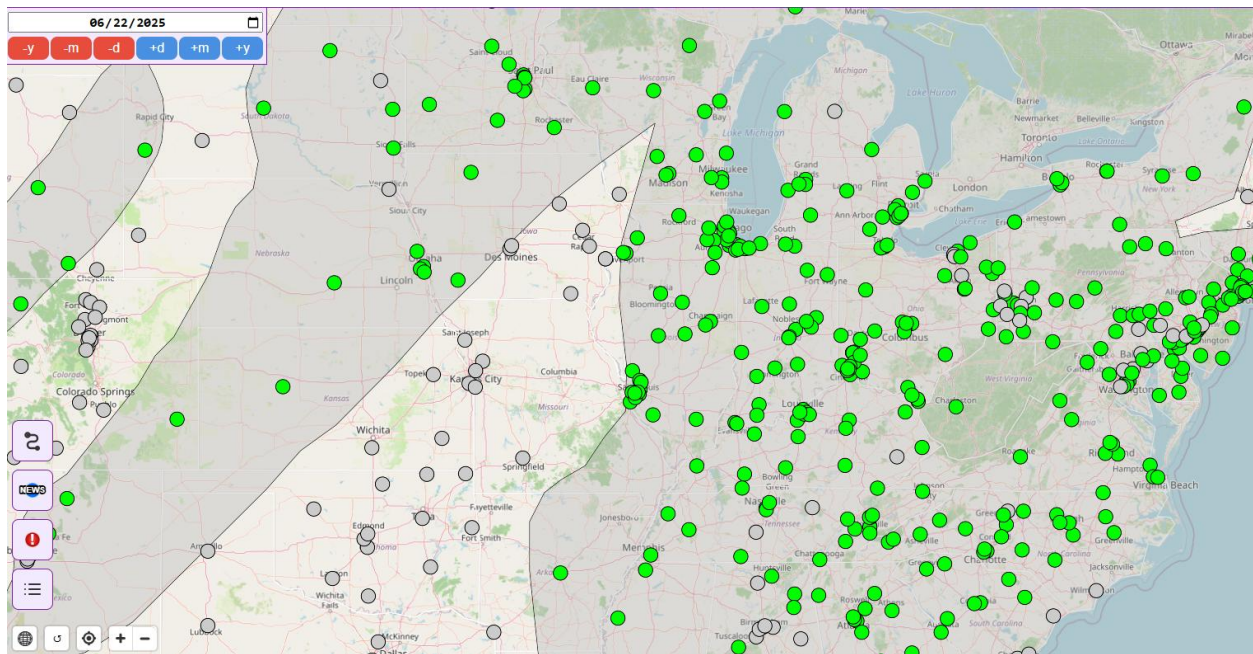


June 22, 2025

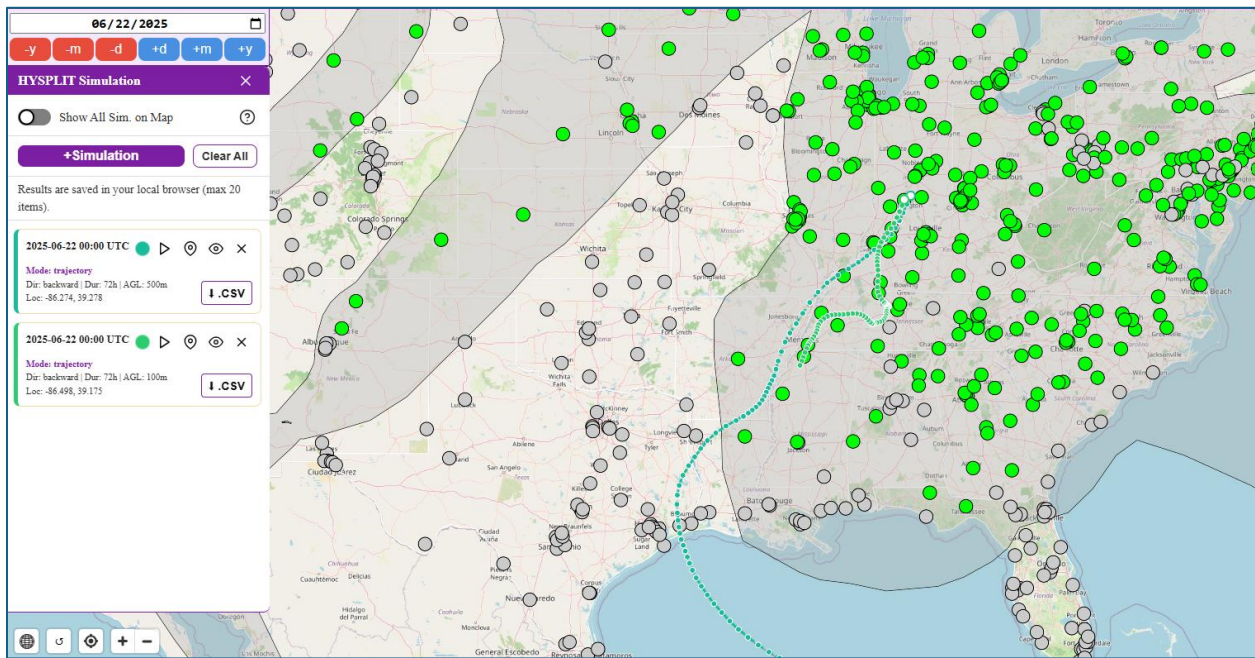
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

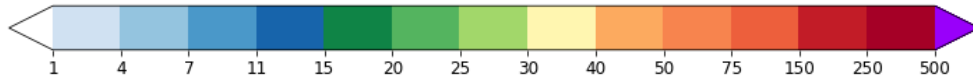
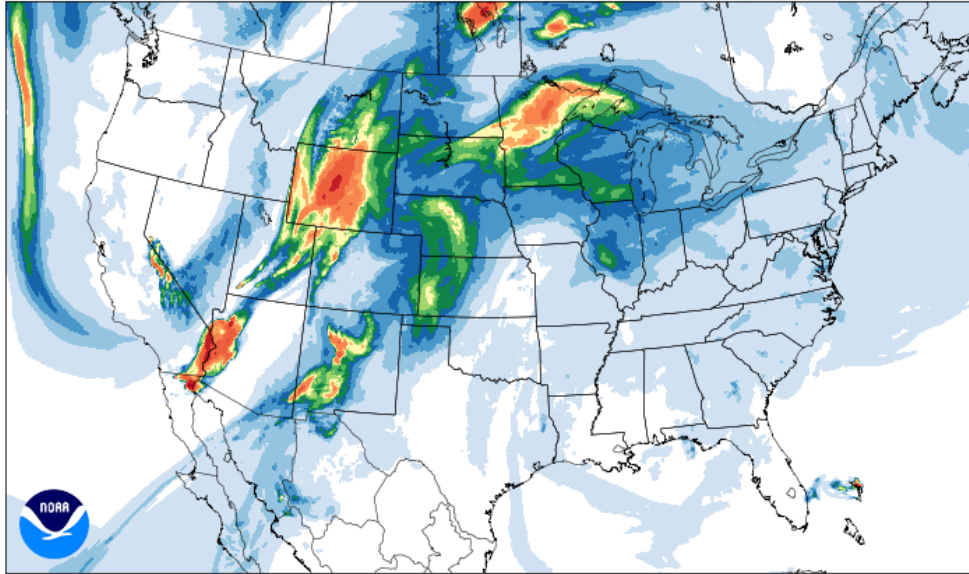
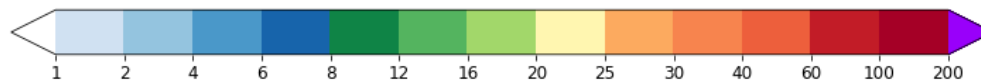
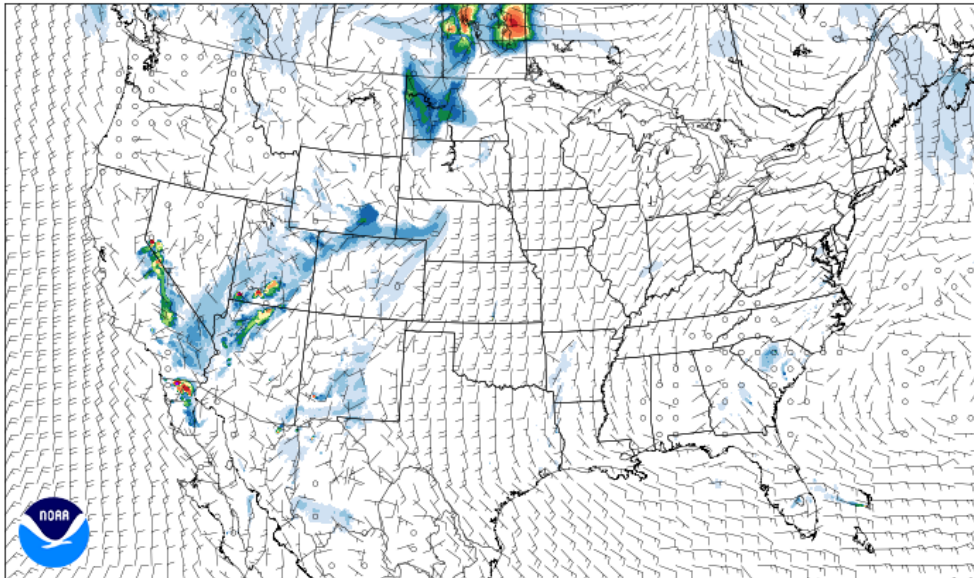
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Fishers	180570007	6/22/2025	15.9	13.8
Bloomington - Binford	181050003	6/22/2025	15.4	12.8
Dale-N Wallace St	181470011	6/22/2025	14.2	13

Smokelyze Smoke Map with Estimated Smoke Concentration

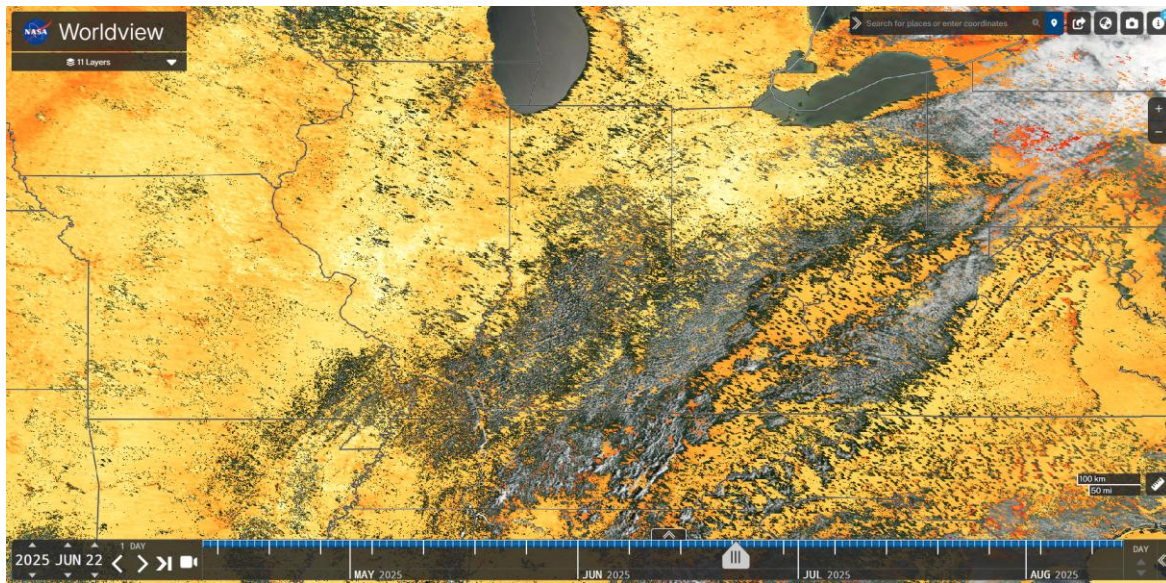
Monitor name	AQS	Date	Daily average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Fishers	180570007	6/22/2025	15.9	7.6
Bloomington - Binford	181050003	6/22/2025	15.4	7.6
Dale-N Wallace St	181470011	6/22/2025	14.2	2.8

Backward Trajectories



HRRR Smoke - Vertically Integrated SmokeVertically Integrated Smoke (mg/m^2 , shaded)HRRR-NCEP: 20250622 00 UTC
Fcst Hr: 6, Valid Time 20250622 06 UTC**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)HRRR-NCEP: 20250622 00 UTC
Fcst Hr: 12, Valid Time 20250622 12 UTC

Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1500Z June 22, 2025

SMOKE:

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

Widespread wildfire activity across Alaska, the Yukon, and central Canada continued to generate smoke which spread over large areas of the Northern Hemisphere. Thick to moderate density smoke plumes were seen moving east from northern British Columbia to western Ontario.

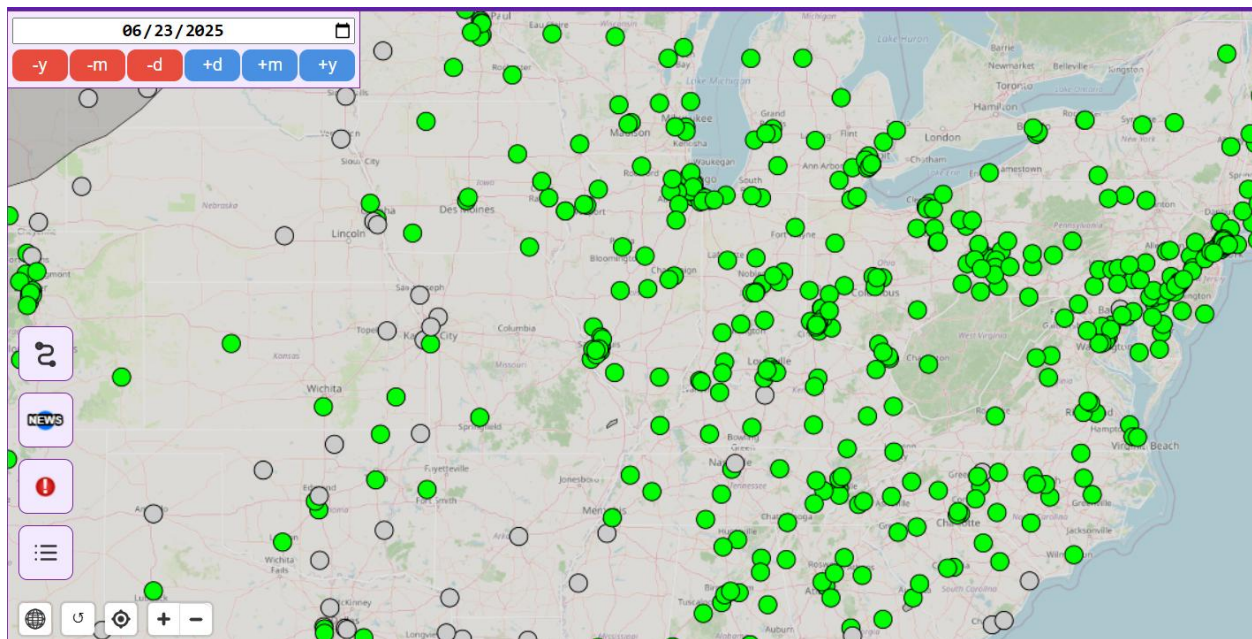
Southwestern United States/Mountain States...

Fires in the southwestern United States and Rocky Mountains were also seen producing light plumes which moved northeast and merged with the smoke in Canada. Smoke continued east across the Eastern States and into the Atlantic, in part circulating south and returning towards the southeastern U.S.

