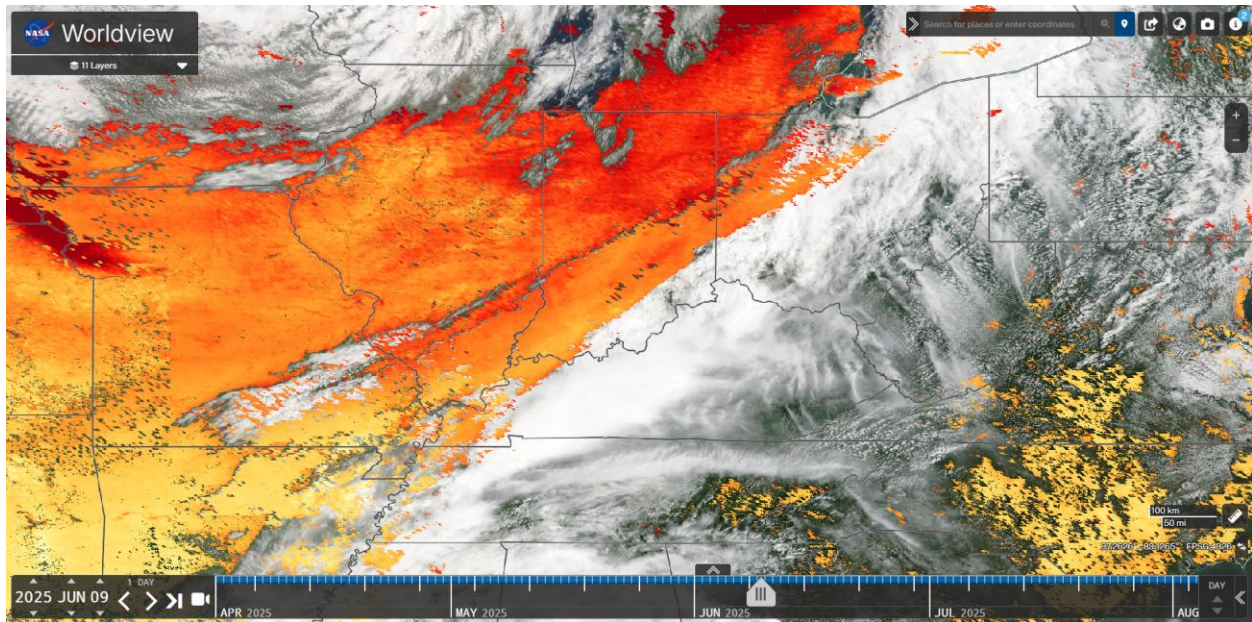
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250609 00 UTC

Fcst Hr: 19, Valid Time 20250609 19 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1510Z June 9th, 2025

SMOKE:

Canada/Central United States/Atlantic Ocean/Europe...

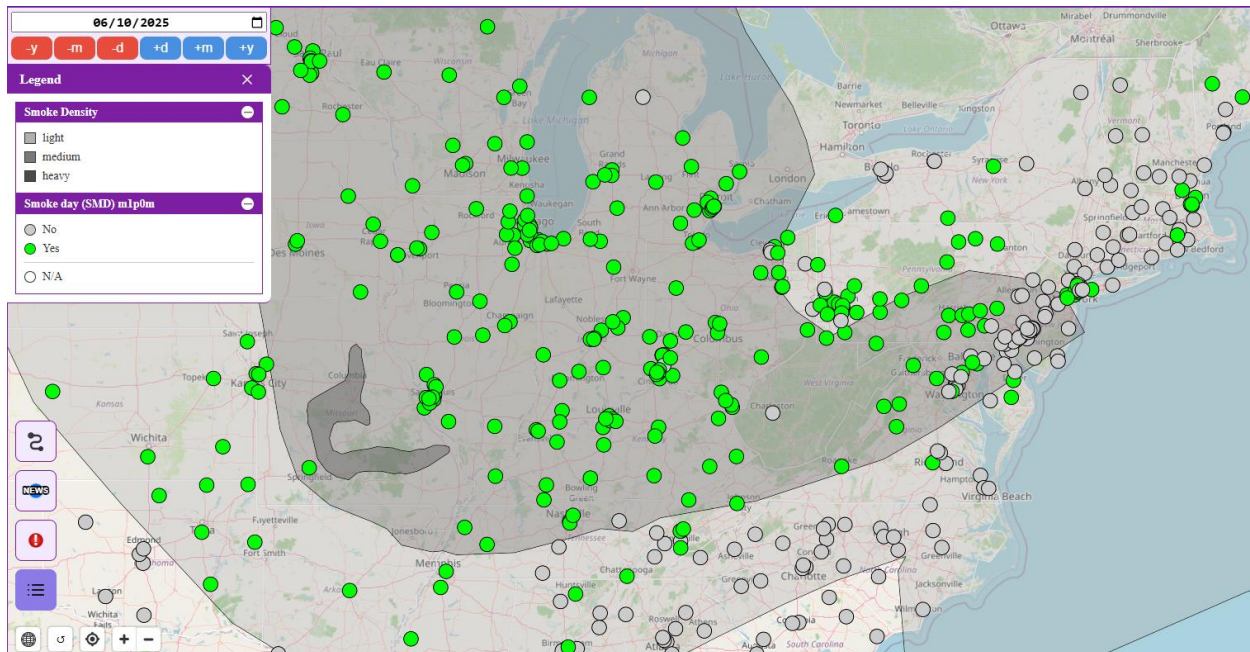
Wildfire activity in northeastern British Columbia, north-central Alberta, and central Ontario continues to produce moderate to thick density smoke. Thick density smoke from the wildfires was observed moving eastward across British Columbia and Alberta, while moderate smoke extended further east across Canada and drifted south into the central United States. Light-density smoke blankets most of Canada and central United States, moving eastward over the Atlantic toward Europe. Cloud cover over portions of central and eastern Canada limited smoke detection in those areas from satellite imagery.

June 10, 2025

PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

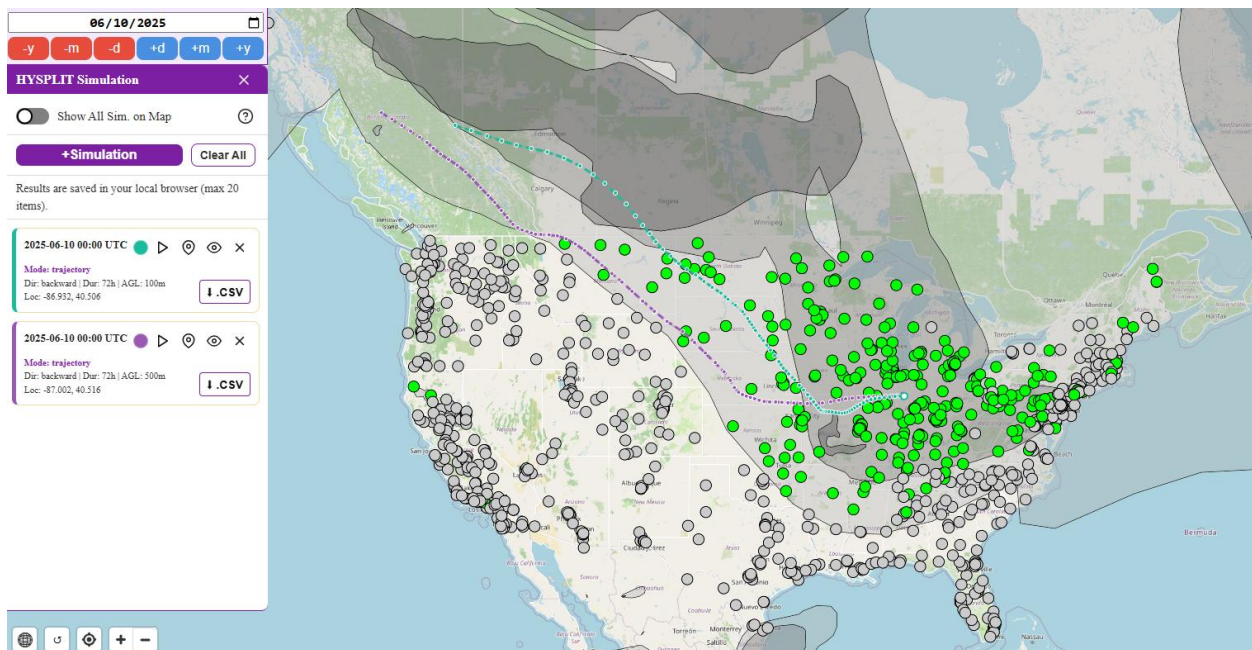
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	6/10/2025	14.5	13.2
Jasper - Post Office	180372001	6/10/2025	16.0	15.4
Plummer	180550001	6/10/2025	13.8	13.2
Hammond-167th St	180890036	6/10/2025	17.2	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/10/2025	17.2	15.9
Bloomington - Binford	181050003	6/10/2025	14.5	12.8
Dale-N Wallace St	181470011	6/10/2025	16.5	13
Evansville - Buena Vista	181630021	6/10/2025	18.5	16.4