June 23, 2025

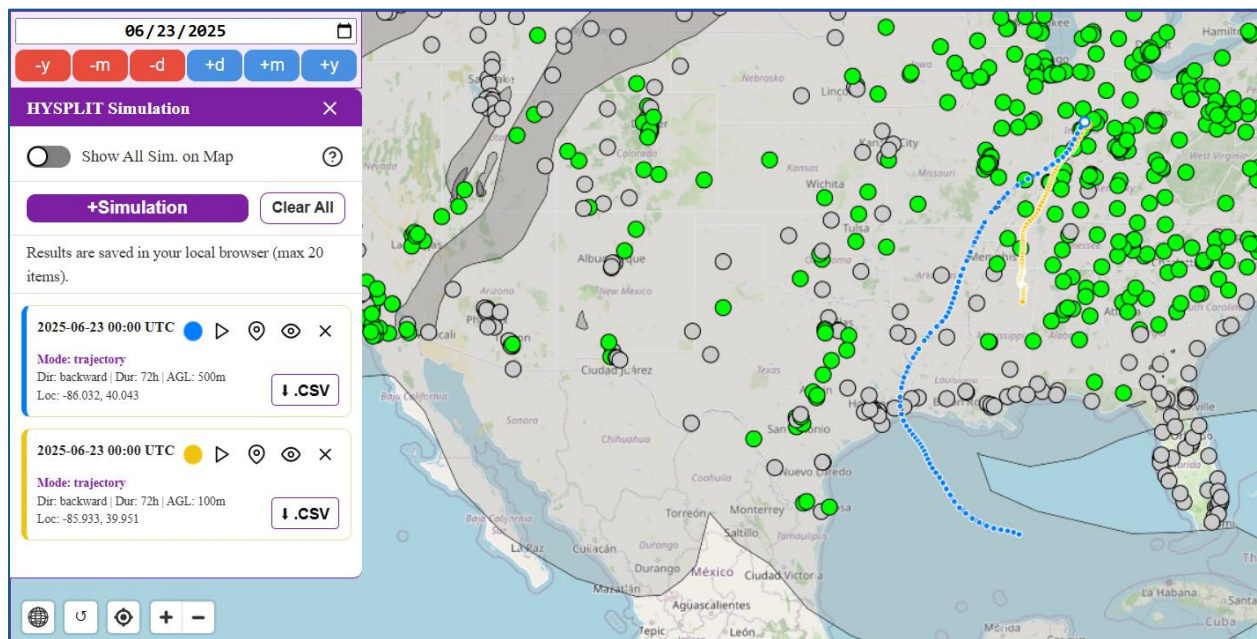
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Columbus - Rocky Ford Drive	180050008	6/23/2025	16.5	13.4
Muncie - Central HS	180350006	6/23/2025	15.8	13.2
Fishers	180570007	6/23/2025	18.1	13.8
Mechanicsburg	180650003	6/23/2025	15.5	14.8
Bloomington - Binford	181050003	6/23/2025	16.9	12.8
Dale-N Wallace St	181470011	6/23/2025	14.2	13
Lafayette - Greenbush St	181570008	6/23/2025	17.3	15.1

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Columbus - Rocky Ford Drive	180050008	6/23/2025	16.5	7.8
Muncie - Central HS	180350006	6/23/2025	15.8	7.5
Fishers	180570007	6/23/2025	18.1	9.8
Mechanicsburg	180650003	6/23/2025	15.5	7.3
Bloomington - Binford	181050003	6/23/2025	16.9	9.1
Dale-N Wallace St	181470011	6/23/2025	14.2	2.8
Lafayette - Greenbush St	181570008	6/23/2025	17.3	9.6

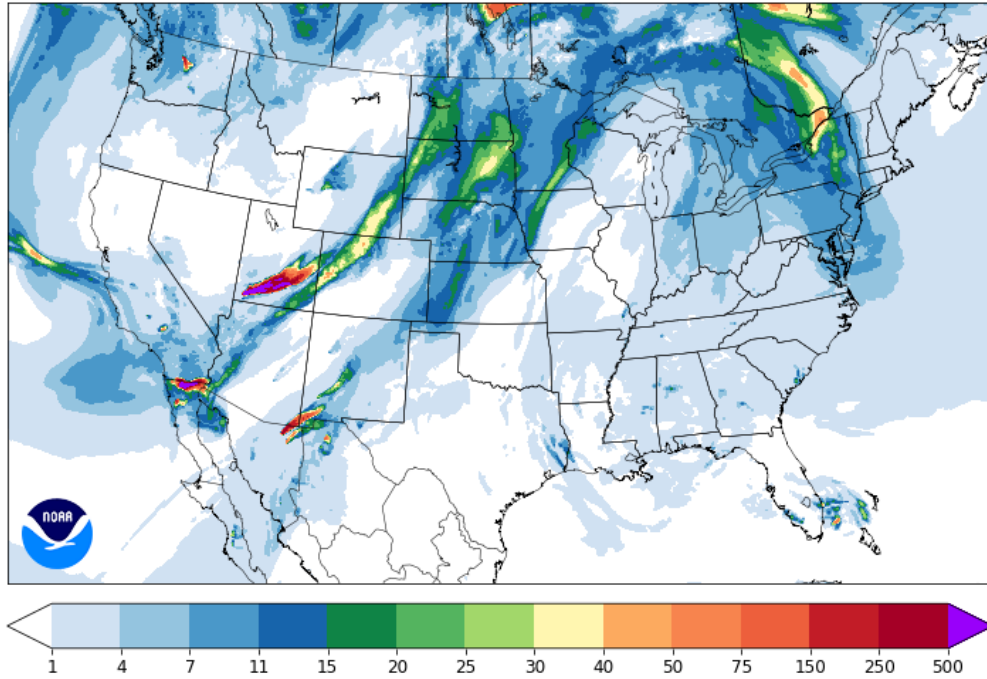
Backward Trajectories



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

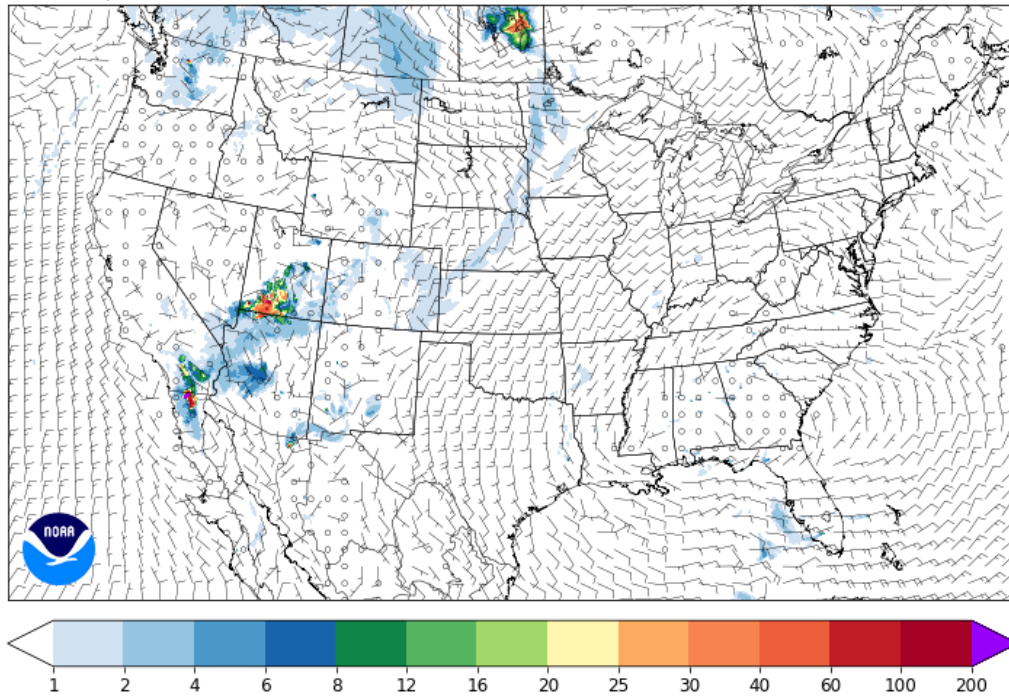
HRRR-NCEP: 20250623 00 UTC

Fcst Hr: 1, Valid Time 20250623 01 UTC

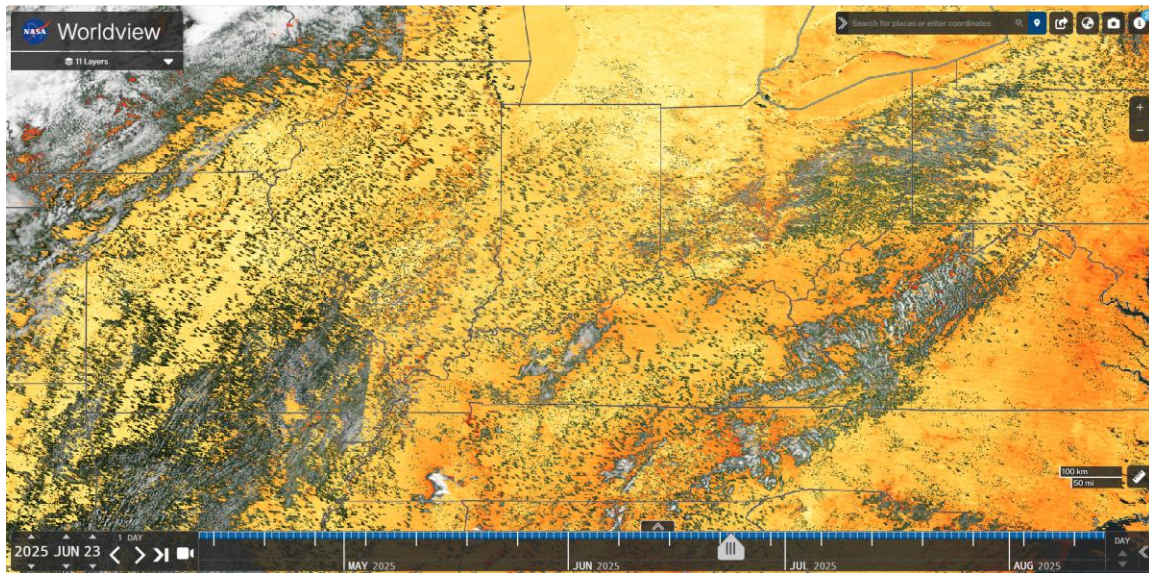
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250623 06 UTC

Fcst Hr: 8, Valid Time 20250623 14 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1530Z June 23, 2025

SMOKE:

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

Wildfire activity across Alaska and northwestern Canada continued to generate smoke which spread over North America and the Atlantic. Thick to moderate density smoke was seen moving east from Alaska and the Yukon, British Columbia and Northwestern Territories into Alberta and Saskatchewan, and south into the western states into California. Light density smoke in the central and eastern U.S. was carried northeast, merging with smoke from Alaska and Canadian fires.

Northern Mexico/Southwestern United States/Rocky Mountains...

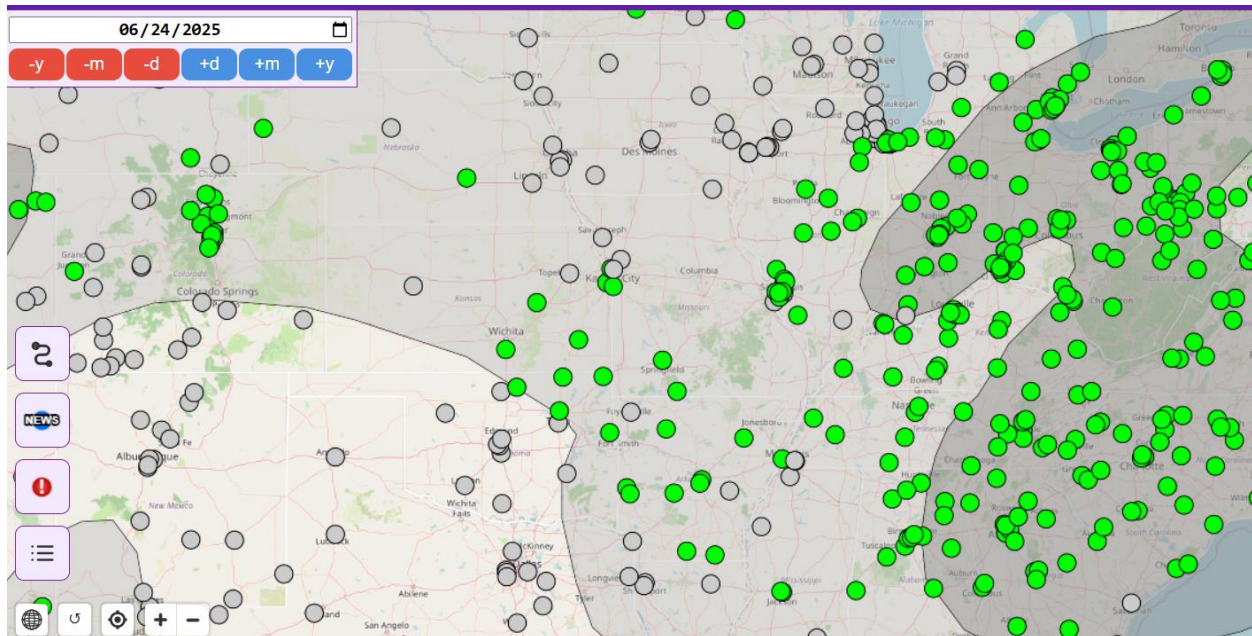
Fires in northern Baja California, New Mexico, and Utah produced moderate to thick smoke which moved northeast joining with smoke from Alaska and Canada.

June 24, 2025

PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

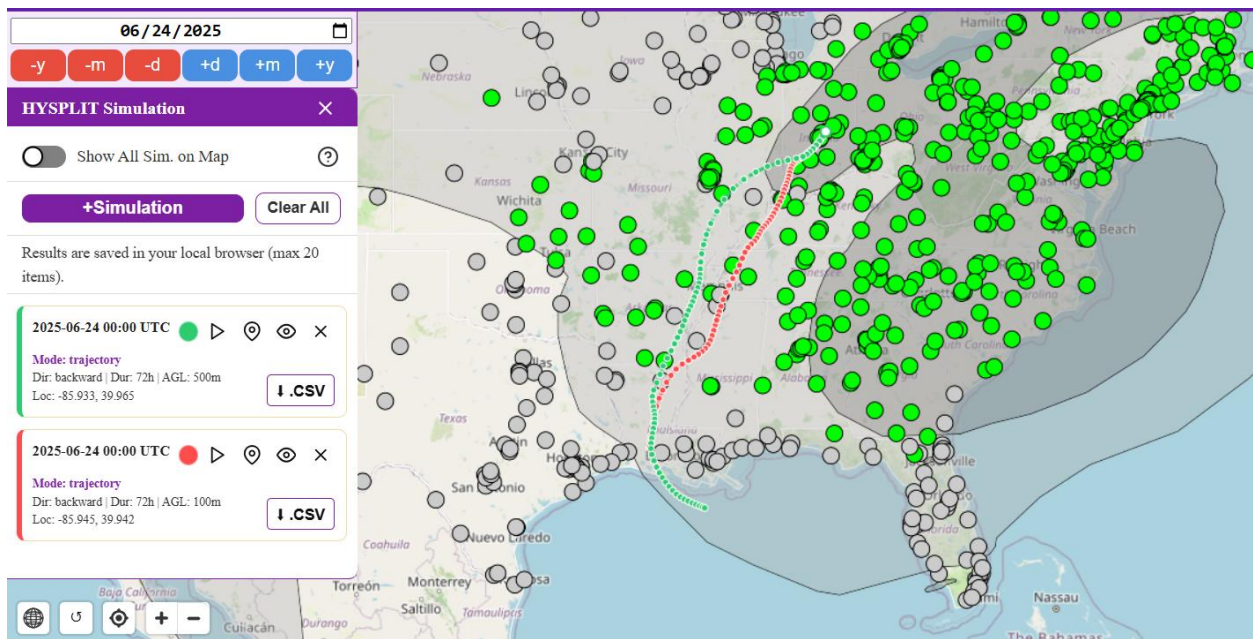
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Columbus - Rocky Ford Drive	180050008	6/24/2025	16.0	13.4
Muncie - Central HS	180350006	6/24/2025	14.7	13.2
Fishers	180570007	6/24/2025	17.6	13.8
Carmel - Hazel Dell Parkway	180570008	6/24/2025	16.9	16.2
Bloomington - Binford	181050003	6/24/2025	13.4	12.8

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	6/24/2025	16.0	7.3
Muncie - Central HS	180350006	6/24/2025	14.7	6.6
Fishers	180570007	6/24/2025	17.6	9.3
Carmel - Hazel Dell Parkway	180570008	6/24/2025	16.9	7.6
Bloomington - Binford	181050003	6/24/2025	13.4	6.0

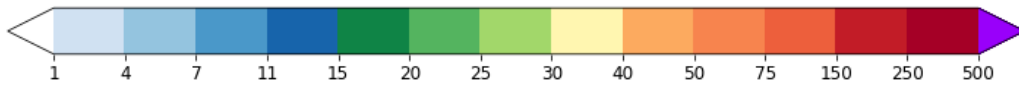
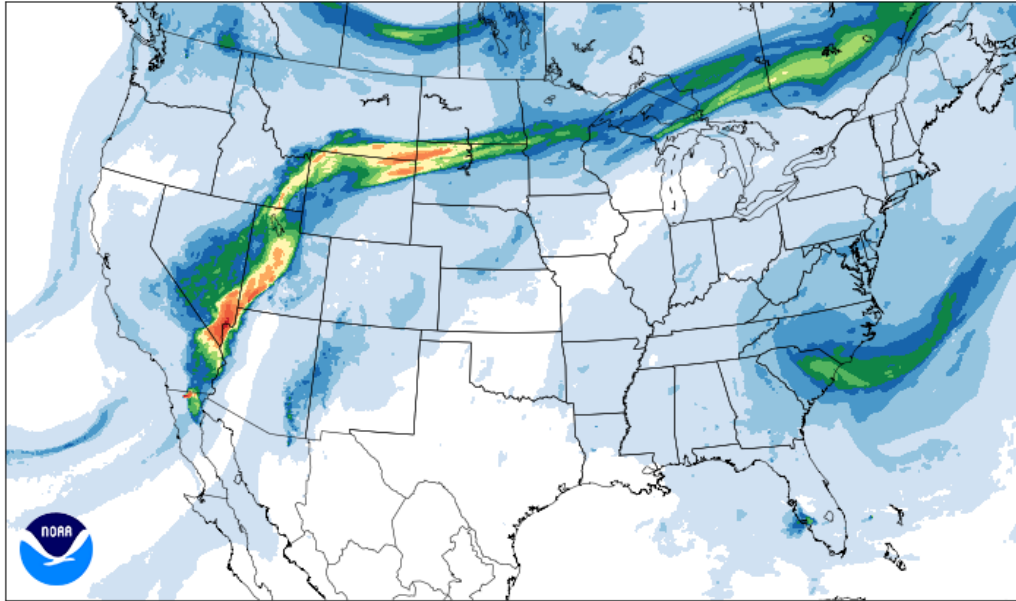
Backward Trajectories