Smokelyze Smoke Map with Estimated Smoke Concentration



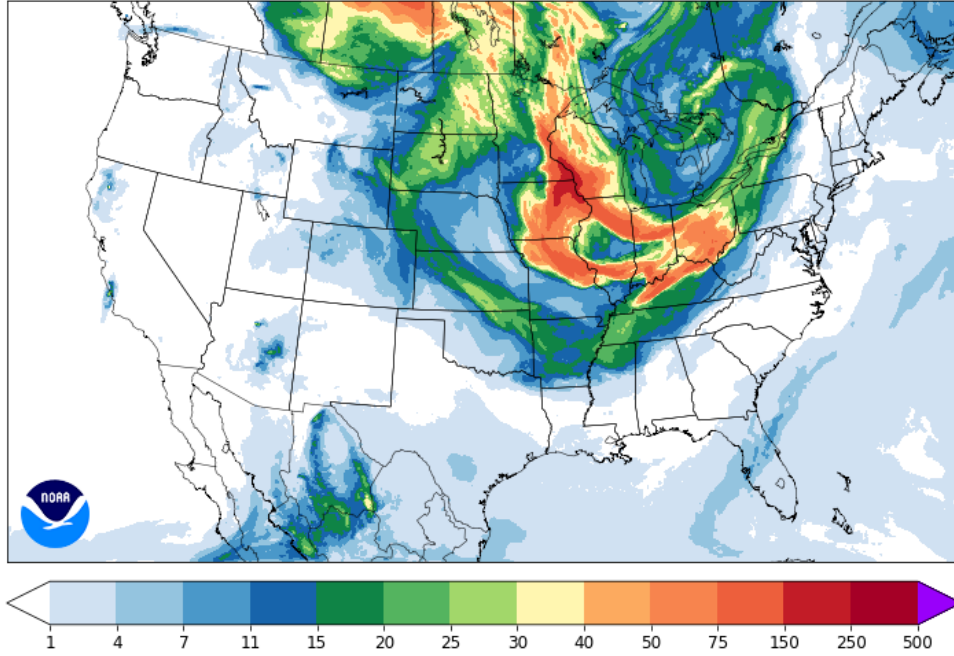
Monitor name	AQS	Date	Daily average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Muncie - Central HS	180350006	6/10/2025	14.5	6.2
Jasper - Post Office	180372001	6/10/2025	16.0	7.4
Plummer	180550001	6/10/2025	13.8	6.5
Hammond-167th St	180890036	6/10/2025	17.2	9.7
Michigan City - Marsh Elem. Sch.	180910011	6/10/2025	17.2	8.6
Bloomington - Binford	181050003	6/10/2025	14.5	6.7
Dale-N Wallace St	181470011	6/10/2025	16.5	5.1
Evansville - Buena Vista	181630021	6/10/2025	18.5	9.4

Backward Trajectories



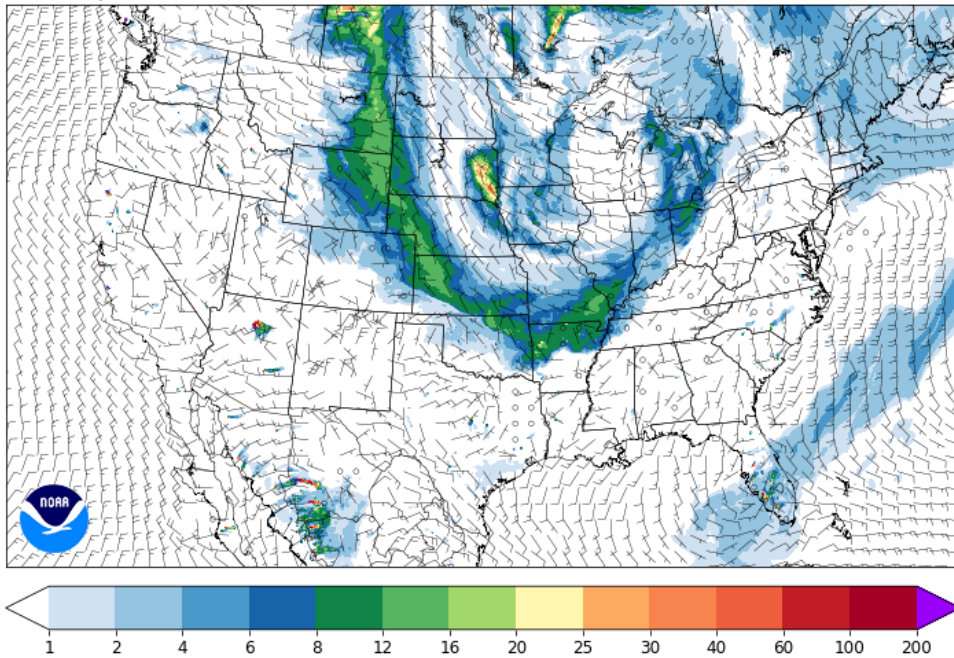
HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)
HRRR-NCEP: 20250610 00 UTC
Fcst Hr: 11, Valid Time 20250610 11 UTC

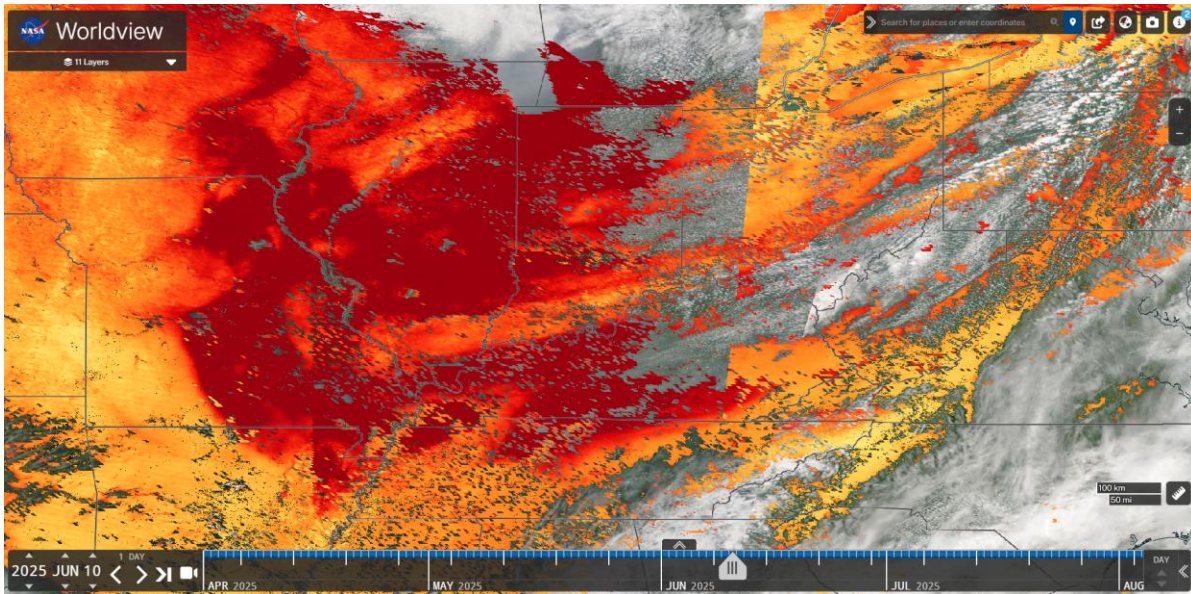


HRRR Smoke – Near Surface Smoke

Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)
HRRR-NCEP: 20250610 00 UTC
Fcst Hr: 0, Valid Time 20250610 00 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY

THROUGH 1747Z June 10, 2025

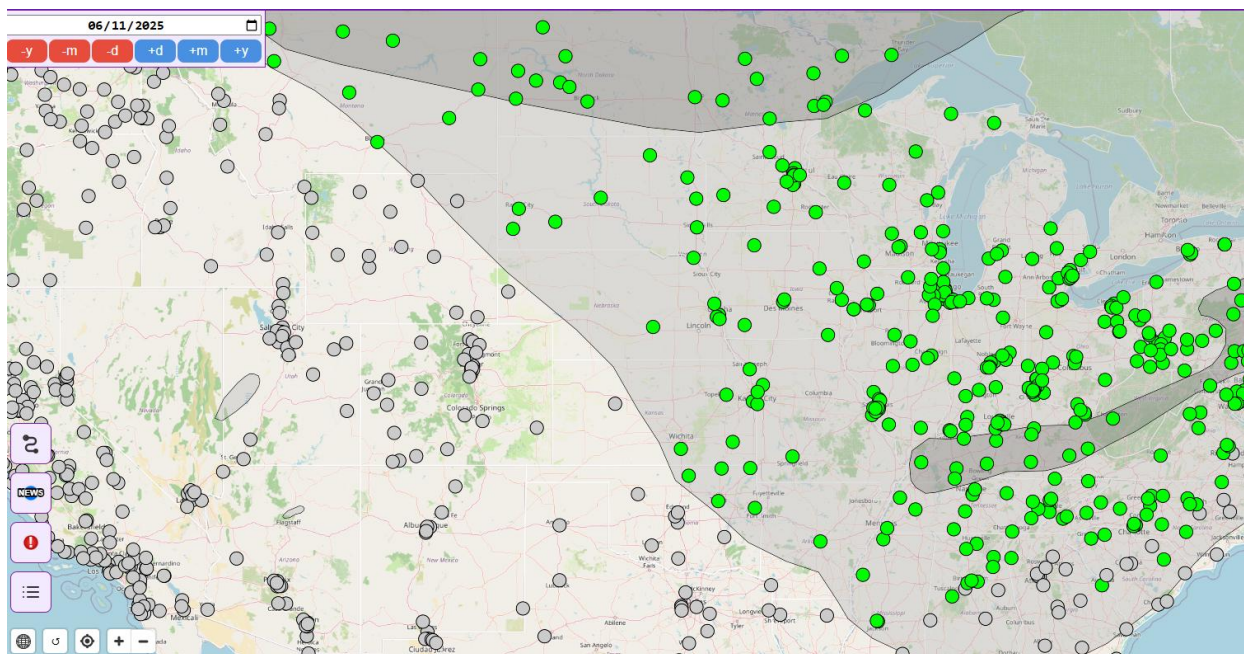
SMOKE:

Canada/Central and Eastern United States/Atlantic Ocean/Europe... Wildfire activity in northeastern British Columbia, northern Alberta, and east-central Saskatchewan continues to produce moderate to thick smoke, which is spreading east from northeastern British Columbia to Newfoundland and Labrador and drifting south over the Midwestern U.S. and the Upper Great Lakes. Lighter-density smoke blankets most of Canada and the United States east of the Rockies, moving eastward over the Atlantic toward Europe. Cloud cover over portions of central and northeastern Canada limited the detection of smoke in those areas from satellite imagery.

June 11. 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

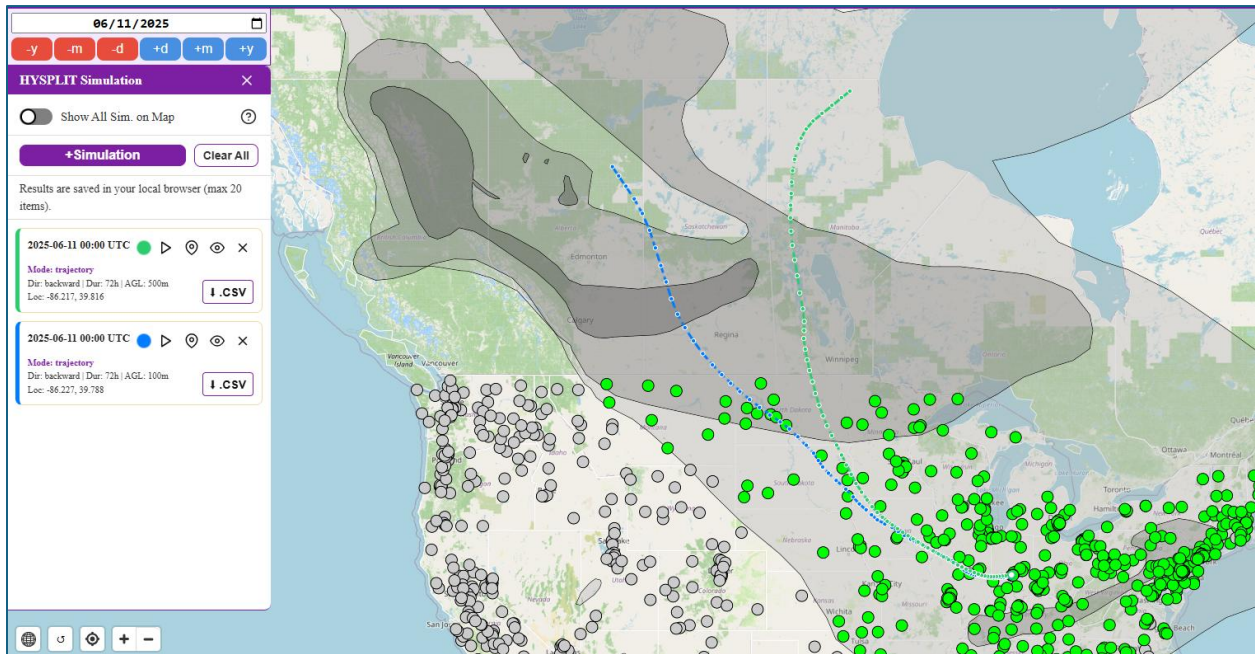
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Jeffersonville - Bates-Bowyer Ave	180190010	6/11/2025	20.6	16.6
Muncie - Central HS	180350006	6/11/2025	20.0	13.2
Jasper - Post Office	180372001	6/11/2025	18.0	15.4
Plummer	180550001	6/11/2025	17.8	13.2
Fishers	180570007	6/11/2025	20.5	13.8
Carmel - Hazel Dell Parkway	180570008	6/11/2025	20.8	16.2
Mechanicsburg	180650003	6/11/2025	20.3	14.8
East Chicago - Marina	180890034	6/11/2025	21.0	18
Hammond-167th St	180890036	6/11/2025	22.0	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/11/2025	20.8	15.9
Anderson - Eastside Elem	180950011	6/11/2025	20.1	15.4
Indianapolis - Washington Park	180970078	6/11/2025	25.0	18.1
Indianapolis - W. 18th St.	180970081	6/11/2025	32.5	24.5
Indianapolis- I-70 E	180970087	6/11/2025	23.0	20.5
Bloomington - Binford	181050003	6/11/2025	19.6	12.8
Ogden Dunes	181270024	6/11/2025	17.3	15.3
South Bend - Shields Dr.	181410015	6/11/2025	19.6	16.9
Dale-N Wallace St	181470011	6/11/2025	18.4	13
Evansville - Buena Vista	181630021	6/11/2025	22.7	16.4
Terre Haute - Lafayette Ave	181670018	6/11/2025	24.0	18.8
Larwill	181830003	6/11/2025	18.2	15

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Jeffersonville - Bates-Bowyer Ave	180190010	6/11/2025	20.6	11.1
Muncie - Central HS	180350006	6/11/2025	20.0	11.7
Jasper - Post Office	180372001	6/11/2025	18.0	9.4
Plummer	180550001	6/11/2025	17.8	10.5
Fishers	180570007	6/11/2025	20.5	12.2
Carmel - Hazel Dell Parkway	180570008	6/11/2025	20.8	11.5
Mechanicsburg	180650003	6/11/2025	20.3	12.1
East Chicago - Marina	180890034	6/11/2025	21.0	13.4
Hammond-167th St	180890036	6/11/2025	22.0	14.4
Michigan City - Marsh Elem. Sch.	180910011	6/11/2025	20.8	12.1
Anderson - Eastside Elem	180950011	6/11/2025	20.1	13.1
Indianapolis - Washington Park	180970078	6/11/2025	25.0	13.3
Indianapolis - W. 18th St.	180970081	6/11/2025	32.5	22
Indianapolis- I-70 E	180970087	6/11/2025	23.0	13
Bloomington - Binford	181050003	6/11/2025	19.6	11.8
Ogden Dunes	181270024	6/11/2025	17.3	8.7
South Bend - Shields Dr.	181410015	6/11/2025	19.6	11
Dale-N Wallace St	181470011	6/11/2025	18.4	7
Evansville - Buena Vista	181630021	6/11/2025	22.7	13.6
Terre Haute - Lafayette Ave	181670018	6/11/2025	24.0	13.5
Larwill	181830003	6/11/2025	18.2	10.6

Backward Trajectories

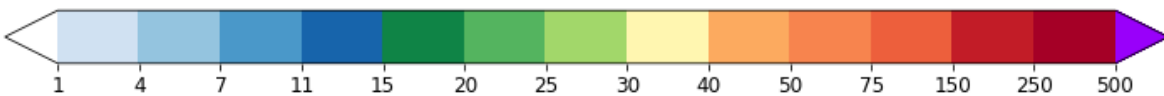
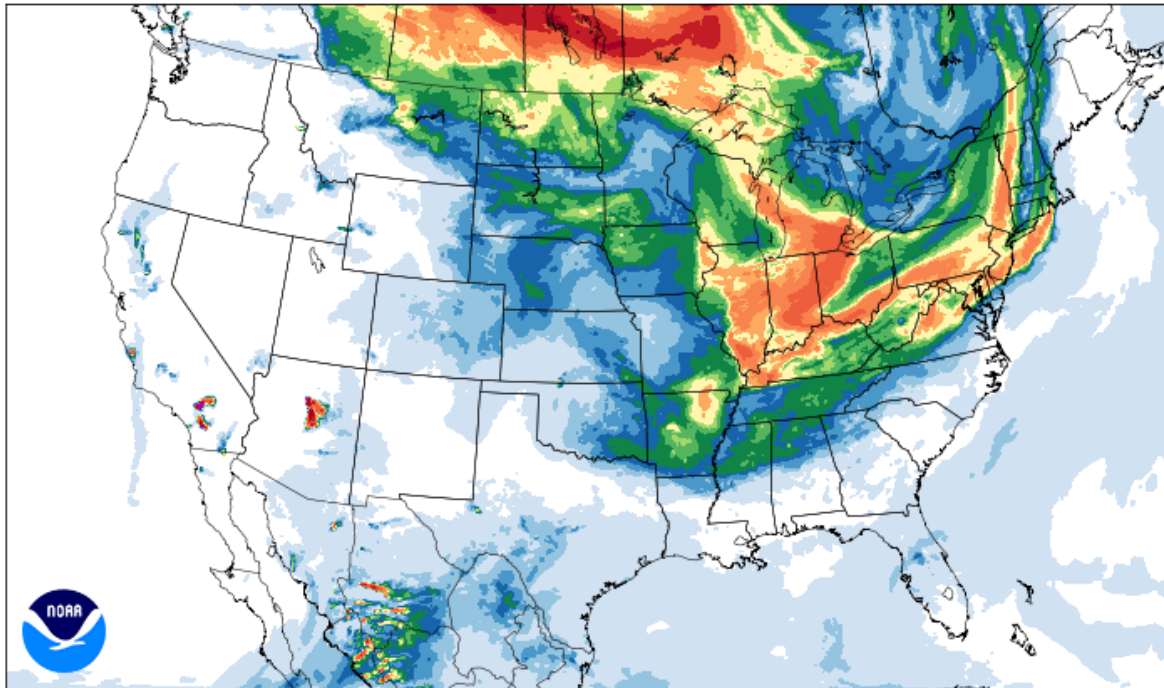


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250611 00 UTC

Fcst Hr: 1, Valid Time 20250611 01 UTC

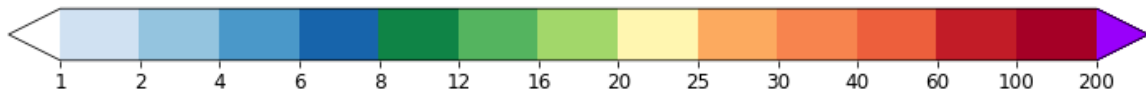
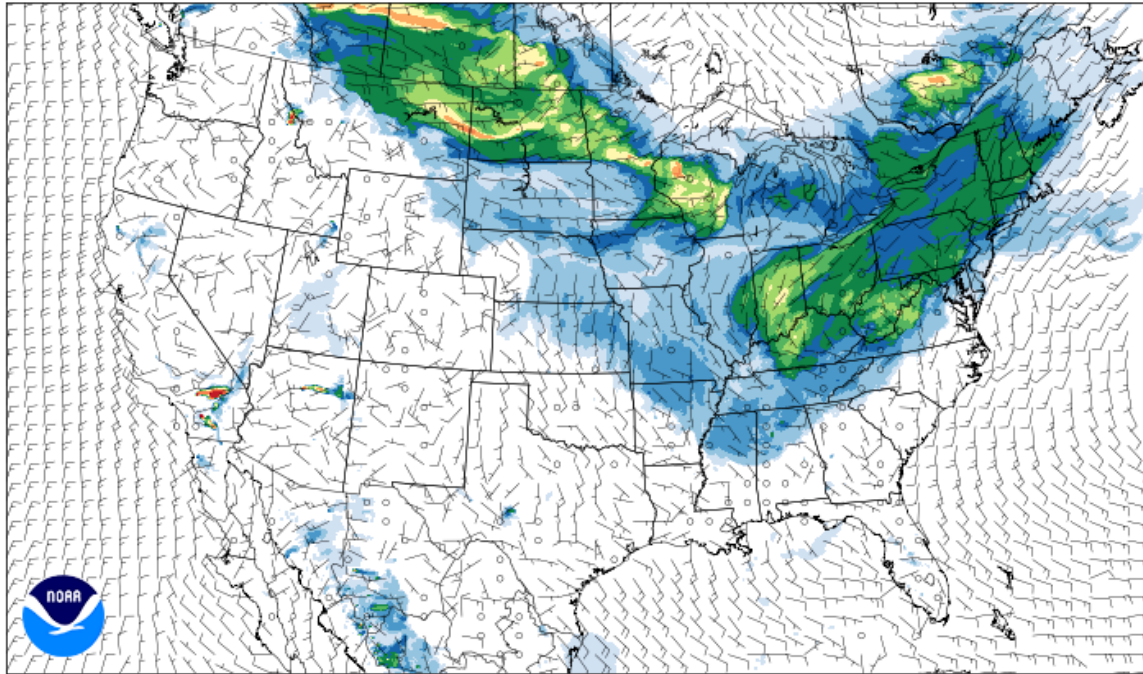