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

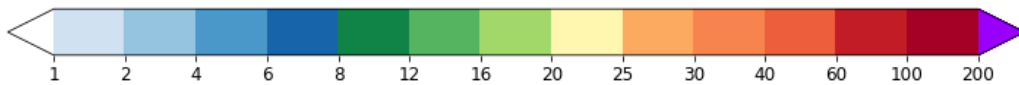
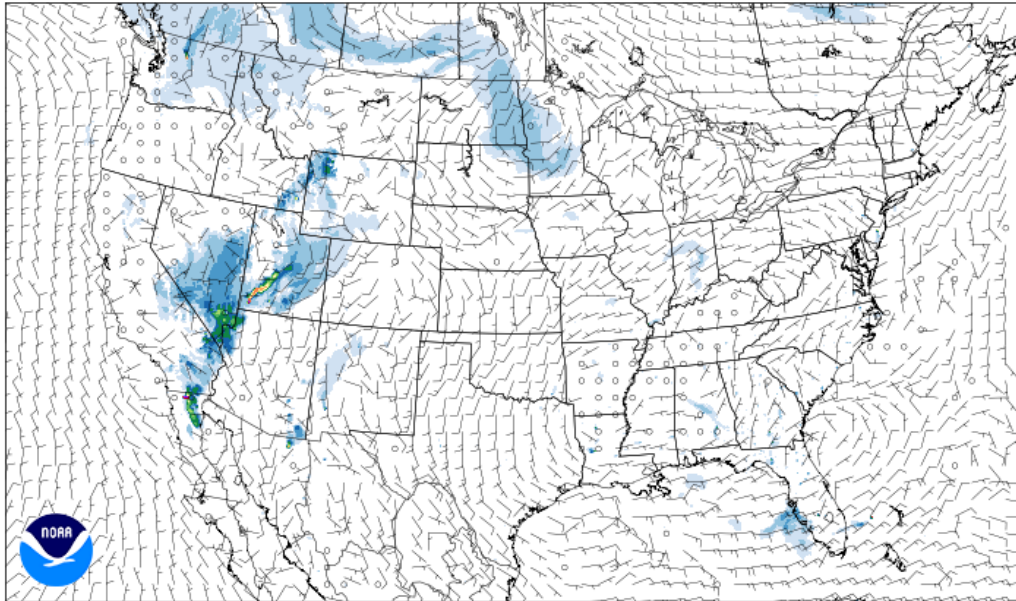
HRRR-NCEP: 20250624 00 UTC

Fcst Hr: 15, Valid Time 20250624 15 UTC

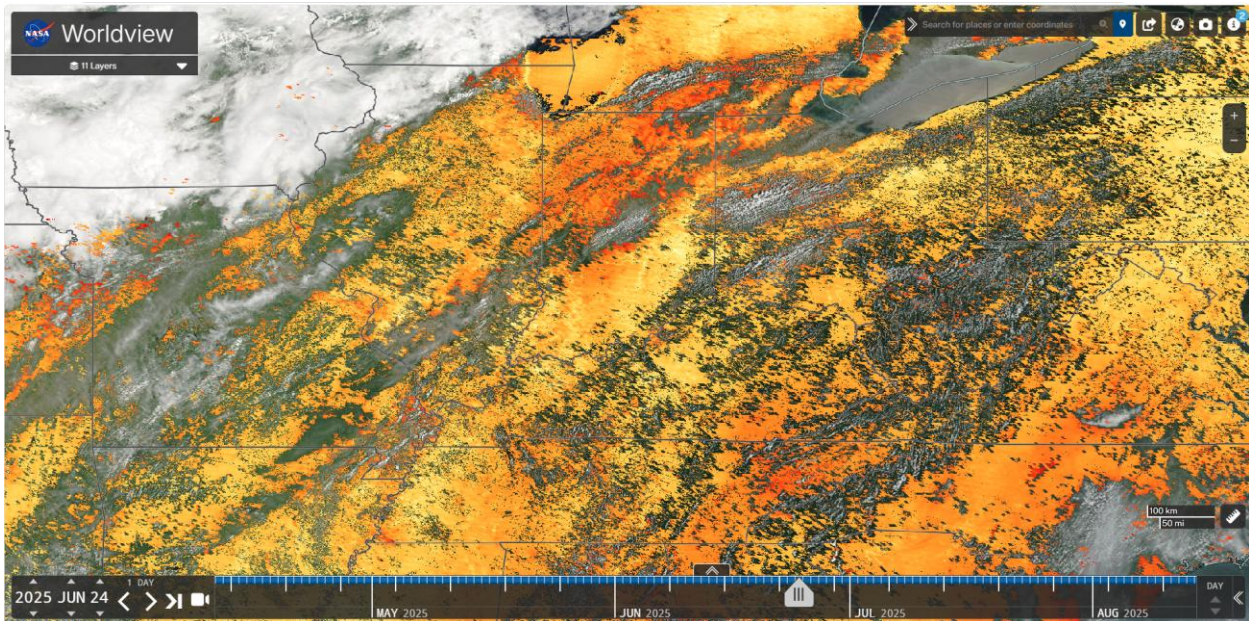
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250624 00 UTC

Fcst Hr: 16, Valid Time 20250624 16 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 0100Z June 24, 2025

SMOKE:

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

Wildfire activity across Alaska and northwestern Canada continued to generate moderate to thick smoke that spans across Alaska, much of Western and Northern Canada, and as far out as the Davis Strait and Greenland. The thickest smoke is emanating from the wildfire activity near the Northwest Territory/BC/Alberta triple point, from which the smoke is moving anywhere from northwest to east-southeast. The main area of thicker smoke resides over southern Yukon into central and northern Alaska, from where it is moving out over the Chukchi Sea. It is also along this corridor where a relatively high density of wildfires exist. Some of the remnant light smoke diving down from the Arctic over Nunavut,

Hudson Bay, and northern Quebec was observed moving east-southeastward over the Maritime Provinces and the Davis Strait, with it likely that some is drawn northward from there over Greenland.

Northern Mexico/Southwestern United States/Rocky Mountains...

Fires across the western CONUS and extreme northern Mexico are aiding in producing smoke plumes (along with remnant smoke from these fires from the previous couple days) that are moving north to northeastward, with smoke from these fires reaching as far as northern Minnesota, central Saskatchewan, and central British Columbia. The remnant smoke from these fires may be merging with remnant smoke from Alaska and western Canada.

Mid-Mississippi Valley...

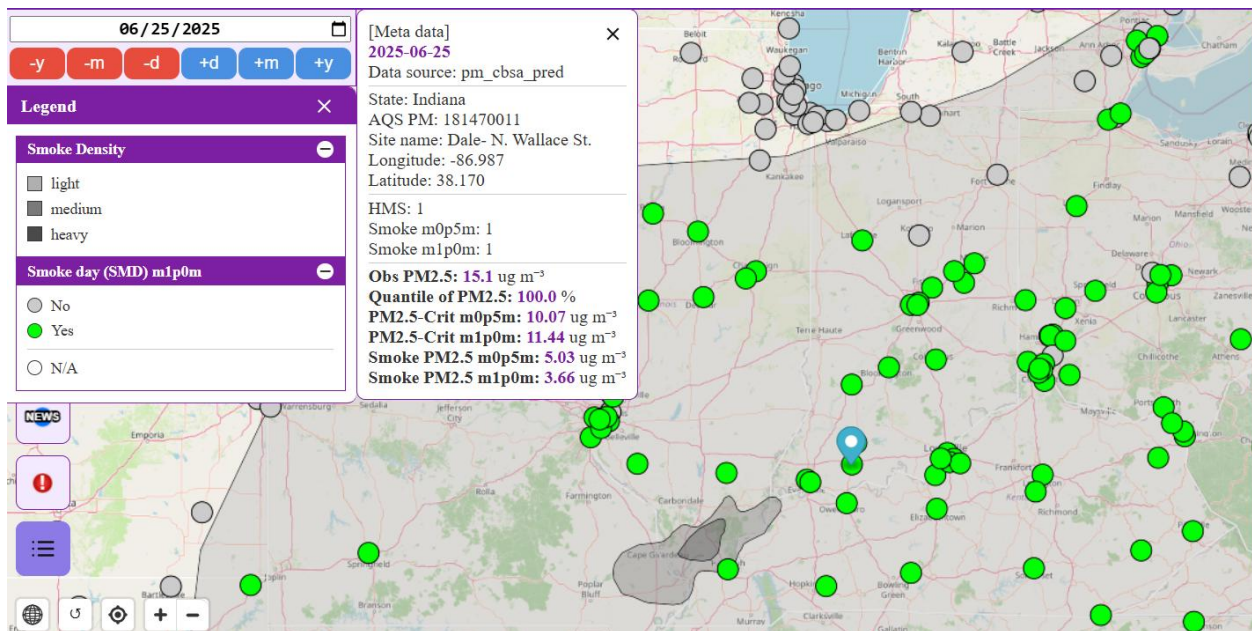
Scattered to widespread agricultural burning was observed from the Missouri Bootheel south-southwestward into northeastern Arkansas. The light smoke from these fires was seen moving north-northeastward into southern Illinois, where one or two agricultural burns were also noted with light smoke moving north-northwestward.

June 25, 2025

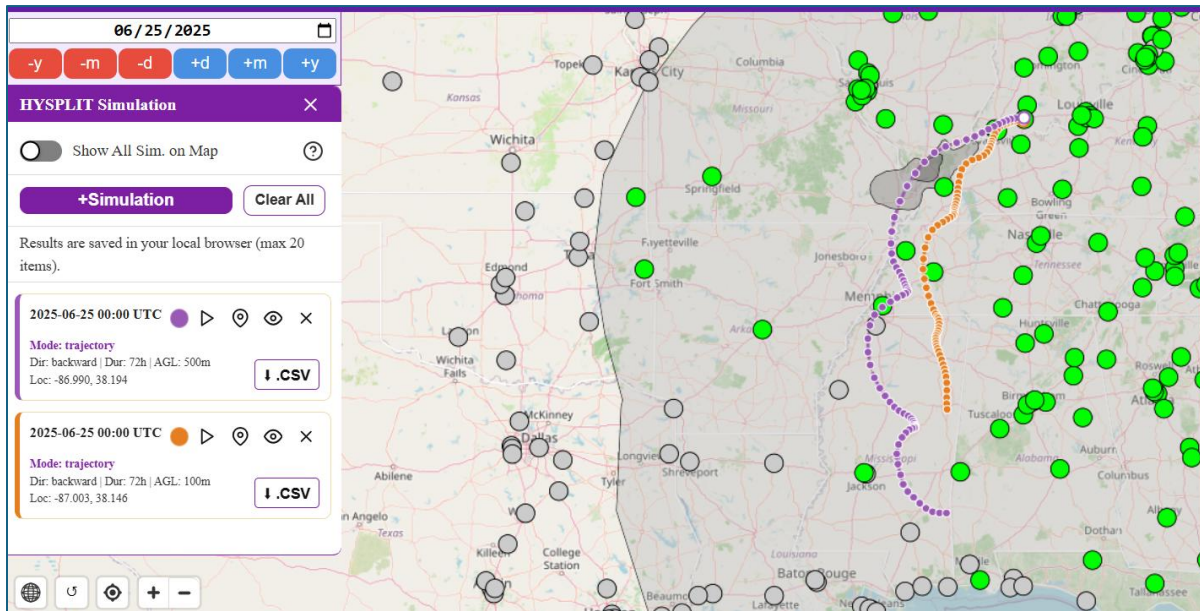
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Dale-N Wallace St	181470011	6/25/2025	15.1	13

Smokelyze Smoke Map with Estimated Smoke Concentration



Backward Trajectories

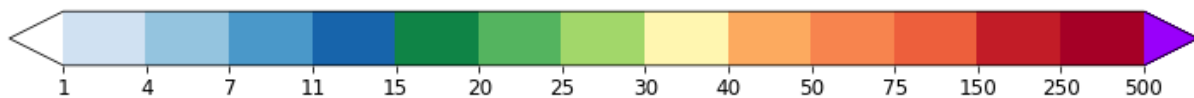
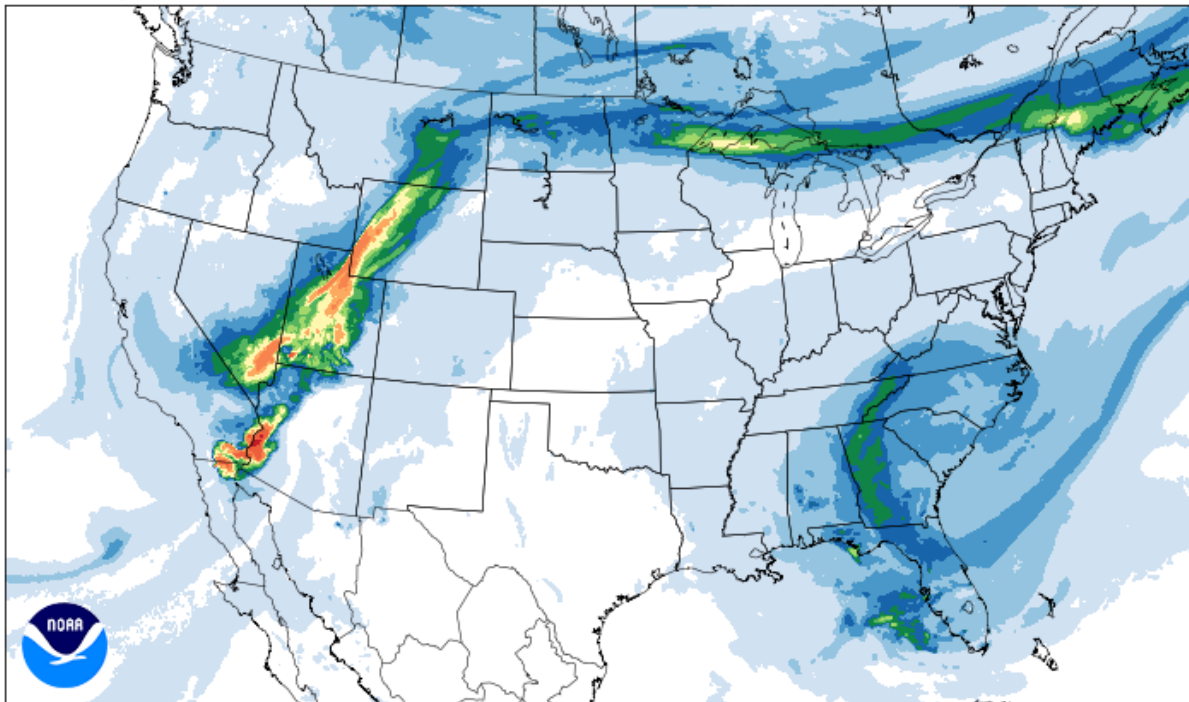