HRRR Smoke – Near Surface Smoke

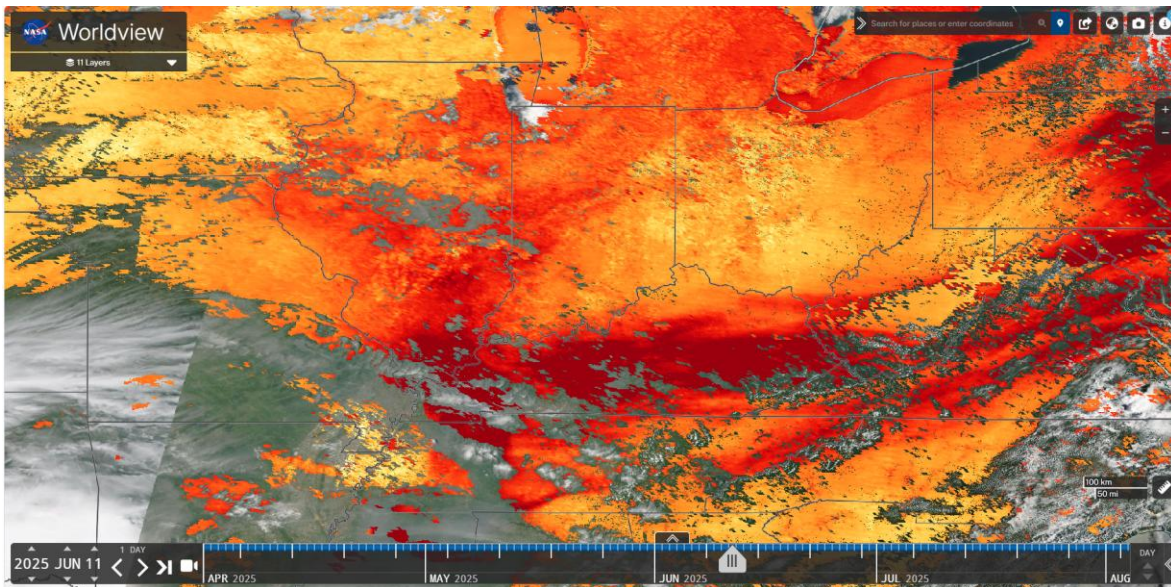
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250611 00 UTC

Fcst Hr: 29, Valid Time 20250612 05 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1400Z June 11, 2025

SMOKE:

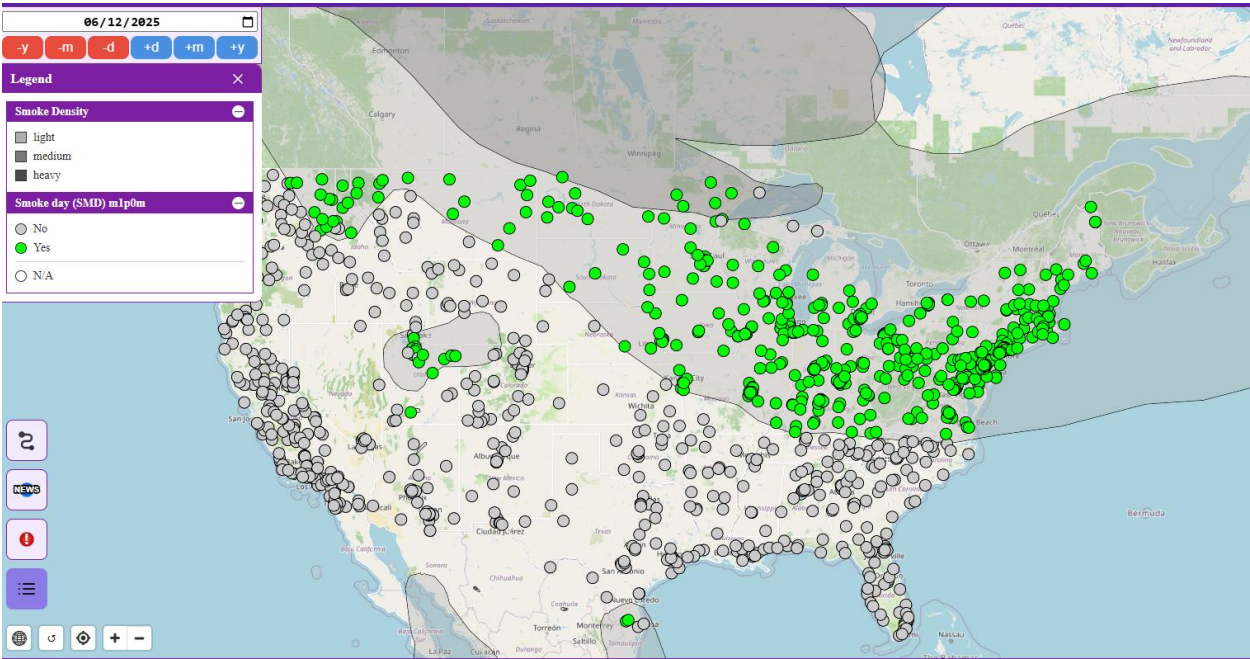
Canada/Central and Eastern United States/Atlantic Ocean/Europe...

Wildfire activity through Central and western Canada continues to produce moderate-to-thick smoke extending westward over Northern Yukon and Central-Eastern Alaska and east-southeastward into the Northern Plains, Midwest, and Great Lakes, Ohio Valley and Mid-Atlantic states, with higher concentrations found around Northeastern British Columbia and Central-Southern Alberta and Saskatchewan. Additional light-to-moderate density smoke emitted from those same wildfires in the previous days is also observed moving eastward across the Northern Atlantic and approaching the United Kingdom.

June 12, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

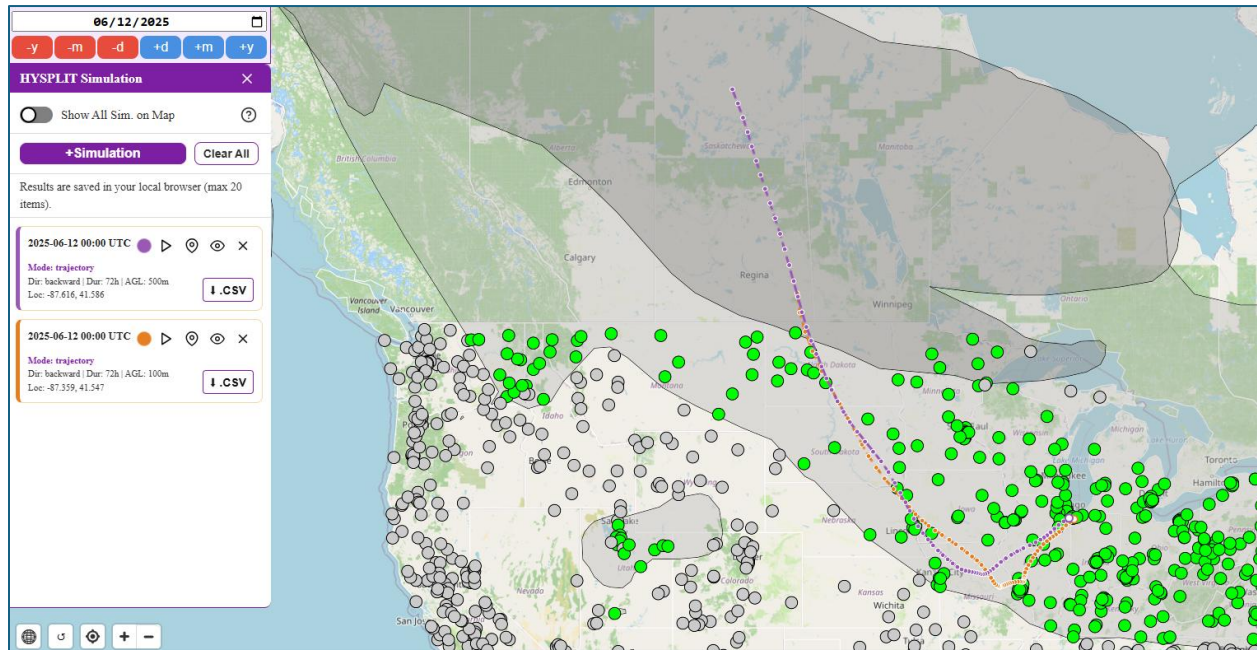
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Columbus - Rocky Ford Drive	180050008	6/12/2025	15.9	13.4
Jeffersonville - Bates-Bowyer Ave	180190010	6/12/2025	19.4	16.6
Muncie - Central HS	180350006	6/12/2025	22.4	13.2
Jasper - Post Office	180372001	6/12/2025	17.6	15.4
Elkhart - Prairie St	180390008	6/12/2025	24.7	16.3
New Albany	180430008	6/12/2025	18.2	13.7
Plummer	180550001	6/12/2025	18.9	13.2
Fishers	180570007	6/12/2025	25.4	13.8
Carmel - Hazel Dell Parkway	180570008	6/12/2025	26.5	16.2
Mechanicsburg	180650003	6/12/2025	24.9	14.8
East Chicago - Franklin/Washington Sch	180890006	6/12/2025	25.6	16.1
Gary - Madison St	180890031	6/12/2025	30.6	16
East Chicago - Marina	180890034	6/12/2025	23.5	18
Hammond-167th St	180890036	6/12/2025	30.1	16.2
Michigan City - Marsh Elem. Sch.	180910011	6/12/2025	22.5	15.9
Anderson - Eastside Elem	180950011	6/12/2025	25.5	15.4
Indianapolis - Washington Park	180970078	6/12/2025	29.9	18.1
Indianapolis - W. 18th St.	180970081	6/12/2025	26.4	24.5
Indianapolis- I-70 E	180970087	6/12/2025	27.5	20.5
Bloomington - Binford	181050003	6/12/2025	17.2	12.8
Ogden Dunes	181270024	6/12/2025	22.8	15.3
South Bend - Shields Dr.	181410015	6/12/2025	24.3	16.9
Dale-N Wallace St	181470011	6/12/2025	21.6	13
Evansville - Buena Vista	181630021	6/12/2025	22.4	16.4
Terre Haute - Lafayette Ave	181670018	6/12/2025	31.3	18.8
Larwill	181830003	6/12/2025	24.7	15