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250625 00 UTC

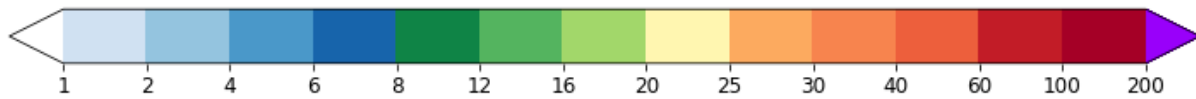
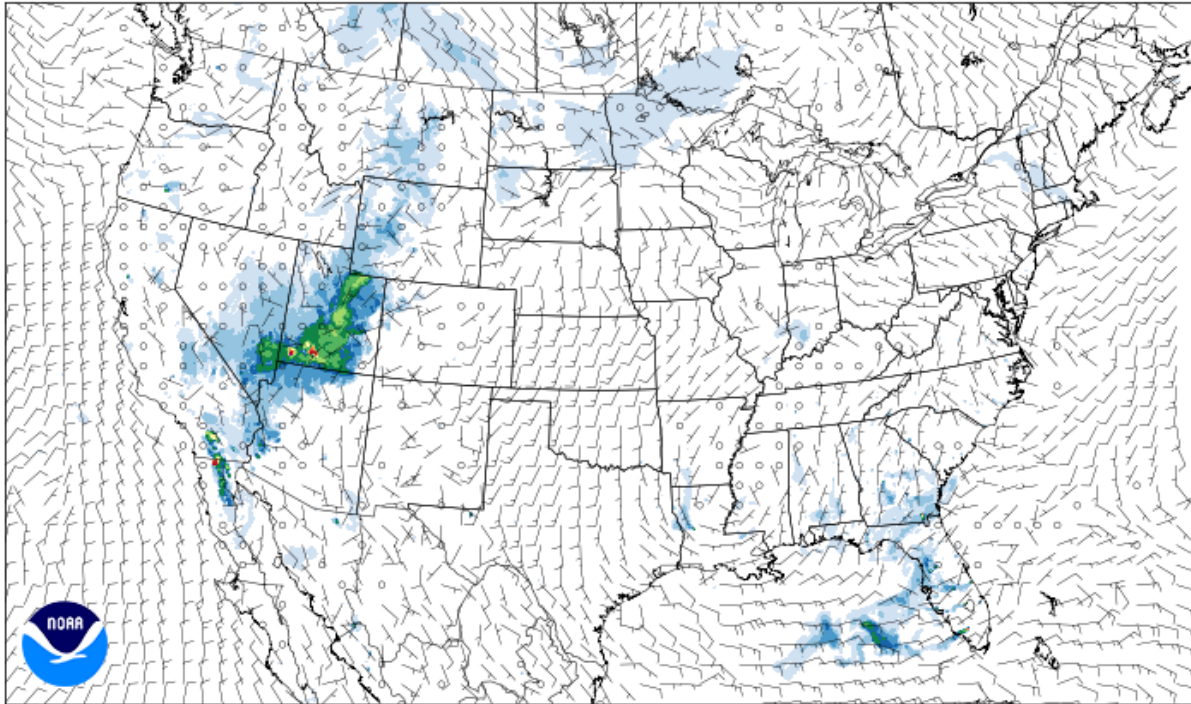
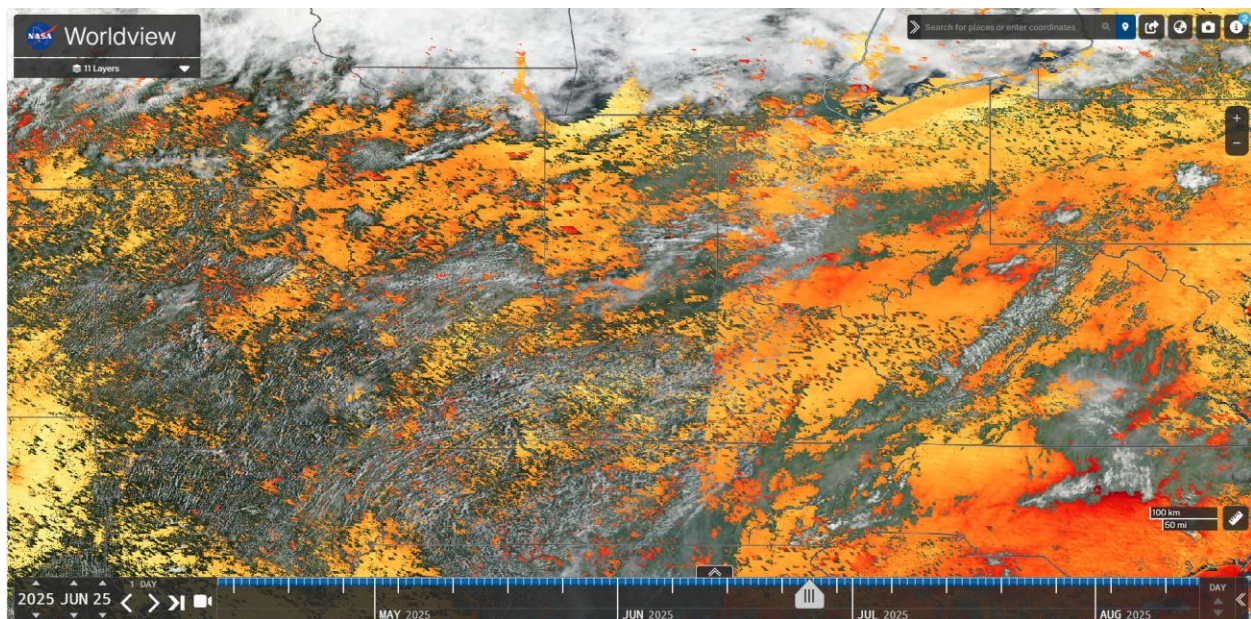
Fcst Hr: 9, Valid Time 20250625 09 UTC



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

HRRR-NCEP: 20250625 00 UTC

Fcst Hr: 15, Valid Time 20250625 15 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1520Z June 25, 2025

SMOKE:

Alaska/Canada/Western and Eastern United States/Atlantic Ocean/Northwest
Territories...

Wildfire activity across Alaska and northwestern Canada continued to generate light to medium density smoke, which spread from Alaska and western Canada across the continent into the Atlantic. Smoke moved offshore and south, with some circling back toward the east coast of the United States and accumulating across the southeast. The heaviest density smoke was observed drifting across the Northwest Territories from the wildfires in the northeastern corner of British Columbia.

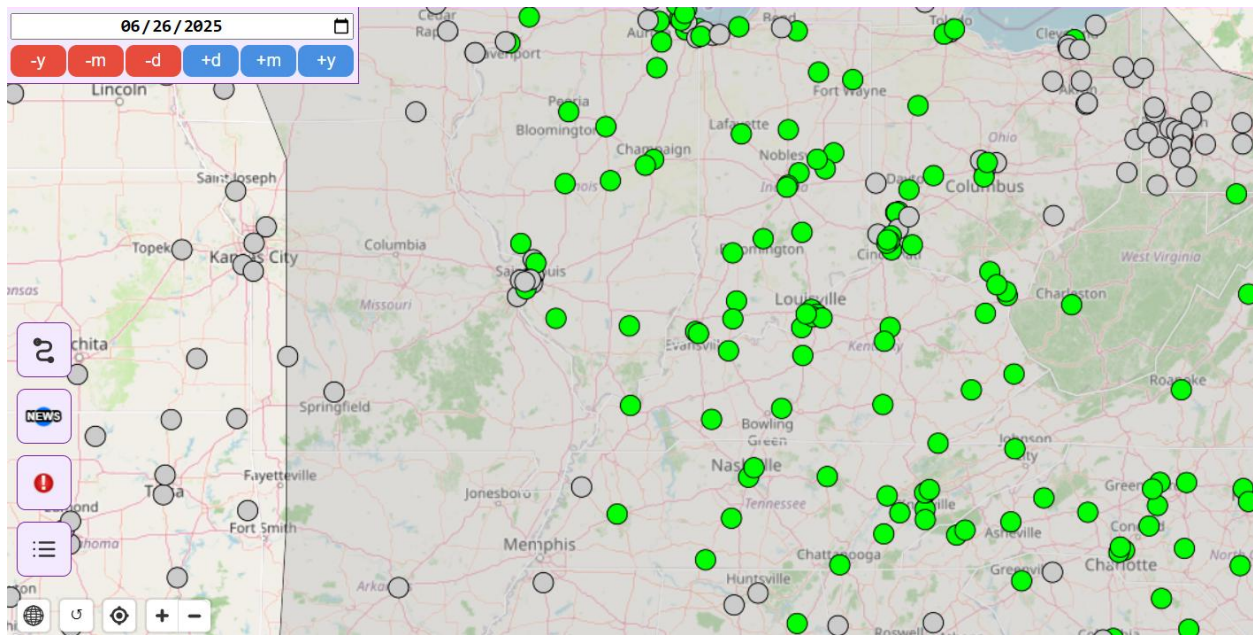
Southwestern United States...

Fires in southwestern Utah produced light to moderate density smoke that was observed traveling northeast up to Manitoba. The smoke continued east, merged with widespread smoke from Canada and Alaska, and moved toward the Atlantic.

June 26, 2025

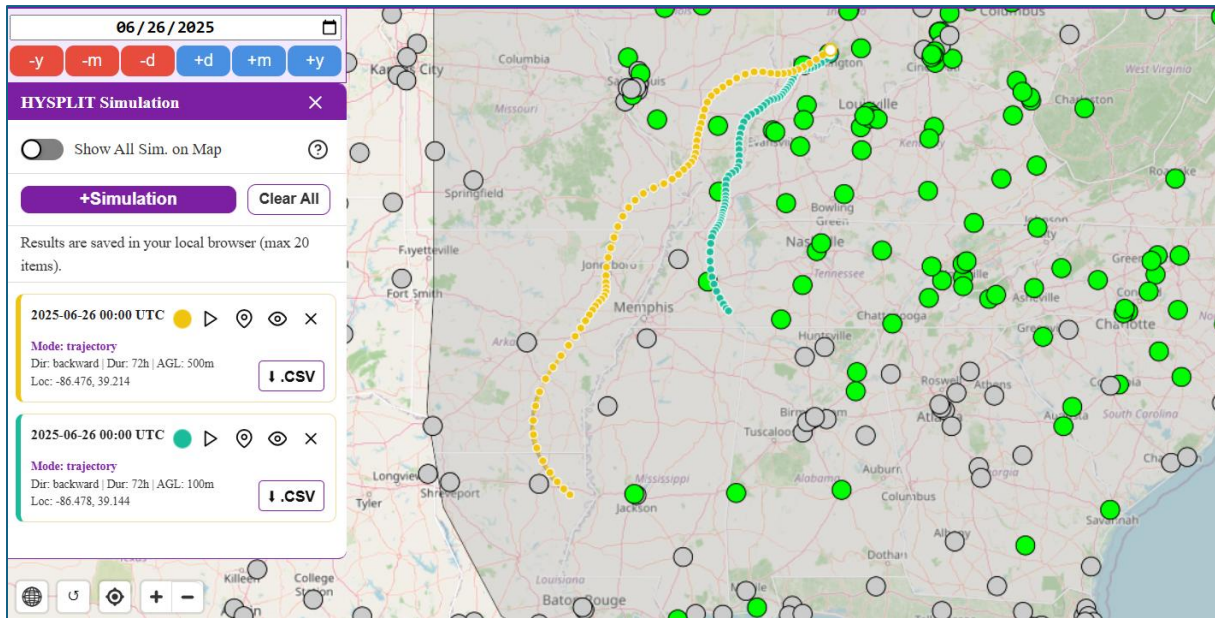
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Columbus - Rocky Ford Drive	180050008	6/26/2025	14.8	13.4
Bloomington - Binford	181050003	6/26/2025	13.2	12.8
Dale-N Wallace St	181470011	6/26/2025	15.6	13

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor name	AQS	Date	Daily Average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
Columbus - Rocky Ford Drive	180050008	6/26/2025	14.8	6.1
Bloomington - Binford	181050003	6/26/2025	13.2	5.4
Dale-N Wallace St	181470011	6/26/2025	15.6	4.1

Backward Trajectories

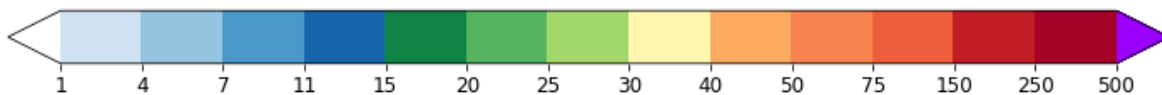
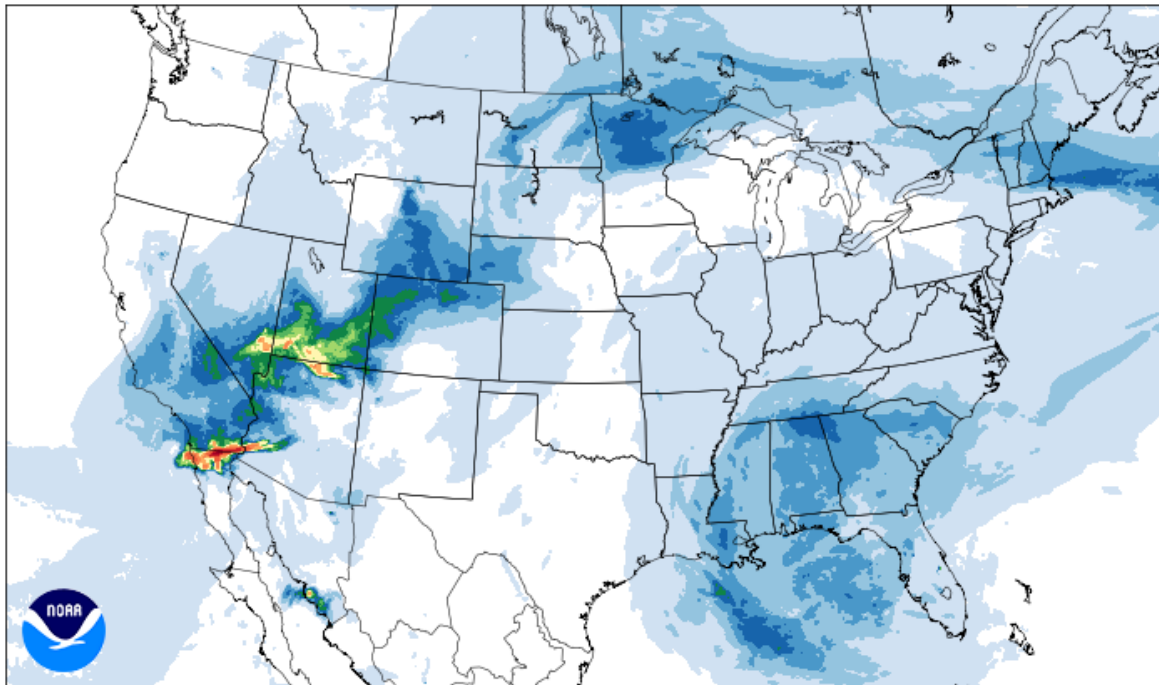


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250626 00 UTC

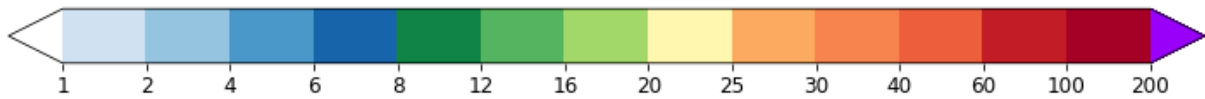
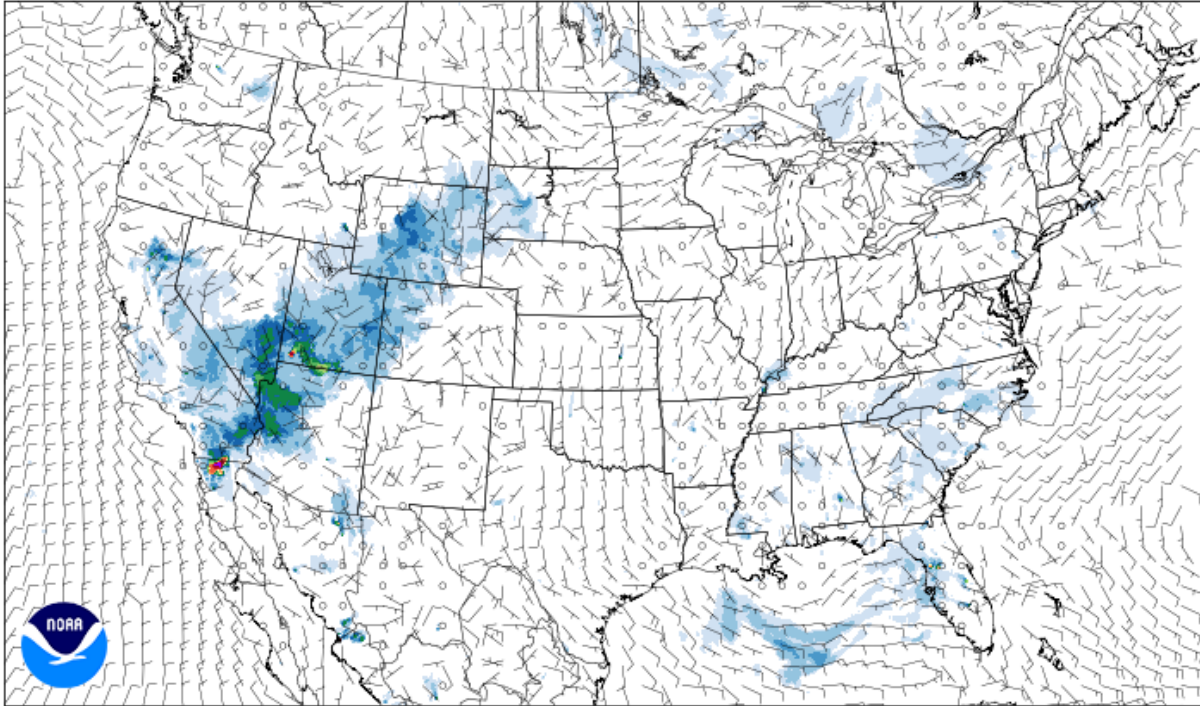
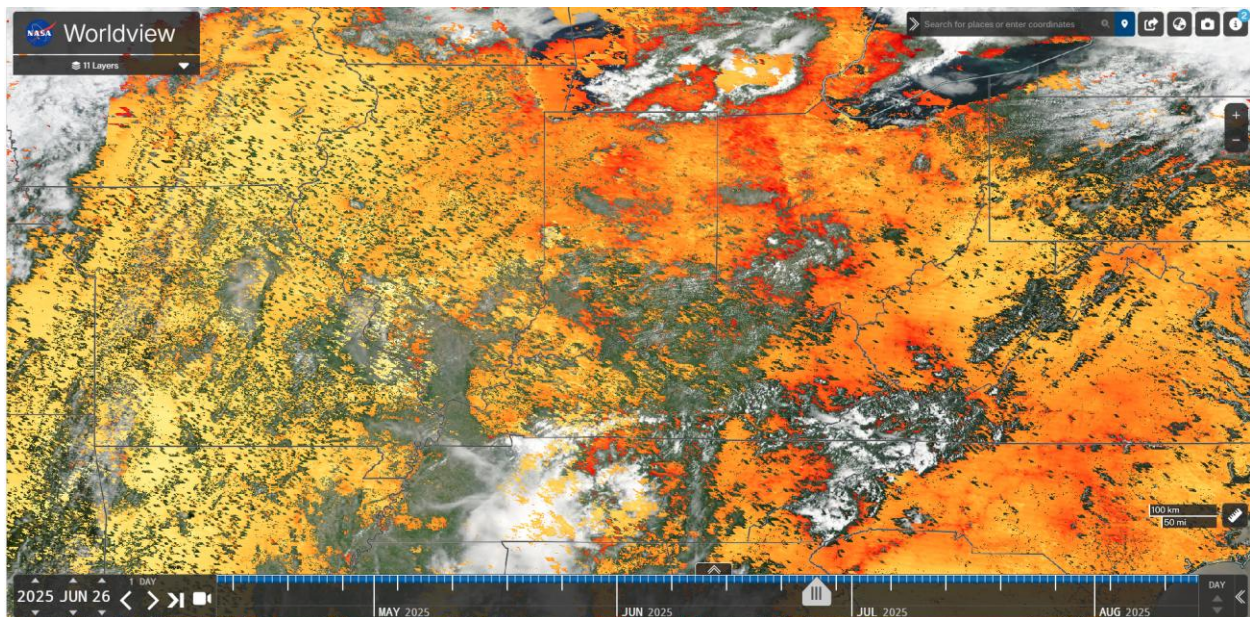
Fcst Hr: 13, Valid Time 20250626 13 UTC



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

HRRR-NCEP: 20250626 00 UTC

Fcst Hr: 9, Valid Time 20250626 09 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0120Z June 26, 2025

SMOKE:

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

Widespread wildfire activity across Alaska and northwestern and central Canada continued to generate smoke that spread from Alaska and northwestern Canada across the continent into the Atlantic. Moderate to thick smoke plumes were observed across Alaska and northwestern and central Canada. Lighter smoke moved offshore and southward, with some circling back toward the U.S. East Coast and accumulating across the Southeast.