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Columbus - Rocky Ford Drive	180050008	6/12/2025	15.9	7.2
Jeffersonville - Bates-Bowyer Ave	180190010	6/12/2025	19.4	11.5
Muncie - Central HS	180350006	6/12/2025	22.4	16.5
Jasper - Post Office	180372001	6/12/2025	17.6	11
Elkhart - Prairie St	180390008	6/12/2025	24.7	15.2
New Albany	180430008	6/12/2025	18.2	NA
Plummer	180550001	6/12/2025	18.9	12.7
Fishers	180570007	6/12/2025	25.4	17.1
Carmel - Hazel Dell Parkway	180570008	6/12/2025	26.5	17.2
Mechanicsburg	180650003	6/12/2025	24.9	16.7
East Chicago - Franklin/Washington Sch	180890006	6/12/2025	25.6	16.1
Gary - Madison St	180890031	6/12/2025	30.6	18.5
East Chicago - Marina	180890034	6/12/2025	23.5	17
Hammond-167th St	180890036	6/12/2025	30.1	22.8
Michigan City - Marsh Elem. Sch.	180910011	6/12/2025	22.5	16.8
Anderson - Eastside Elem	180950011	6/12/2025	25.5	18.5
Indianapolis - Washington Park	180970078	6/12/2025	29.9	18.1
Indianapolis - W. 18th St.	180970081	6/12/2025	26.4	18
Indianapolis- I-70 E	180970087	6/12/2025	27.5	15.1
Bloomington - Binford	181050003	6/12/2025	17.2	10.8
Ogden Dunes	181270024	6/12/2025	22.8	14.2
South Bend - Shields Dr.	181410015	6/12/2025	24.3	16.8
Dale-N Wallace St	181470011	6/12/2025	21.6	10.1
Evansville - Buena Vista	181630021	6/12/2025	22.4	11.2
Terre Haute - Lafayette Ave	181670018	6/12/2025	31.3	20.8
Larwill	181830003	6/12/2025	24.7	19.6

Backward Trajectories

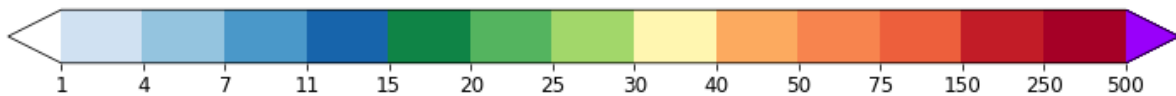
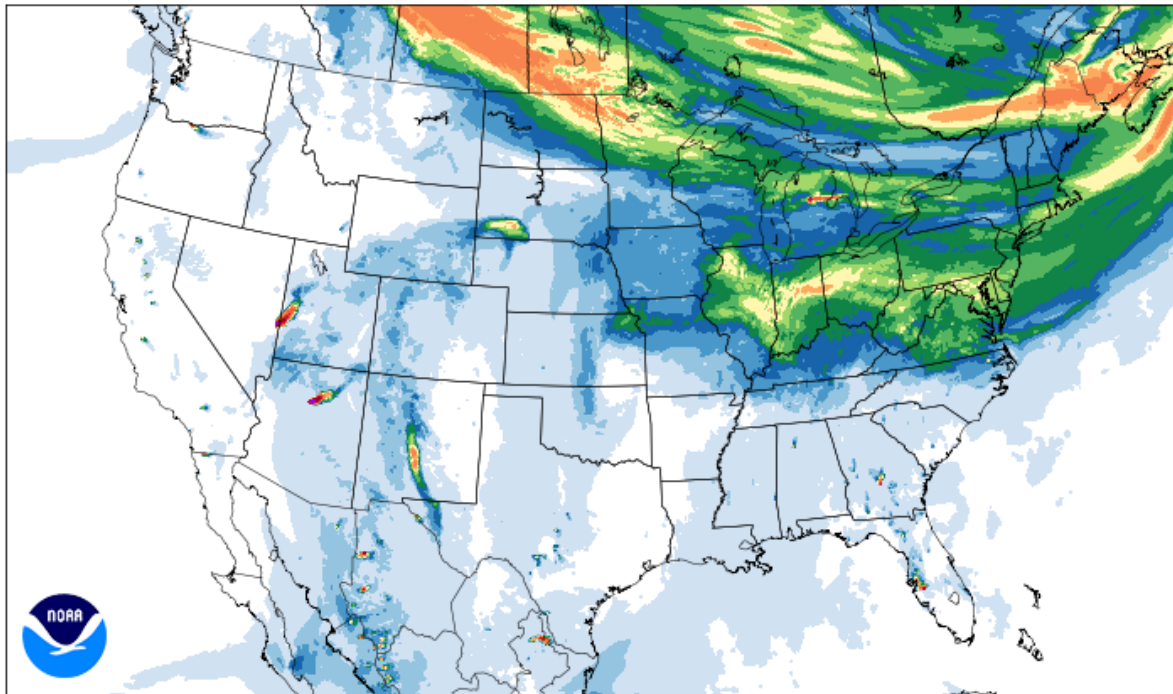


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250612 00 UTC

Fcst Hr: 21, Valid Time 20250612 21 UTC

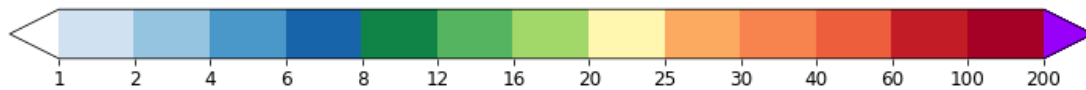
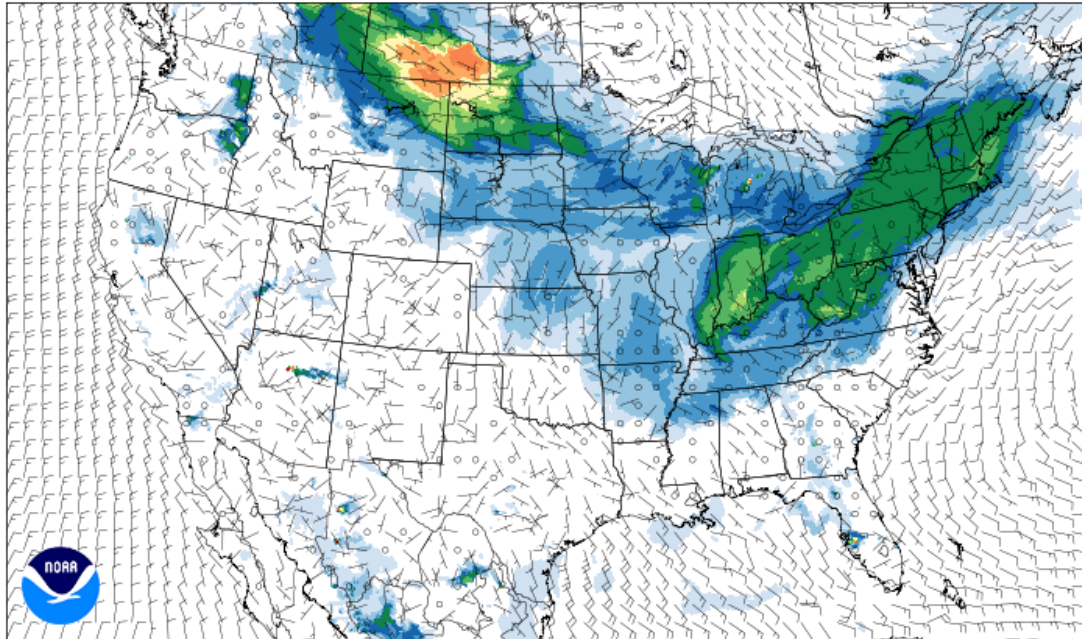


HRRR Smoke – Near Surface Smoke

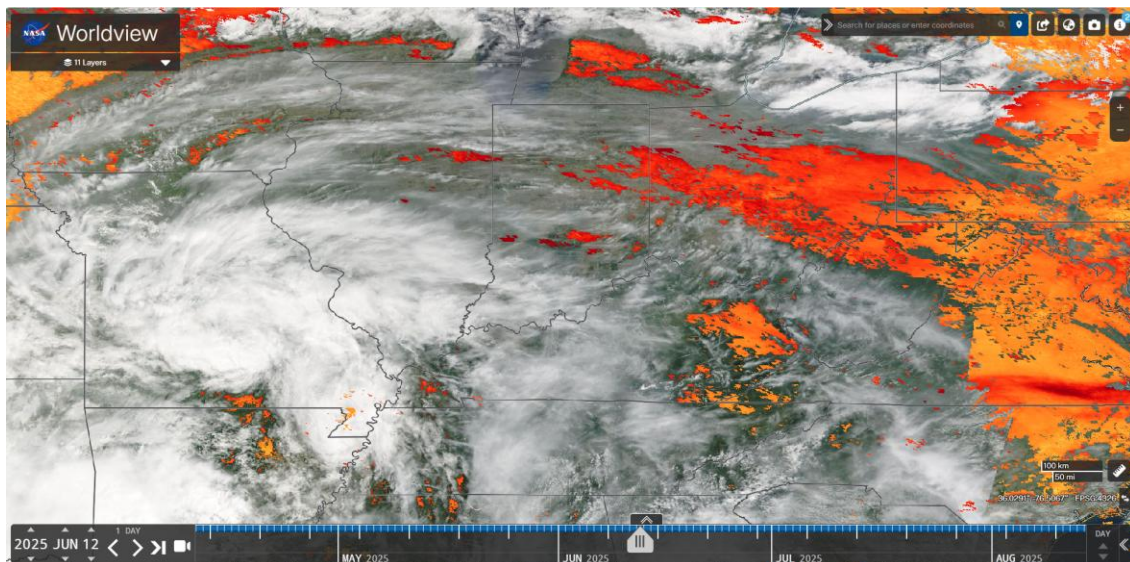
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250612 00 UTC