Southwestern United States/Northwest Mexico...

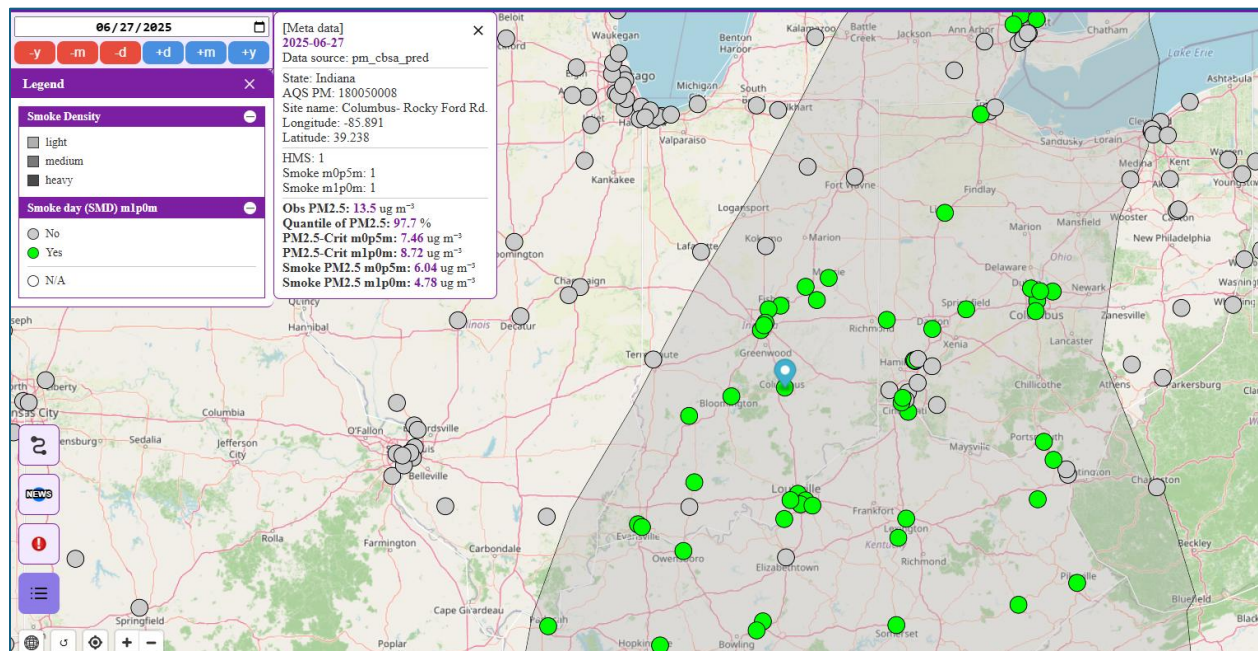
Wildfires in northern Baja California and southwestern Utah were observed producing light to locally moderate smoke that traveled northeast as far as Manitoba. The smoke then continued eastward, merged with widespread smoke from Canada and Alaska and moved toward the Atlantic.

June 27, 2025

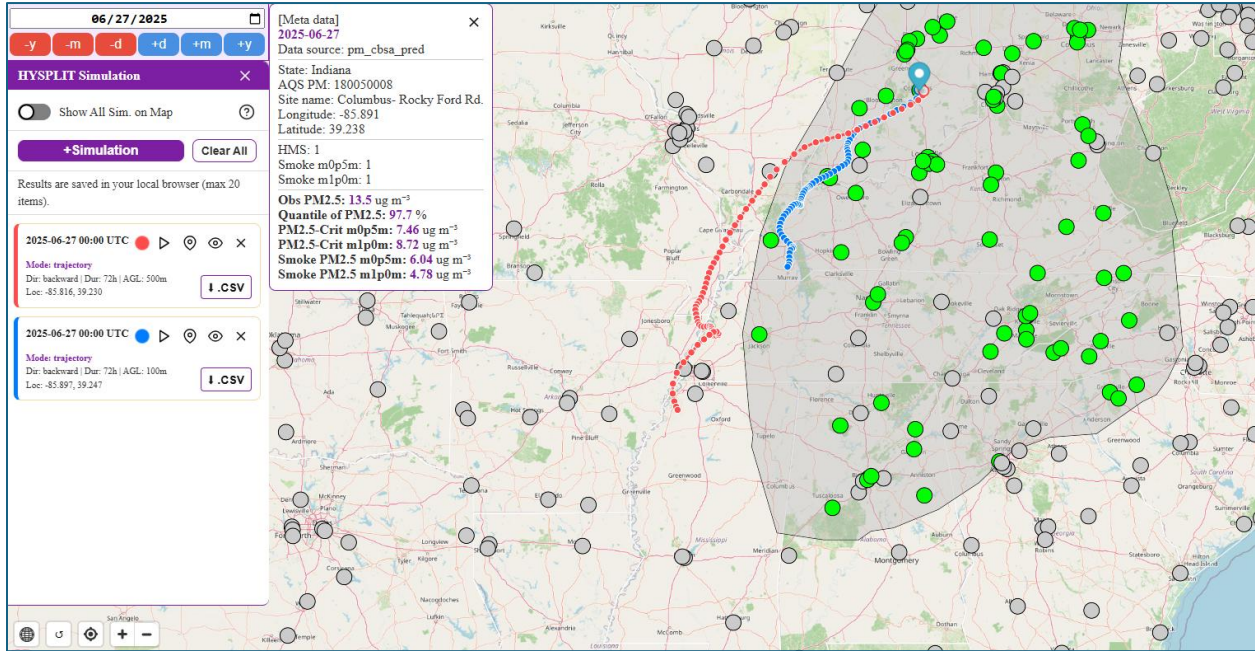
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Columbus - Rocky Ford Drive	180050008	6/27/2025	13.5	13.4

Smokelyze Smoke Map with Estimated Smoke Concentration



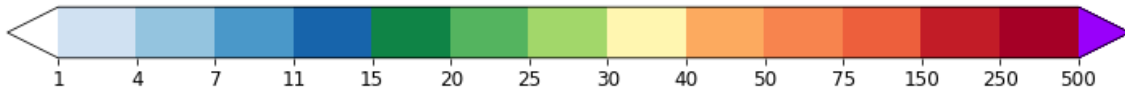
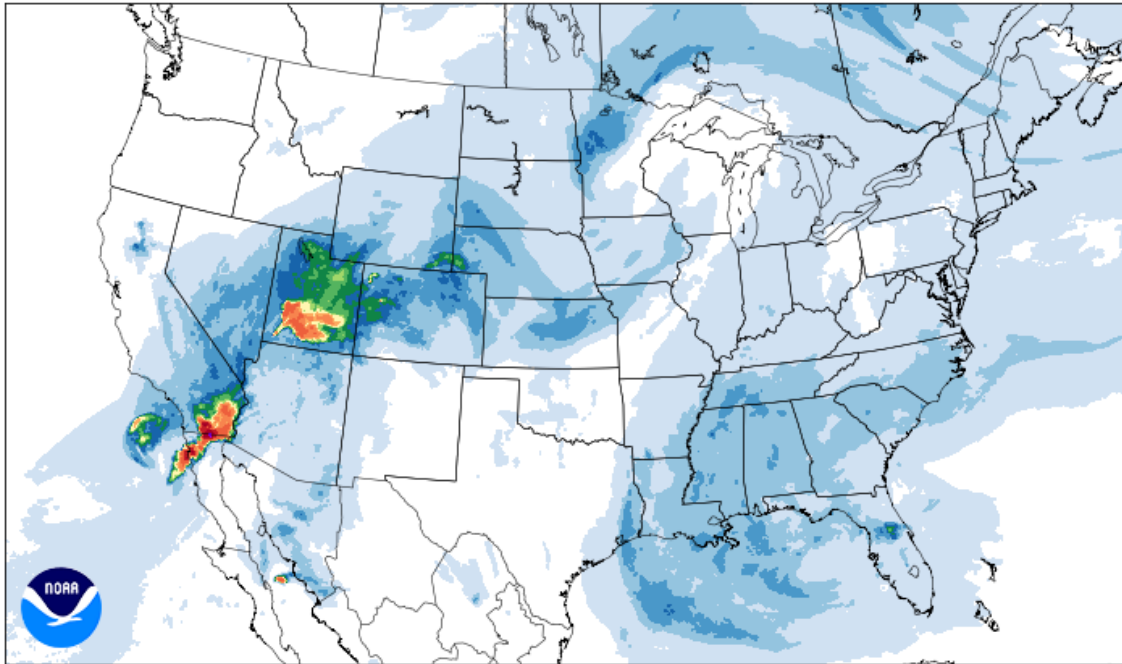
Backward Trajectories



HRRR Smoke - Vertically Integrated Smoke

Vertically Integrated Smoke (mg/m², shaded)

HRRR-NCEP: 20250627 00 UTC
Fcst Hr: 9, Valid Time 20250627 09 UTC

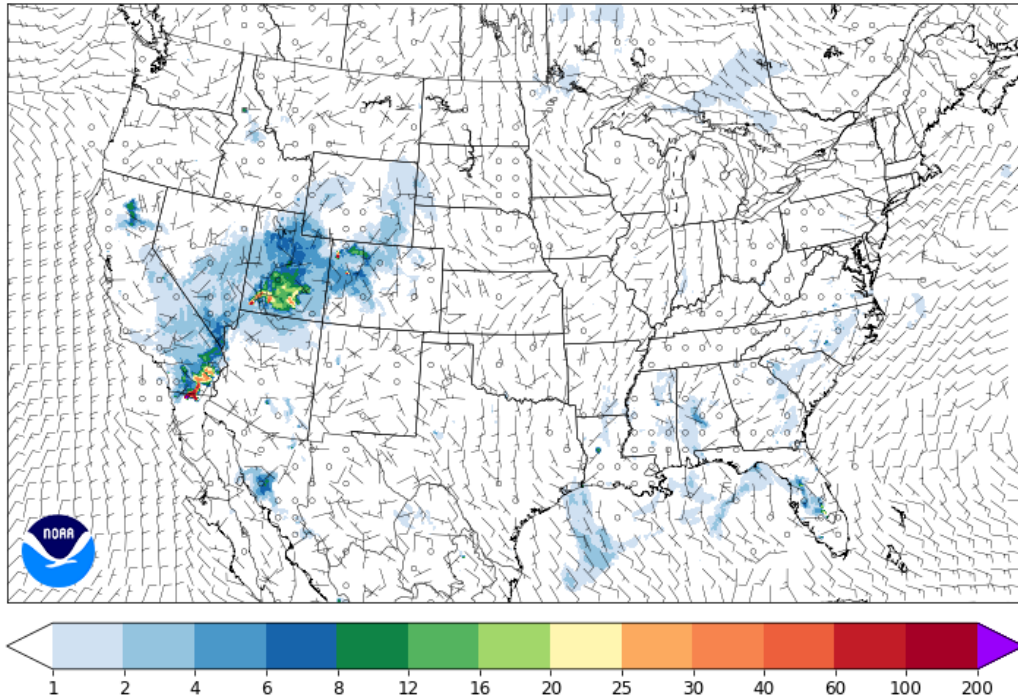


HRRR Smoke – Near Surface Smoke

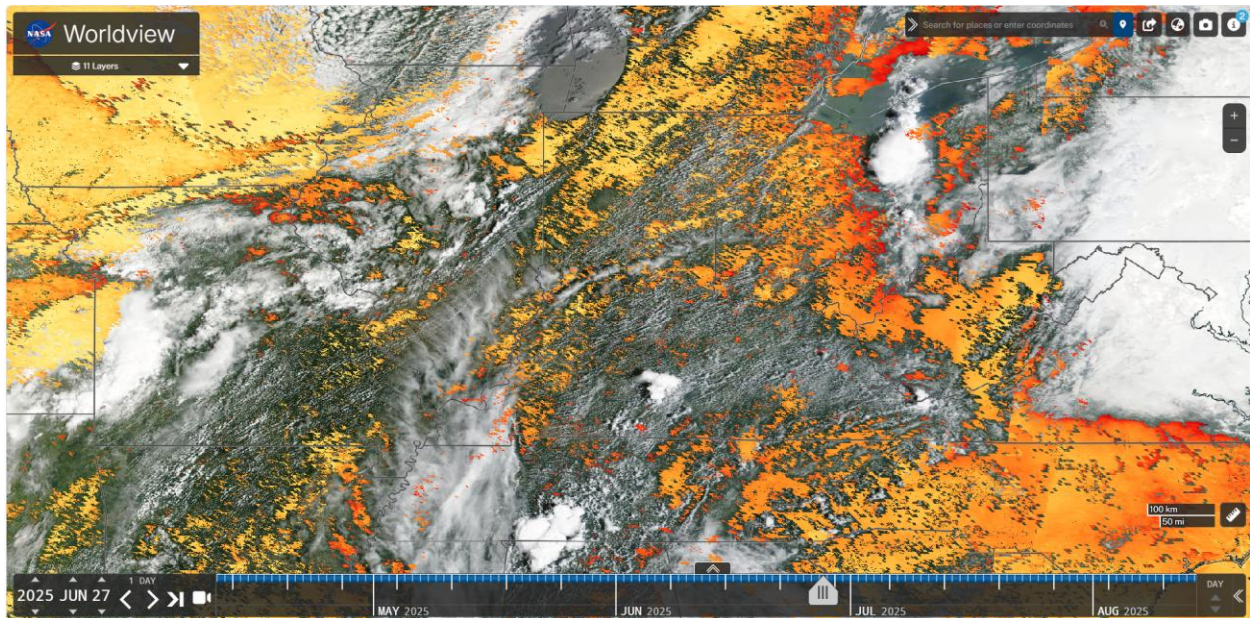
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250627 00 UTC

Fcst Hr: 9, Valid Time 20250627 09 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1430Z June 27, 2025

SMOKE:

Northern Alaska and Canada...

Widespread wildfire activity in the northwestern Canada, particularly in central Yukon, Northeastern British Columbia, Southwestern Northwest Territories, Central Alberta and Saskatchewan, continued to produce significant emissions resulting in a large area of light to moderate density smoke extending from Northwestern-Northern Alaska to Northern Canada reaching the Northern Hudson Bay. Two smaller pockets of light-density smoke could also be observed across Eastern Saskatchewan and Western Manitoba, and over Northwestern Ontario as a result of nearby wildfires.

Utah/Wyoming/Colorado...

Predominantly light-density smoke from wildfires in Southwestern Utah was seen spreading northeastward across the majority of that state, and extending into Southern Wyoming and Northern Colorado.

Ohio Valley...

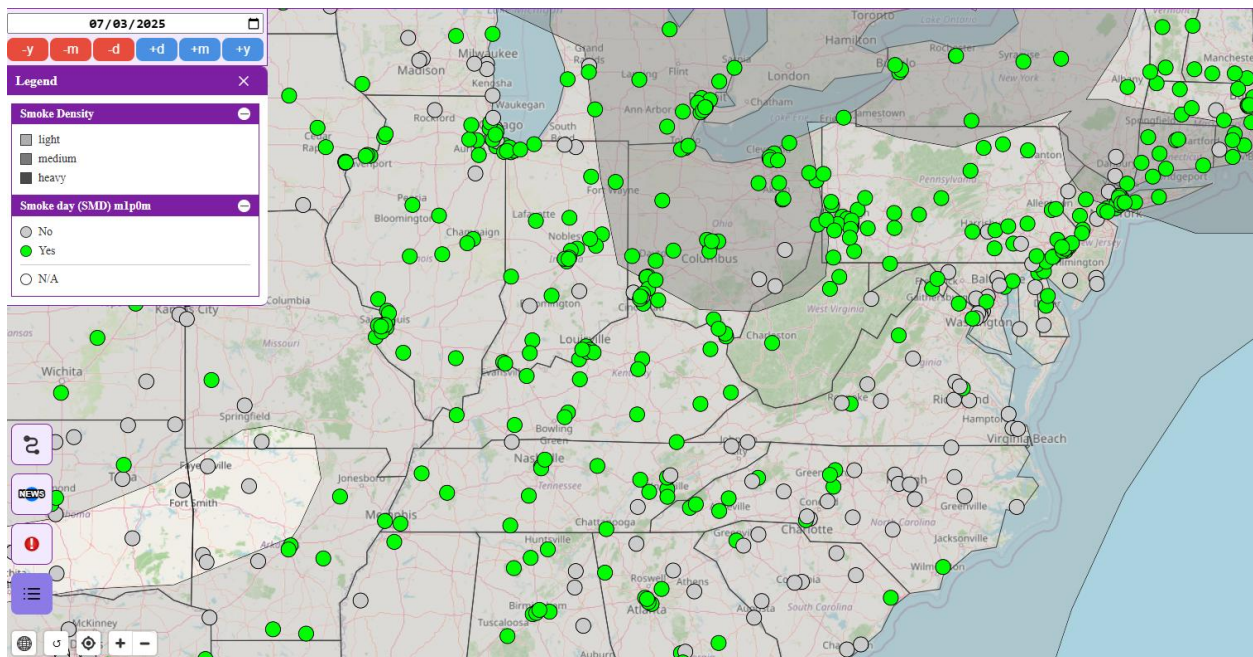
Remnant light-density smoke from previous day burning along the Mississippi Valley is moving northeastward over parts of the Ohio Valley this morning.

July 3, 2025

PM_{2.5} Monitoring Sites Impacted by Wildfire and Firework Smoke

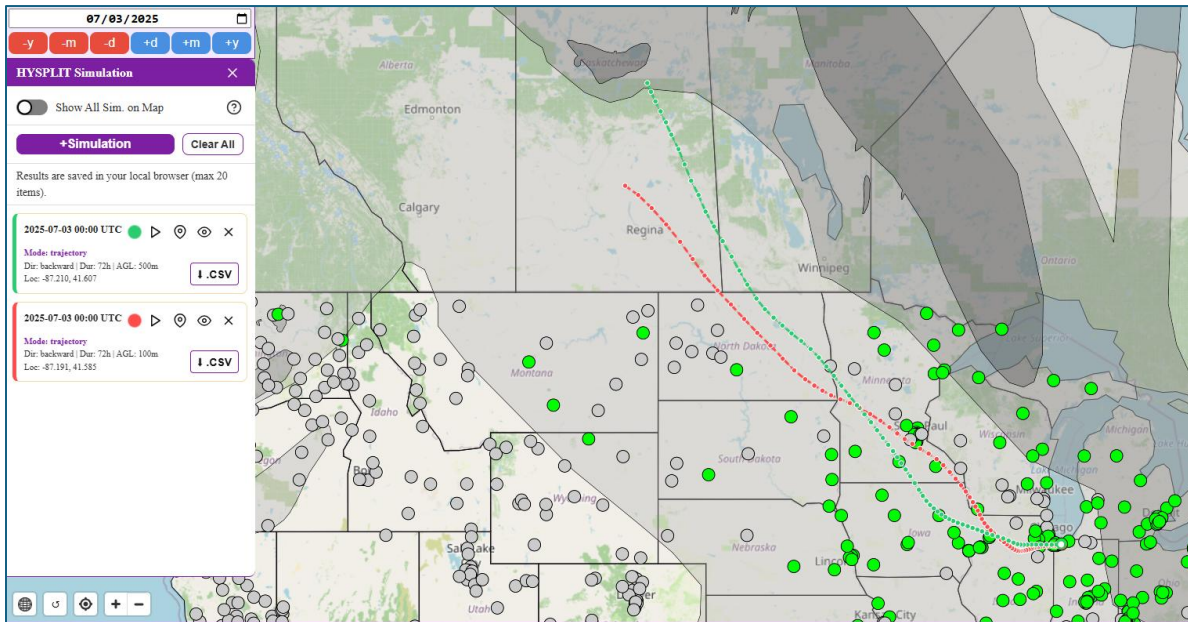
Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
New Albany	180430008	7/3/2025	14.5	13.7
Ogden Dunes	181270024	7/3/2025	18.8	15.3

Smokelyze Smoke Map with Estimated Smoke Concentration



Monitor name	AQS	Date	Daily Average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
New Albany	180430008	7/3/2025	14.5	NA
Ogden Dunes	181270024	7/3/2025	18.8	8.0

Backward Trajectories

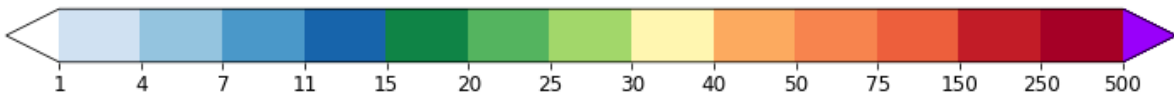
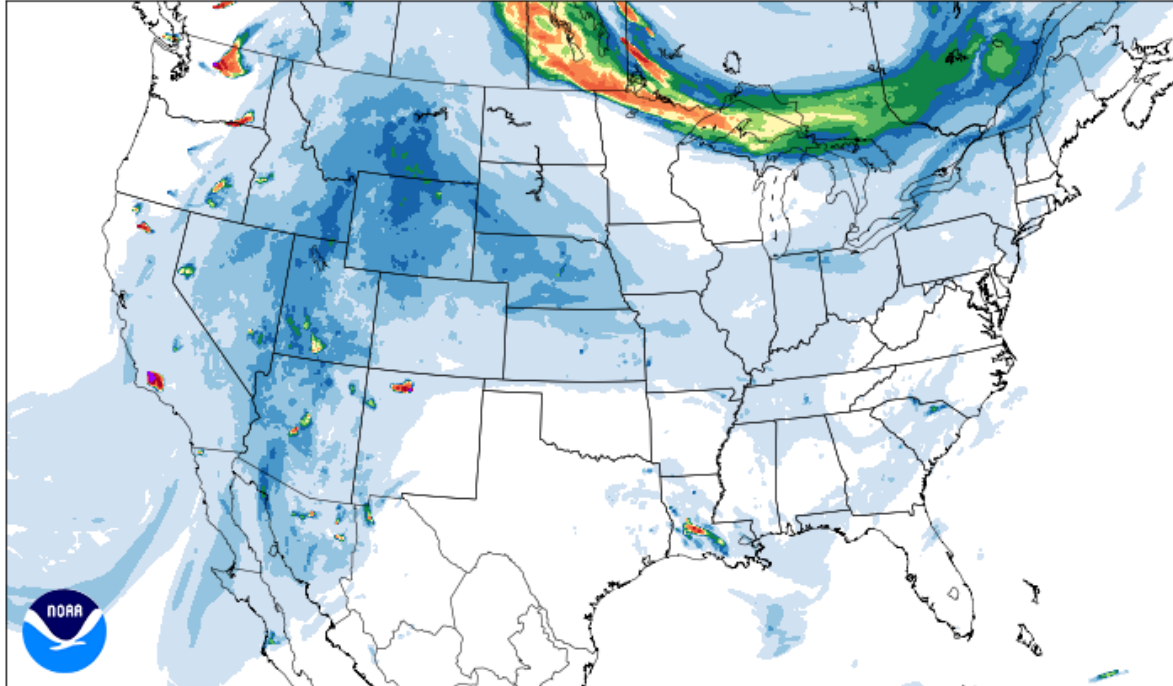


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250703 00 UTC

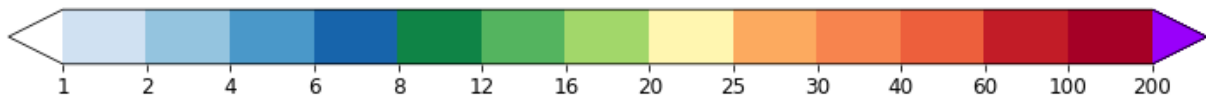
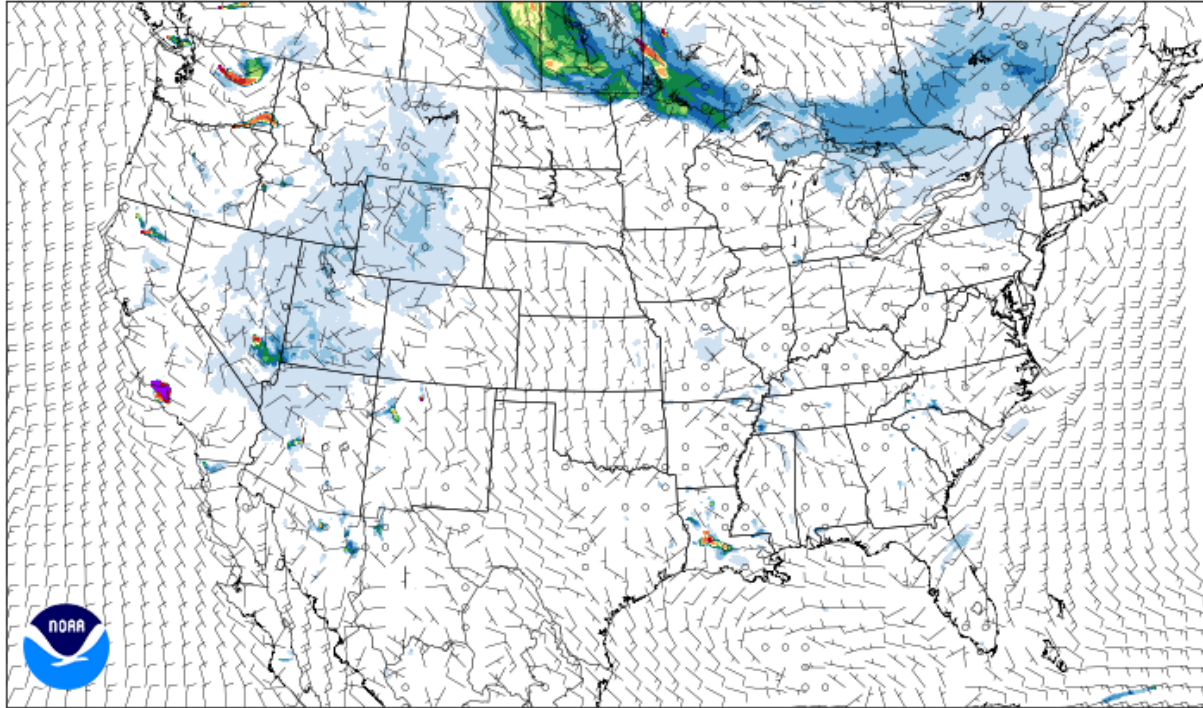
Fcst Hr: 1, Valid Time 20250703 01 UTC



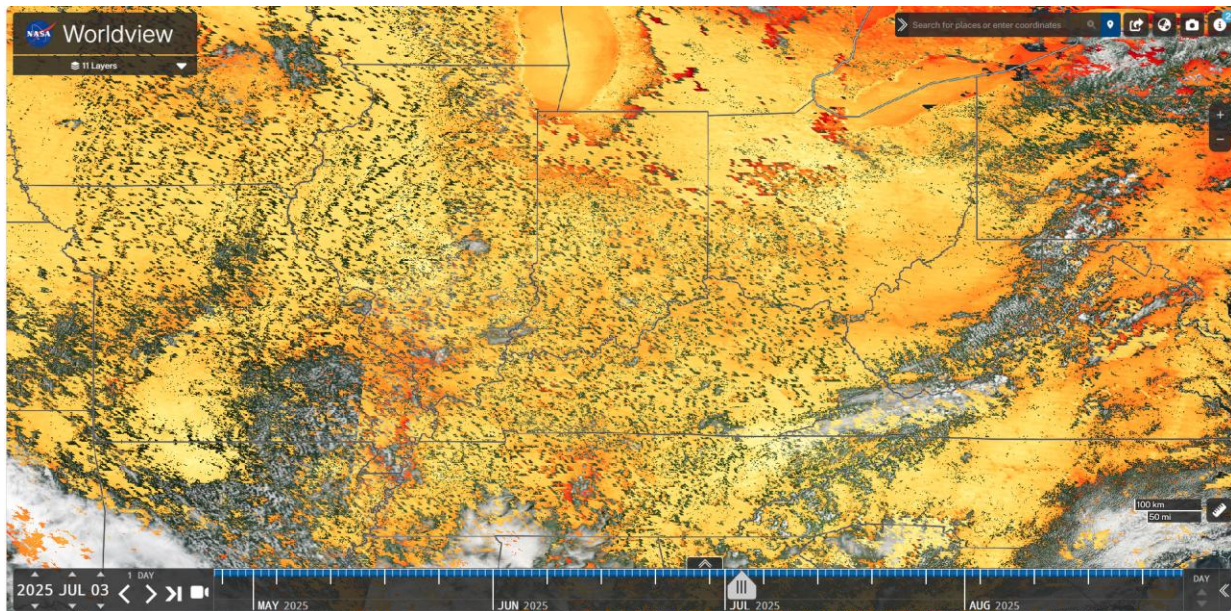
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250703 00 UTC

Fcst Hr: 3, Valid Time 20250703 03 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1600Z July 3, 2025

SMOKE:

Canada/Northern United States/Eastern United States...

An area of mainly light to moderate smoke was observed blanketing an area encompassing Alaska, much of Canada, much of the eastern and central CONUS, southern Greenland, Iceland, the UK, and into Europe. This area of smoke is mainly the result of wildfire activity across central Canada and Alaska with minor contributions from smaller and more isolated wildfires across the NW Territory. The thickest smoke was observed across central Alaska and central Canada including Manitoba and western Ontario. Smoke is generally moving westward across central Alaska, the Yukon, and NW Territory around an area of high pressure over northern Alaska and the Bering Sea while smoke originating from central Canada is being drawn east then southeast across the Great Lakes and into the northeastern CONUS and Maritime Provinces. Light remnant smoke was also seen across much of the eastern CONUS.