Fcst Hr: 10, Valid Time 20250612 10 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1430Z June 12, 2025

SMOKE:

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

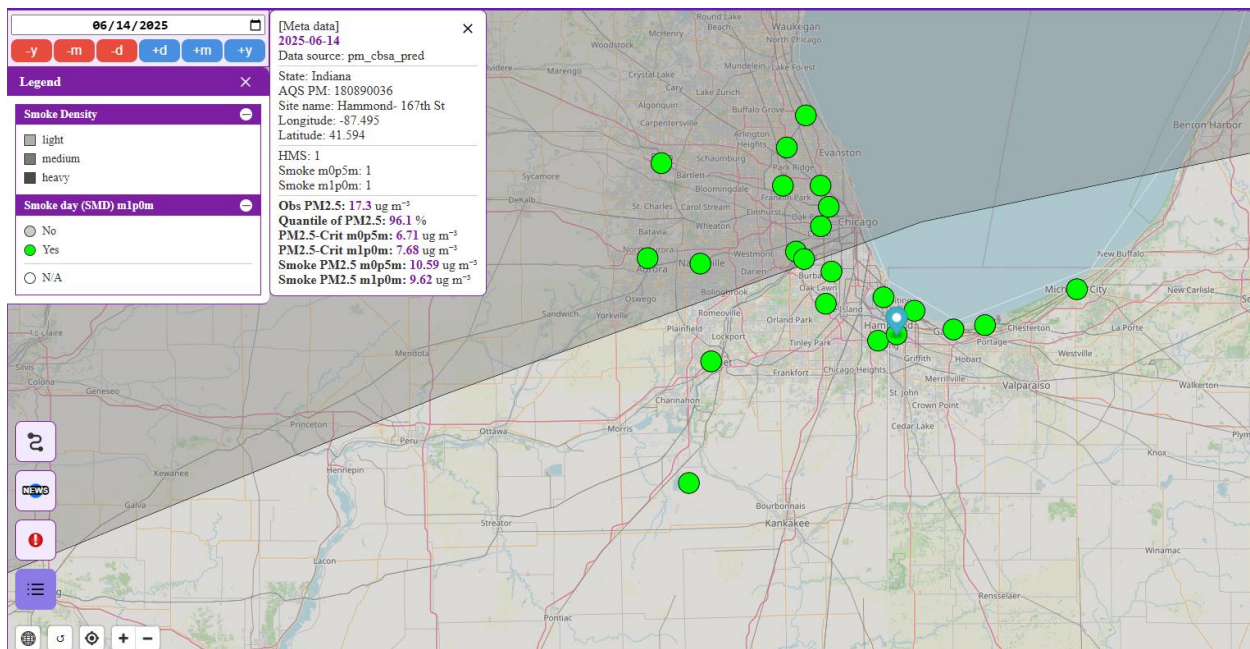
Wildfire activity throughout Western and Central Canada continues to produce light-to-moderate density smoke impacting a large area including Central Alaska, Northwestern and Central Canada, the Mid-Western and Eastern United States, and extending off the coast of New England and Newfoundland over the Northwestern Atlantic. Areas of higher smoke concentration are seen stretching from Northeastern British Columbia to Central Alberta and Southern Saskatchewan. A second large smoke plume also linked to the Canadian wildfires continues to disperse eastward over the Northern Atlantic.

June 14, 2025

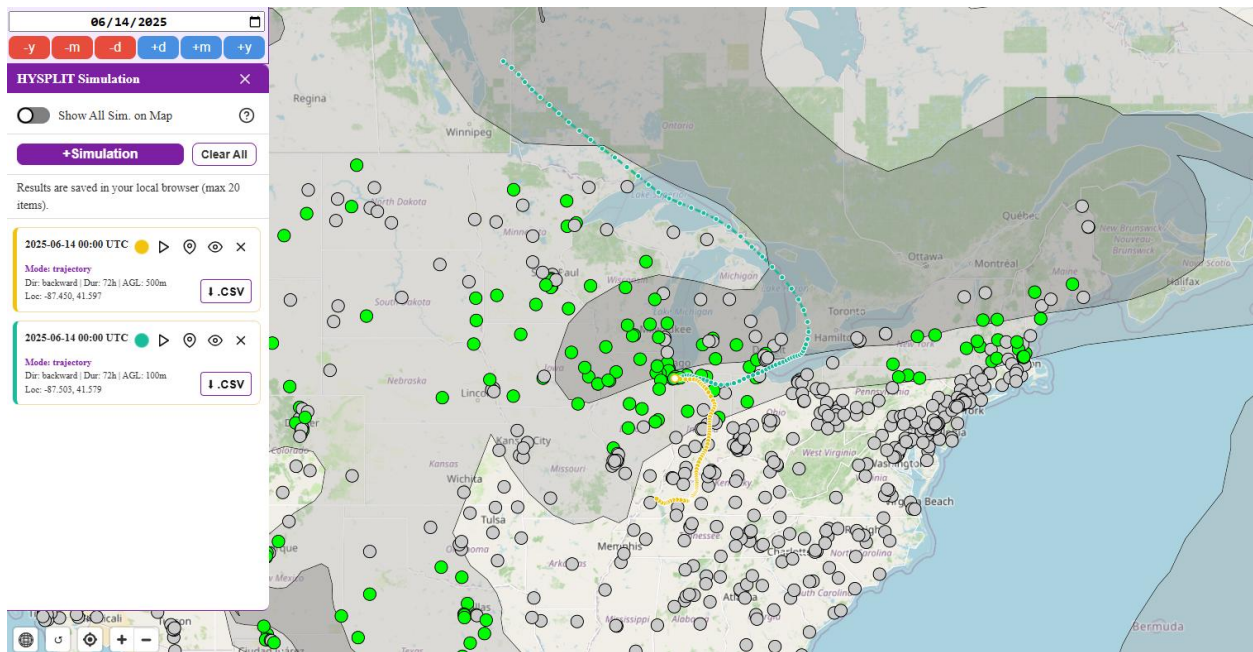
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Hammond-167th St	180890036	6/14/2025	17.4	16.2

Smokelyze Smoke Map with Estimated Smoke Concentration



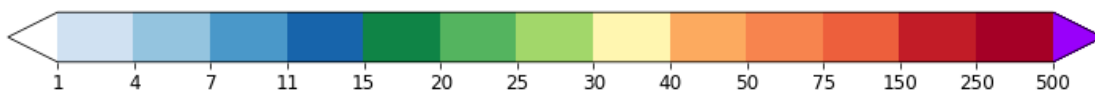
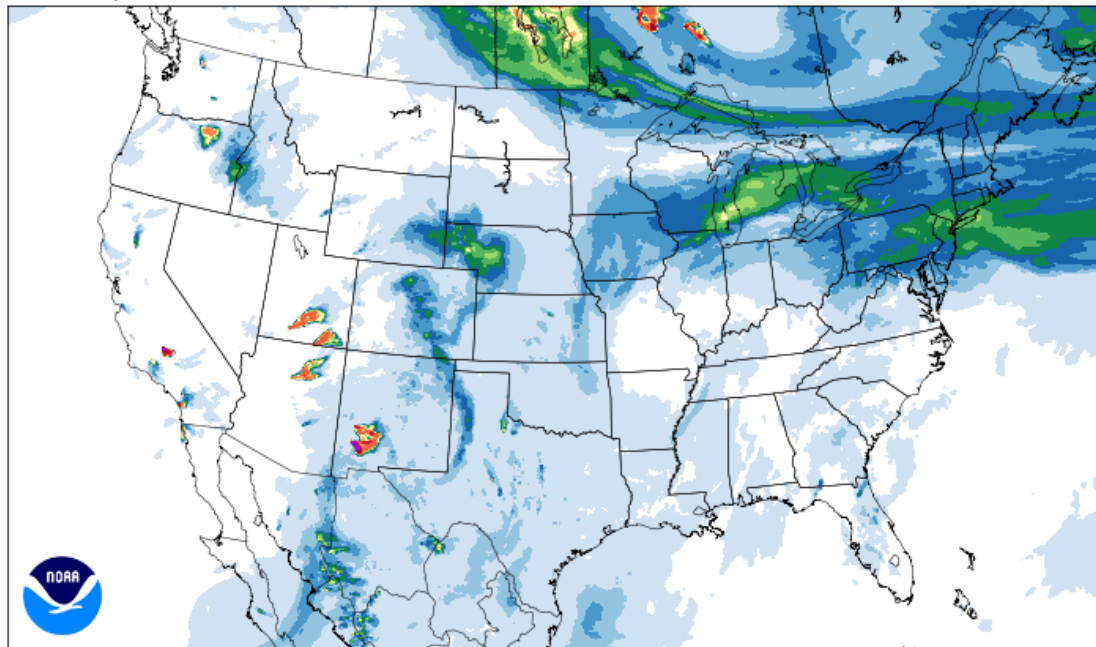
Backward Trajectories



HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

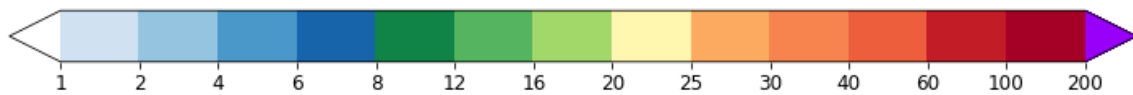
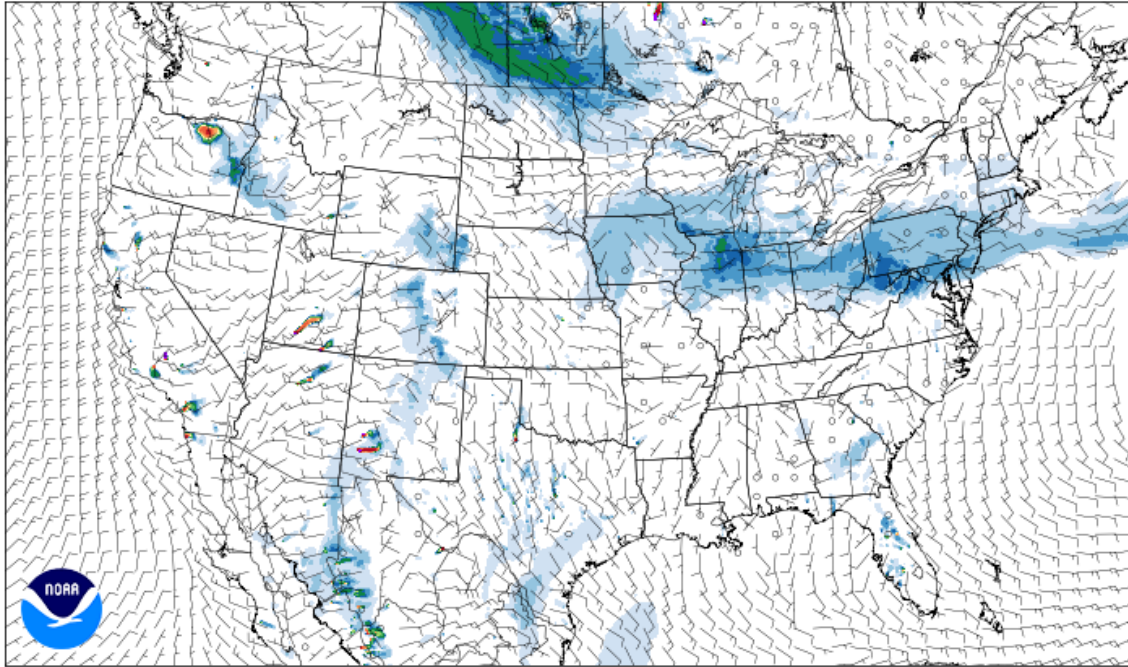
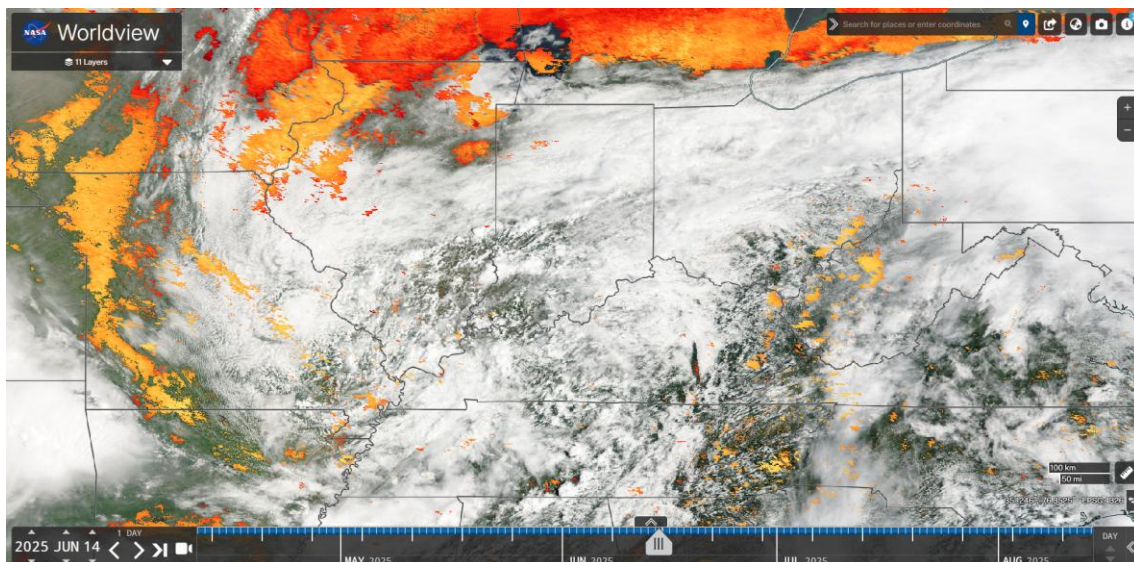
HRRR-NCEP: 20250614 00 UTC
Fcst Hr: 1, Valid Time 20250614 01 UTC



HRRR Smoke – Near Surface SmokeNear-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250614 00 UTC

Fcst Hr: 0, Valid Time 20250614 00 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1500Z June 14, 2025

SMOKE:

Northeast Pacific/Alaska/Canada/Northern and Central United
States/Atlantic Ocean...

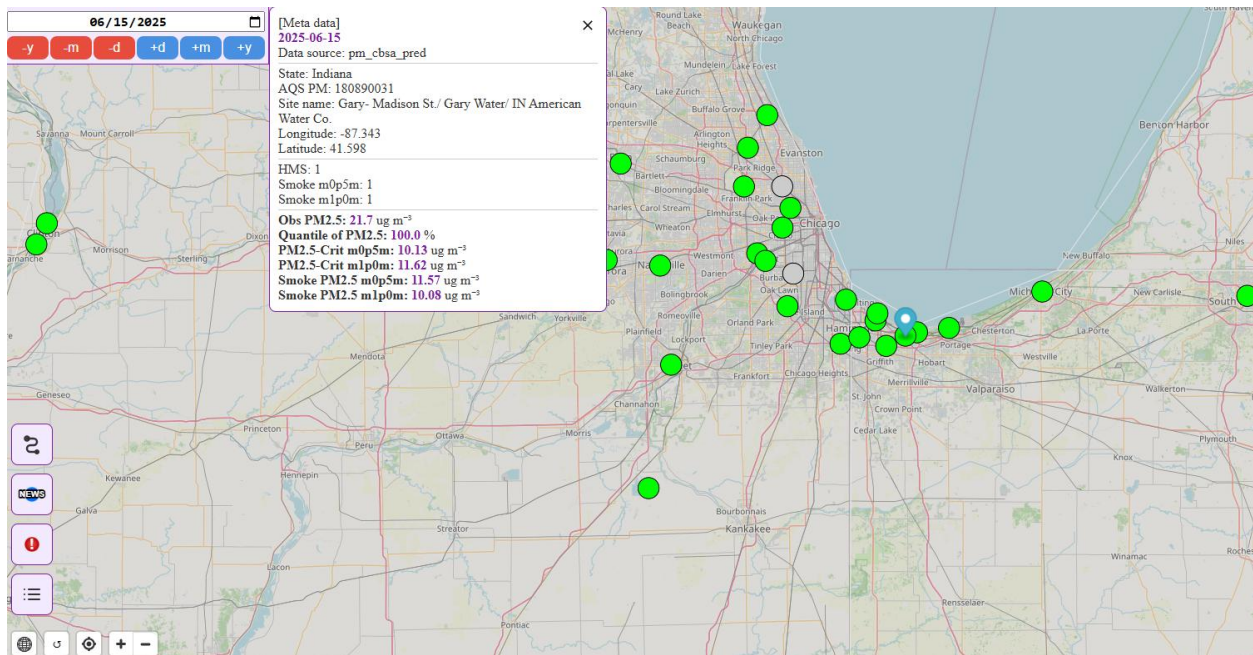
Wildfire activity around northeastern British Columbia, central Manitoba
and western Ontario continued to produce moderate to thick smoke coverage
across Canada and Alaska. A wider area of light to moderate smoke spread
south into the northeast Pacific and Northwestern U.S., and along the
east side of the Rockies into Texas. The smoke continued east across
the northern Atlantic toward Europe.

June 15, 2025

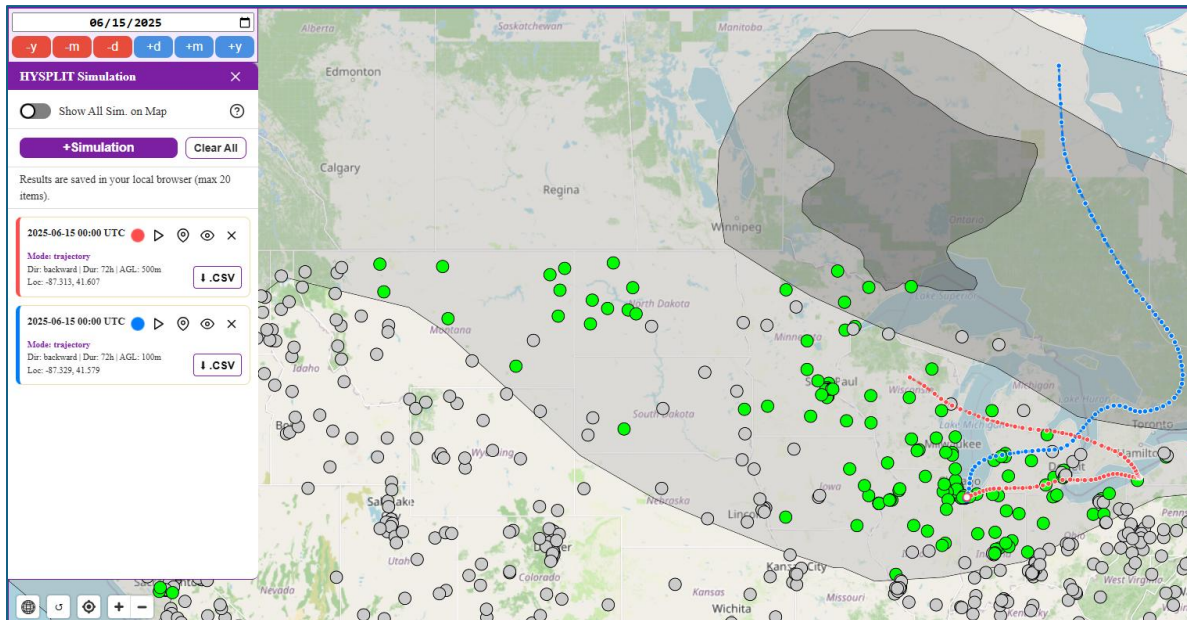
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Gary - Madison St	180890031	6/15/2025	21.7	16

Smokelyze Smoke Map with Estimated Smoke Concentration



Backward Trajectories

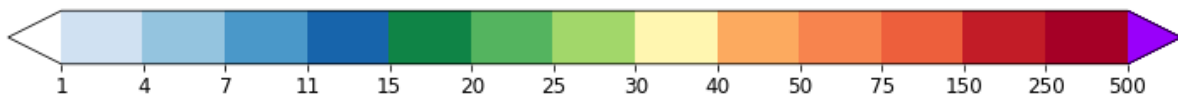
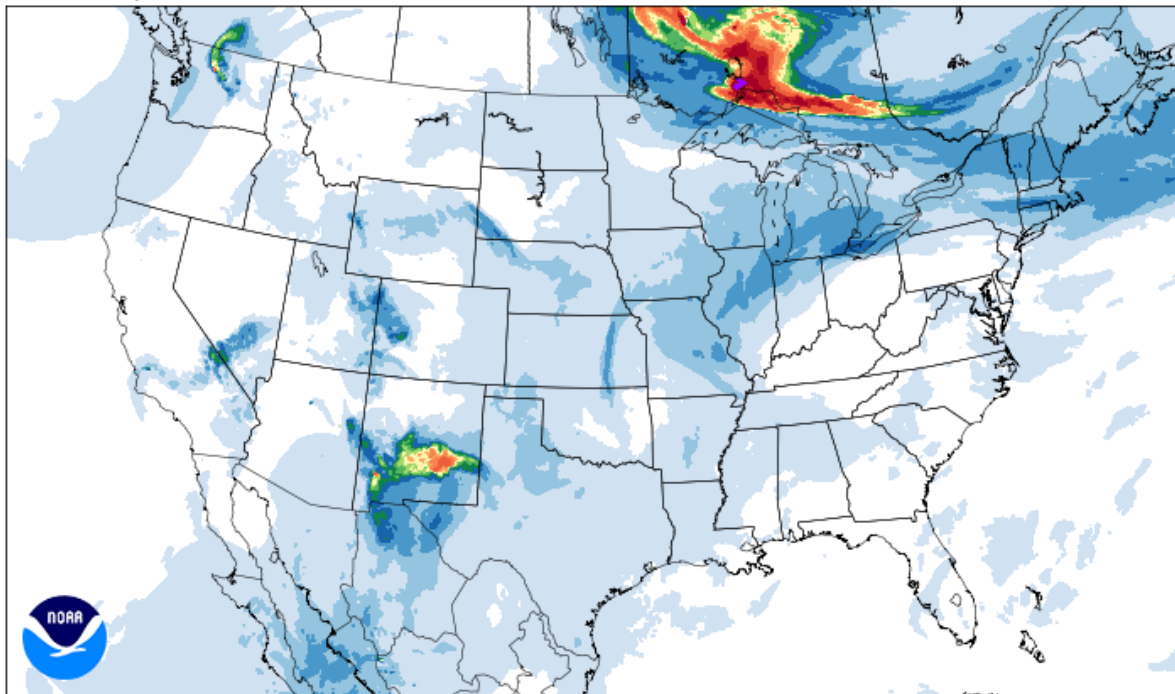


HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m^2 , shaded)

HRRR-NCEP: 20250615 00 UTC

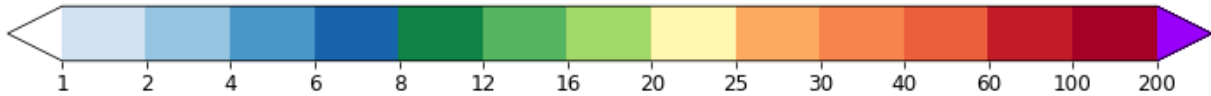
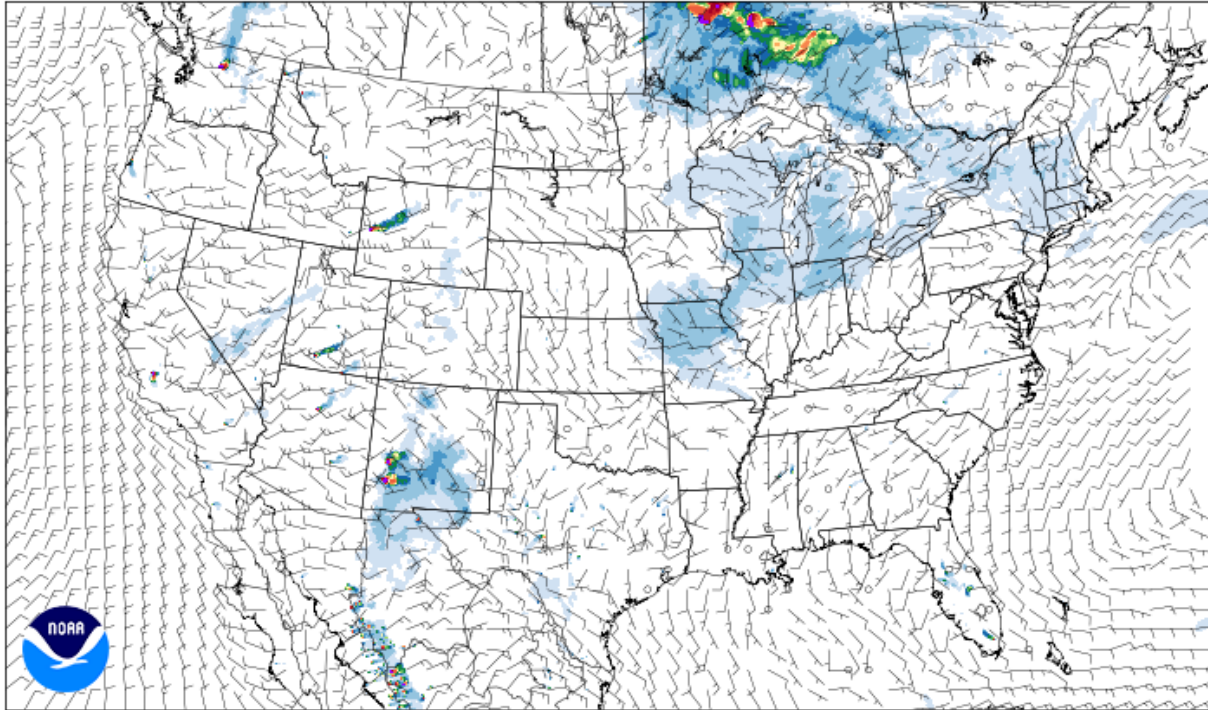
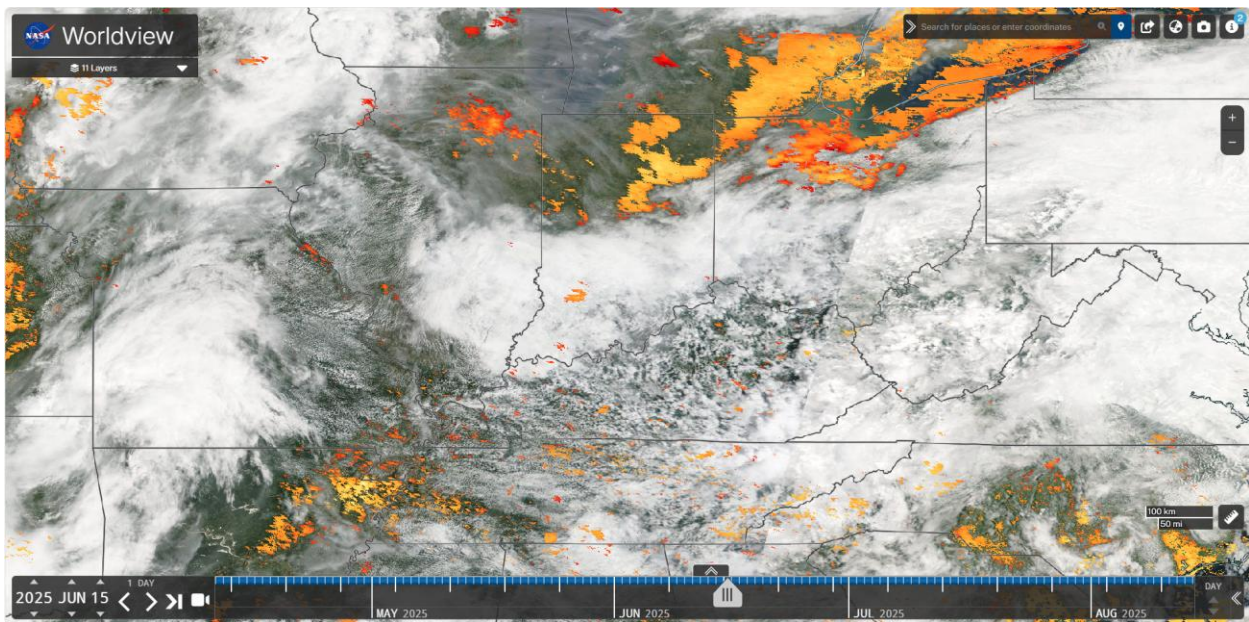
Fcst Hr: 13, Valid Time 20250615 13 UTC



HRRR Smoke – Near Surface SmokeNear-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250615 00 UTC

Fcst Hr: 23, Valid Time 20250615 23 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1652Z June 15, 2025

SMOKE:

Alaska/Pacific Ocean/Canada/Northern and Central United States/Atlantic
Ocean...

Wildfire activity across northeastern British Columbia, southwestern
Northwest Territories, northwestern Alberta, and western Ontario
continued to generate moderate to thick smoke, which spread from Alaska,
northeastern British Columbia, and Yukon to Quebec and into the North
Atlantic Ocean. Lighter-density smoke blanketed portions of Alaska and
the Pacific Ocean off the western coastline; northwestern, central,
and eastern Canada; the Midwestern U.S.; and the Upper Great Lakes,
moving eastward over the Atlantic toward Europe. Cloud cover over parts
of northwestern and central Canada limited smoke detection in those
areas in satellite imagery.