Fireworks:

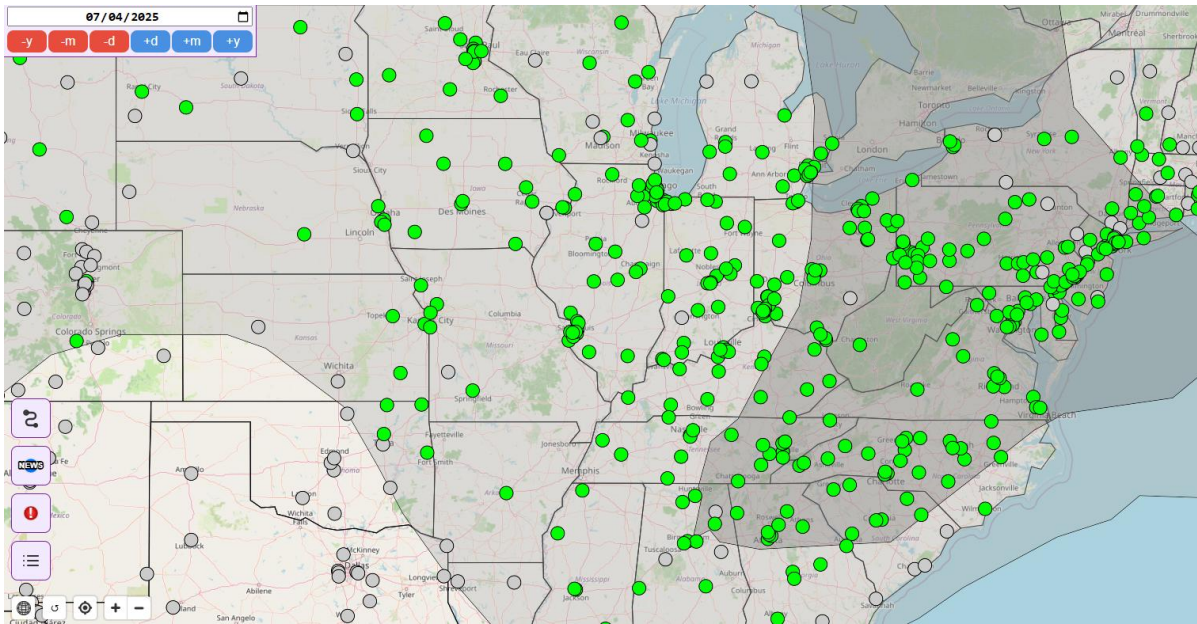
New Albany Shoreline Independence Day Celebration

- Date & Time: Thursday, July 3, 2025, from 6:00 PM to 10:00 PM
- Location: New Albany Riverfront Amphitheater, 100 E. Water St., New Albany, IN
- Highlights:
 - Spectacular fireworks display at dark

July 4, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire and Firework Smoke**

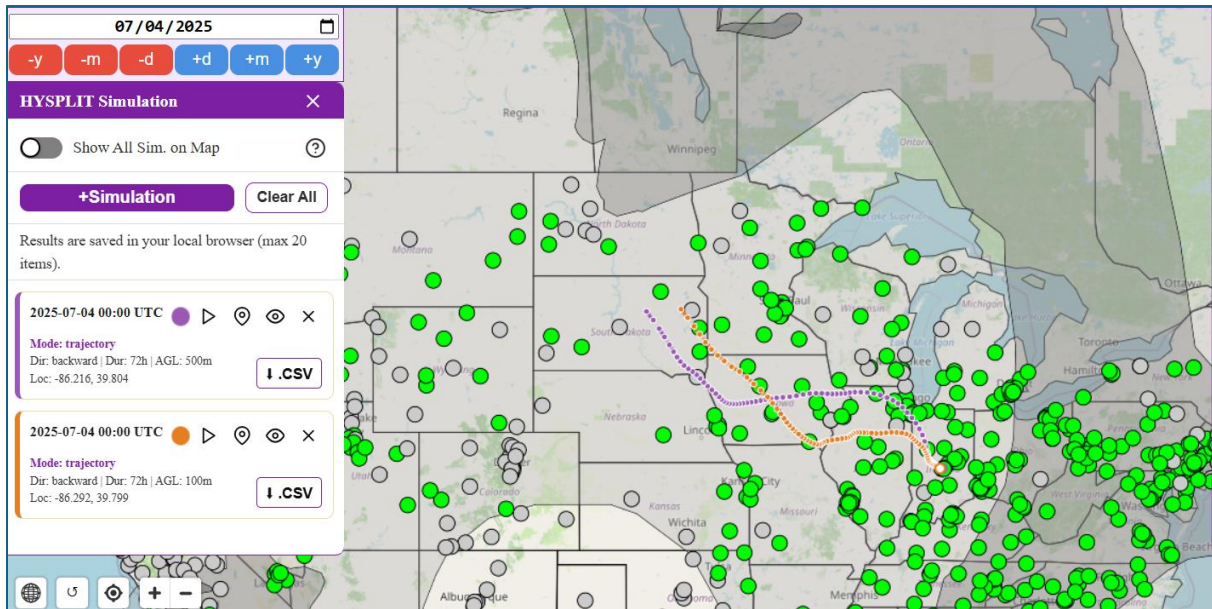
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Columbus - Rocky Ford Drive	180050008	7/4/2025	26.9	13.4
Jeffersonville - Bates-Bowyer Ave	180190010	7/4/2025	25.3	16.6
Muncie - Central HS	180350006	7/4/2025	29.0	13.2
Elkhart - Prairie St	180390008	7/4/2025	27.4	16.3
New Albany	180430008	7/4/2025	25.9	13.7
Fishers	180570007	7/4/2025	38.3	13.8
East Chicago - Marina	180890034	7/4/2025	19.0	18.0
Hammond-167th St	180890036	7/4/2025	26.1	16.2
Michigan City - Marsh Elem. Sch.	180910011	7/4/2025	22.5	15.9
Indianapolis - Washington Park	180970078	7/4/2025	45.9	18.1
Indianapolis - W. 18th St.	180970081	7/4/2025	59.9	24.5
Indianapolis- I-70 E	180970087	7/4/2025	34.5	20.5
Bloomington - Binford	181050003	7/4/2025	13.2	12.8
Ogden Dunes	181270024	7/4/2025	28.5	15.3
South Bend - Shields Dr.	181410015	7/4/2025	30.0	16.9
Dale-N Wallace St	181470011	7/4/2025	15.2	13.0
Lafayette - Greenbush St	181570008	7/4/2025	19.3	15.1
Evansville - Buena Vista	181630021	7/4/2025	24.7	16.4
Evansville - Oak Hill	181630024	7/4/2025	28.4	21.1
Terre Haute - Lafayette Ave	181670018	7/4/2025	38.4	18.8

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	7/4/2025	26.9	15.5
Jeffersonville - Bates-Bowyer Ave	180190010	7/4/2025	25.3	17
Muncie - Central HS	180350006	7/4/2025	29.0	20.9
Elkhart - Prairie St	180390008	7/4/2025	27.4	16.5
New Albany	180430008	7/4/2025	25.9	NA
Fishers	180570007	7/4/2025	38.3	29.5
East Chicago - Marina	180890034	7/4/2025	19.0	9.7
Hammond-167th St	180890036	7/4/2025	26.1	17.7
Michigan City - Marsh Elem. Sch.	180910011	7/4/2025	22.5	12.7
Indianapolis - Washington Park	180970078	7/4/2025	45.9	36.4
Indianapolis - W. 18th St.	180970081	7/4/2025	59.9	50.2
Indianapolis- I-70 E	180970087	7/4/2025	34.5	24.2
Bloomington - Binford	181050003	7/4/2025	13.2	3.8
Ogden Dunes	181270024	7/4/2025	28.5	17.7
South Bend - Shields Dr.	181410015	7/4/2025	30.0	18.8
Dale-N Wallace St	181470011	7/4/2025	15.2	5.6
Lafayette - Greenbush St	181570008	7/4/2025	19.3	11.7
Evansville - Buena Vista	181630021	7/4/2025	24.7	16.1
Evansville - Oak Hill	181630024	7/4/2025	28.4	20.3
Terre Haute - Lafayette Ave	181670018	7/4/2025	38.4	28.7

Backward Trajectories

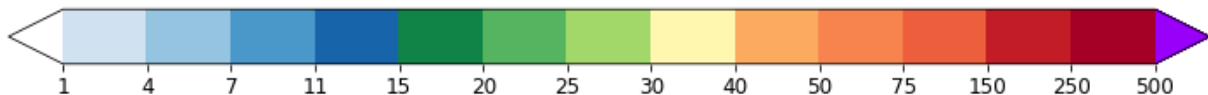
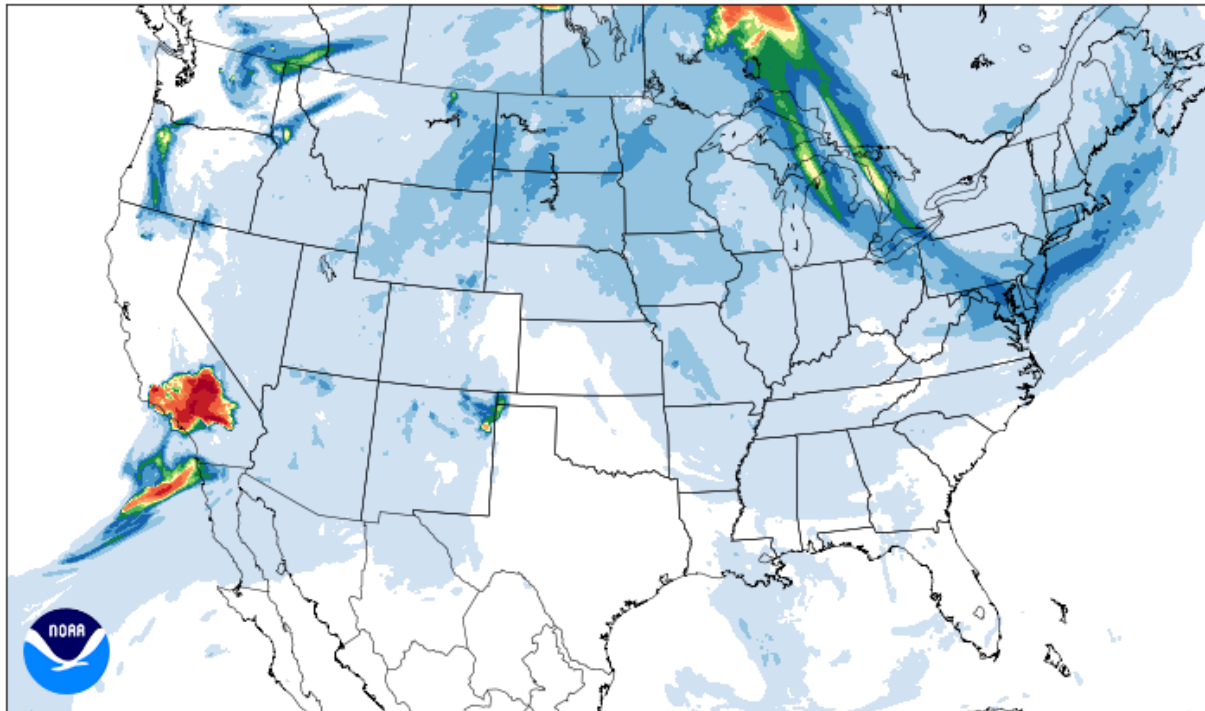


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250704 00 UTC

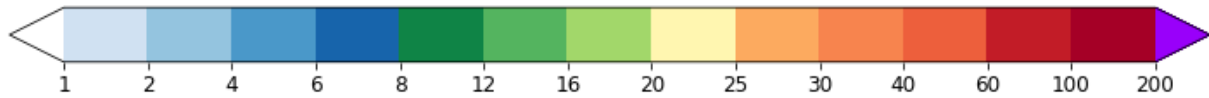
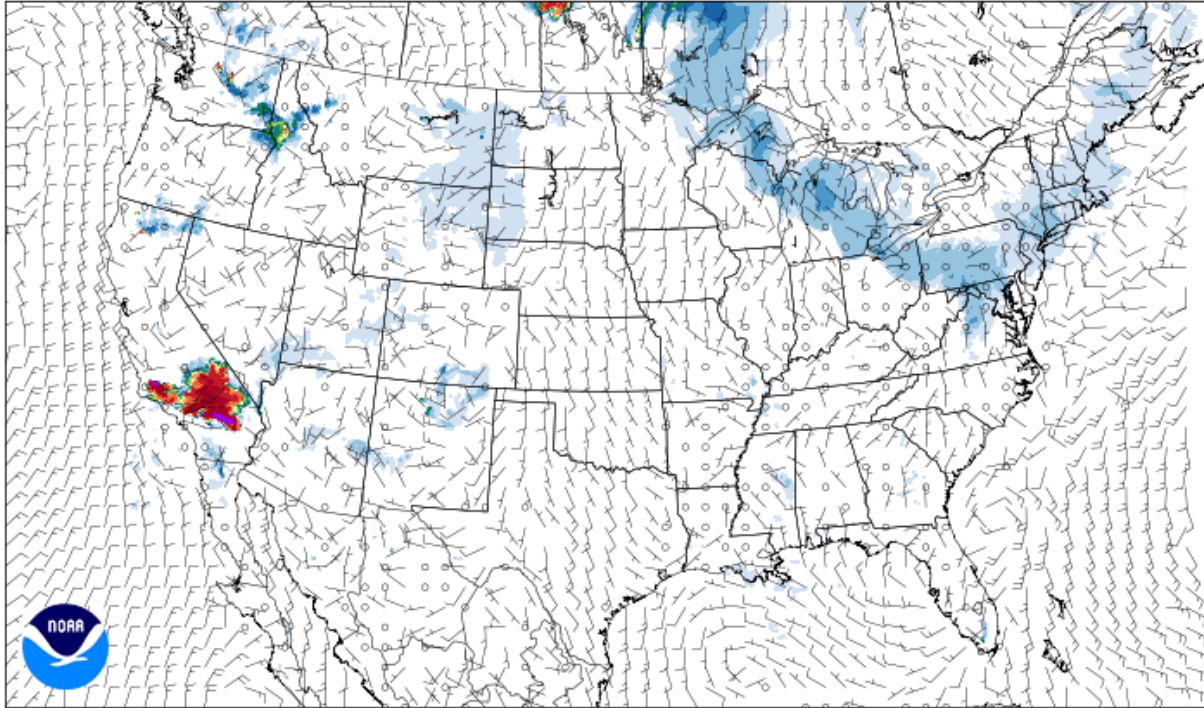
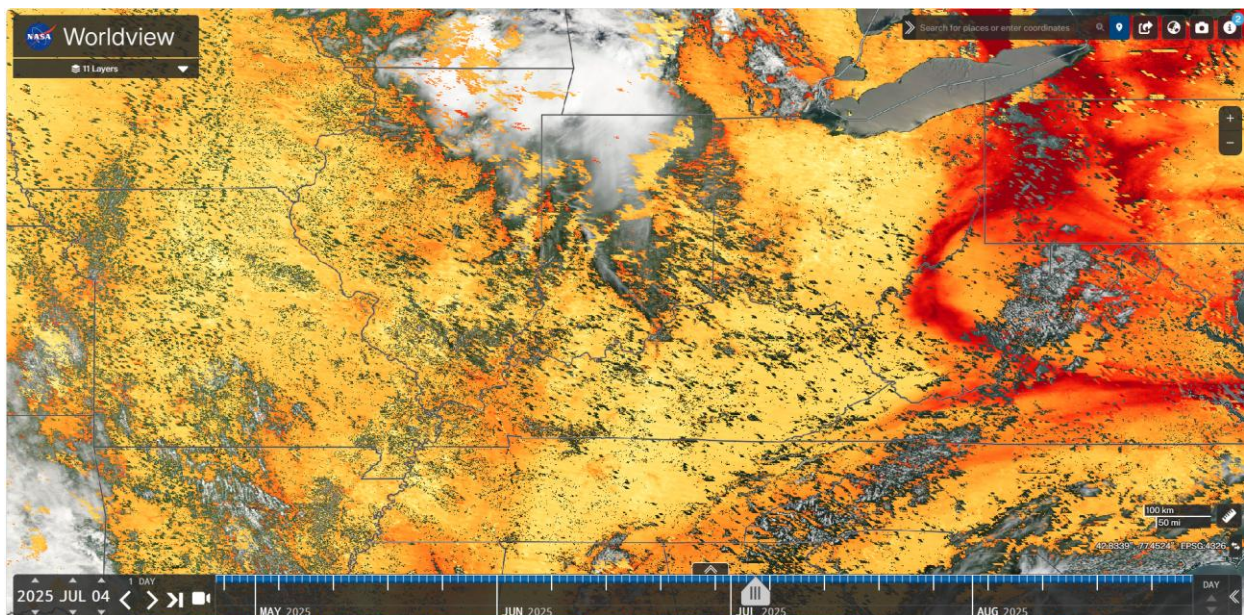
Fcst Hr: 9, Valid Time 20250704 09 UTC



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

HRRR-NCEP: 20250704 00 UTC

Fcst Hr: 11, Valid Time 20250704 11 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1430Z July 4, 2025

SMOKE:

Alaska/Canada...

Wildfires continued throughout central Alaska, northern British Columbia, Saskatchewan and Manitoba which produced plumes of thick smoke and larger areas of moderate smoke density. In Alaska the smoke moved to the west, while Canadian smoke moved to the east and circulated south.

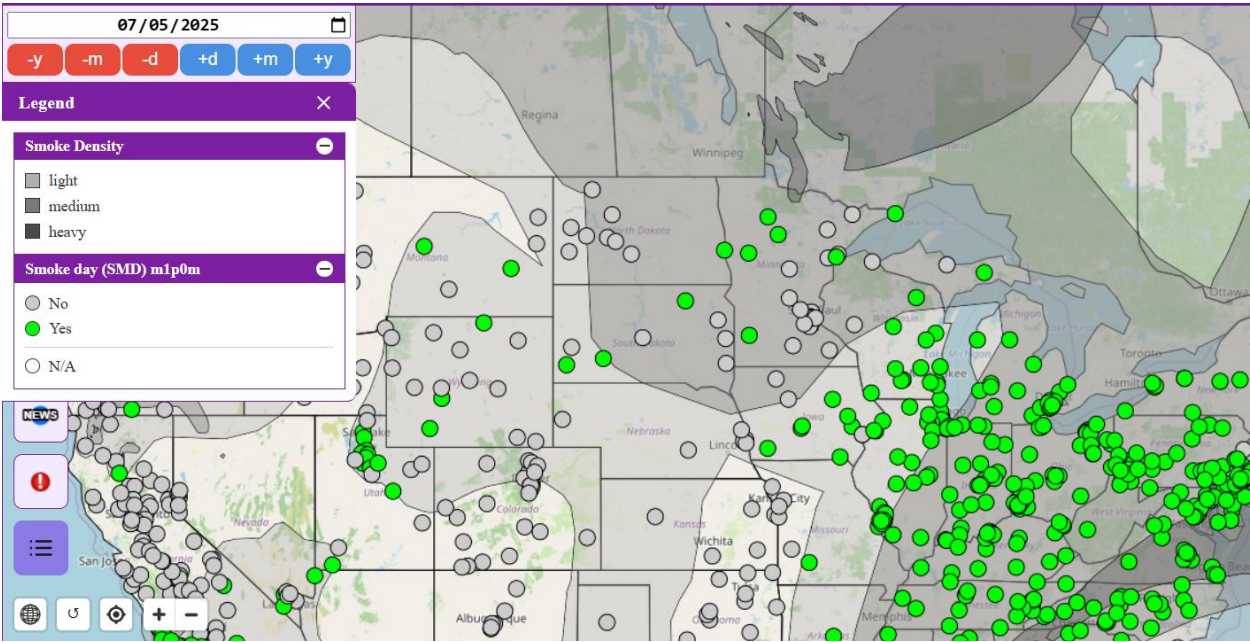
Southwestern United States/Central Plains/Eastern States...

The Madre fire in southern California continued to produce thick to moderate density smoke which spread partially south and then circulated west offshore Baja. A large area of light density smoke also moved to the northeast across Nevada, Arizona and over the Rockies where it mixed with the smoke from Canadian fires before moving east across the central plains and eastern states. Light to medium density smoke continued to spread offshore into the Atlantic.

July 5, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire and Firework Smoke**

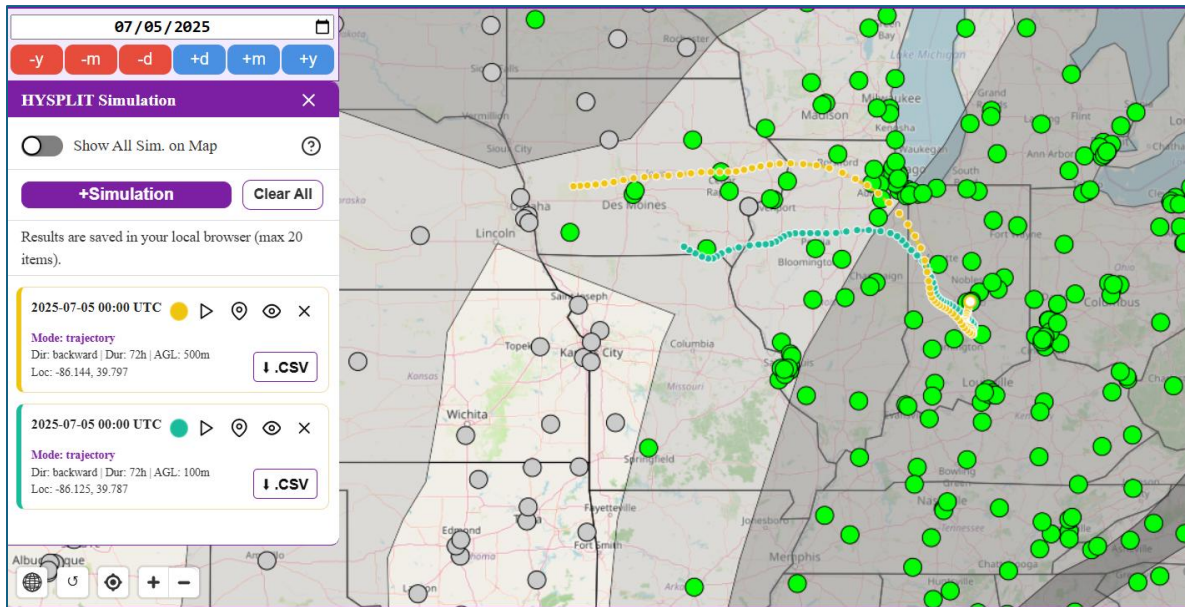
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Fort Wayne - Coliseum	180030015	7/5/2025	26.7	18
Columbus - Rocky Ford Drive	180050008	7/5/2025	18.9	13.4
Jeffersonville - Bates-Bowyer Ave	180190010	7/5/2025	27.5	16.6
Muncie - Central HS	180350006	7/5/2025	25.4	13.2
Jasper - Post Office	180372001	7/5/2025	16.4	15.4
New Albany	180430008	7/5/2025	30.4	13.7
Fishers	180570007	7/5/2025	42.6	13.8
Kokomo - E. Vaile Ave	180670004	7/5/2025	15.5	13.9
Anderson - Eastside Elem	180950011	7/5/2025	16.9	15.4
Indianapolis - Washington Park	180970078	7/5/2025	78.7	18.1
Indianapolis - W. 18th St.	180970081	7/5/2025	82.1	24.5
Indianapolis- I-70 E	180970087	7/5/2025	68.1	20.5
Bloomington - Binford	181050003	7/5/2025	14.0	12.8
Ogden Dunes	181270024	7/5/2025	19.5	15.3
Dale-N Wallace St	181470011	7/5/2025	14.9	13
Evansville - Buena Vista	181630021	7/5/2025	27.4	16.4
Evansville - Oak Hill	181630024	7/5/2025	23.4	21.1
Terre Haute - Lafayette Ave	181670018	7/5/2025	27.2	18.8
Larwill	181830003	7/5/2025	16.9	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	7/5/2025	26.7	17.4
Columbus - Rocky Ford Drive	180050008	7/5/2025	18.9	7.5
Jeffersonville - Bates-Bowyer Ave	180190010	7/5/2025	27.5	19.2
Muncie - Central HS	180350006	7/5/2025	25.4	17.3
Jasper - Post Office	180372001	7/5/2025	16.4	5.7
New Albany	180430008	7/5/2025	30.4	NA
Fishers	180570007	7/5/2025	42.6	33.6
Kokomo - E. Vaile Ave	180670004	7/5/2025	15.5	9.0
Anderson - Eastside Elem	180950011	7/5/2025	16.9	8.8
Indianapolis - Washington Park	180970078	7/5/2025	78.7	69.2
Indianapolis - W. 18th St.	180970081	7/5/2025	82.1	72.4
Indianapolis- I-70 E	180970087	7/5/2025	68.1	57.9
Bloomington - Binford	181050003	7/5/2025	14.0	4.6
Ogden Dunes	181270024	7/5/2025	19.5	8.7
Dale-N Wallace St	181470011	7/5/2025	14.9	5.3
Evansville - Buena Vista	181630021	7/5/2025	27.4	18.8
Evansville - Oak Hill	181630024	7/5/2025	23.4	15.3
Terre Haute - Lafayette Ave	181670018	7/5/2025	27.2	17.5
Larwill	181830003	7/5/2025	16.9	10.2

Backward Trajectories

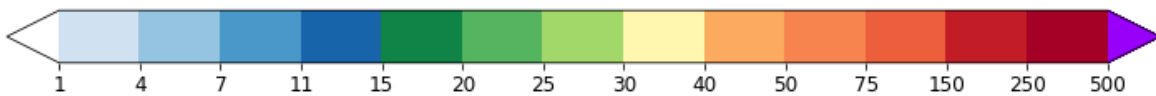
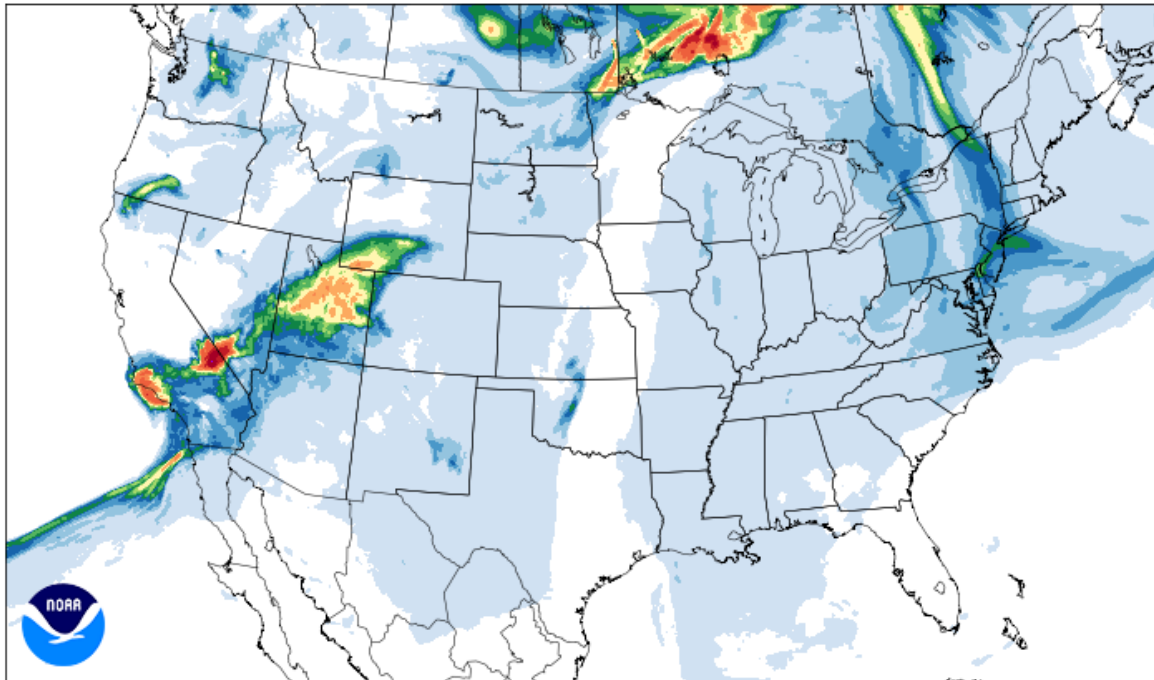


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250705 00 UTC

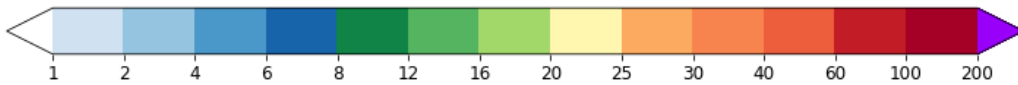
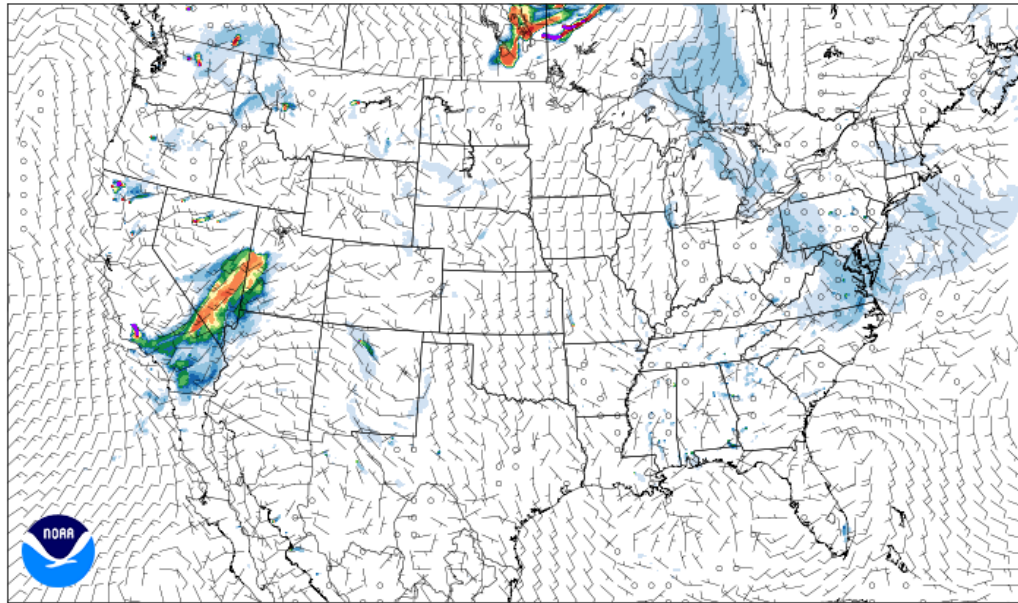
Fcst Hr: 10, Valid Time 20250705 10 UTC



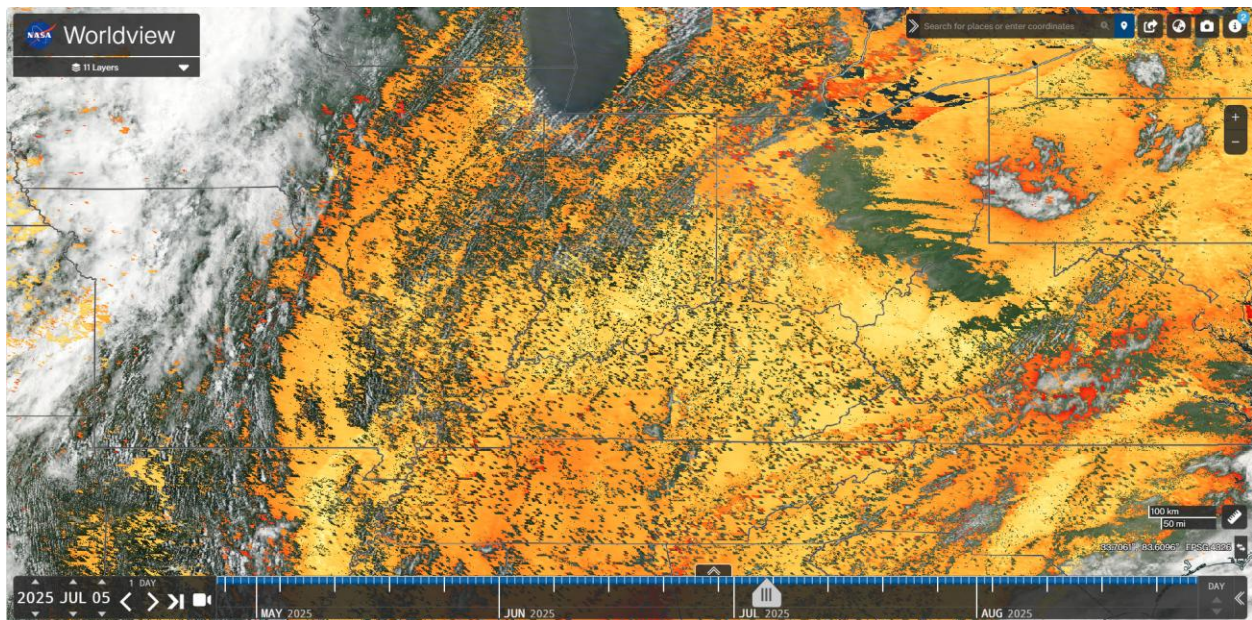
HRRR Smoke – Near Surface Smoke

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

HRRR-NCEP: 20250705 00 UTC
Fcst Hr: 0, Valid Time 20250705 00 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1430Z July 5, 2025

SMOKE:

Alaska/Canada/Eastern United States...

Fires across central Alaska and Canadian central Provinces continued to produce thick to moderate smoke. Thicker smoke in Alaska diverted mostly west with some moderate drifting east-southeast, merged with thicker Canadian smoke and continued east. Moderate smoke spread towards the Atlantic and to the south, where it condensed over the eastern states and moved offshore into the Atlantic.

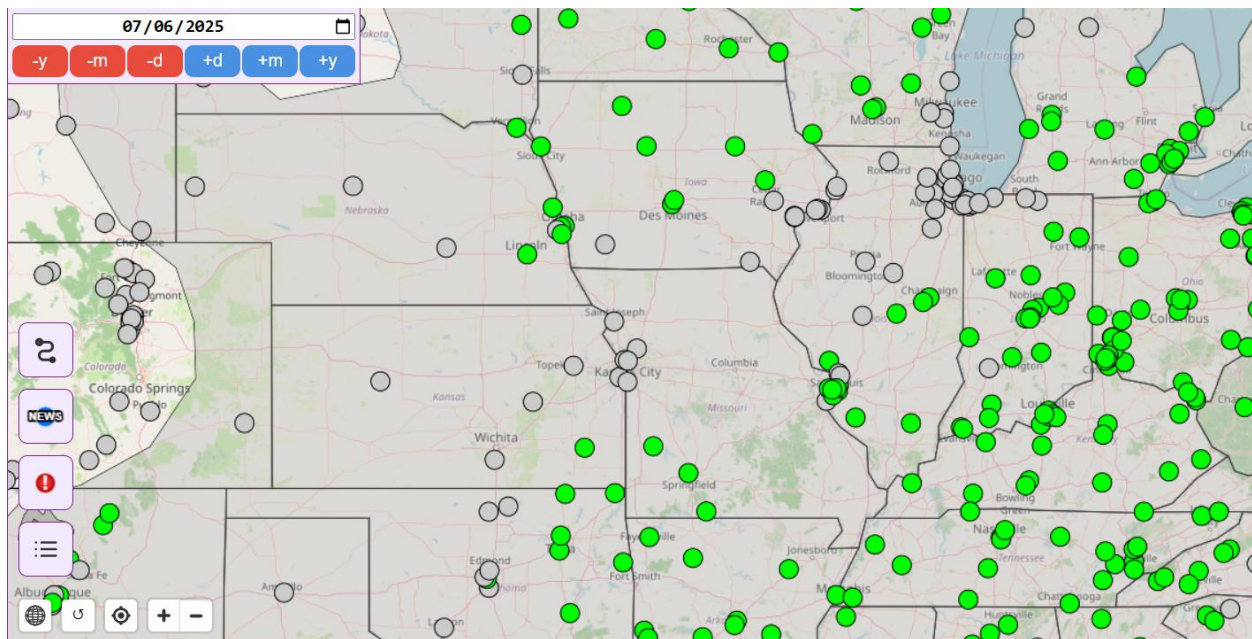
Central United States...

Light smoke from fires in Utah spread northeast across Wyoming, and south over the plains towards western Texas.

July 6, 2025

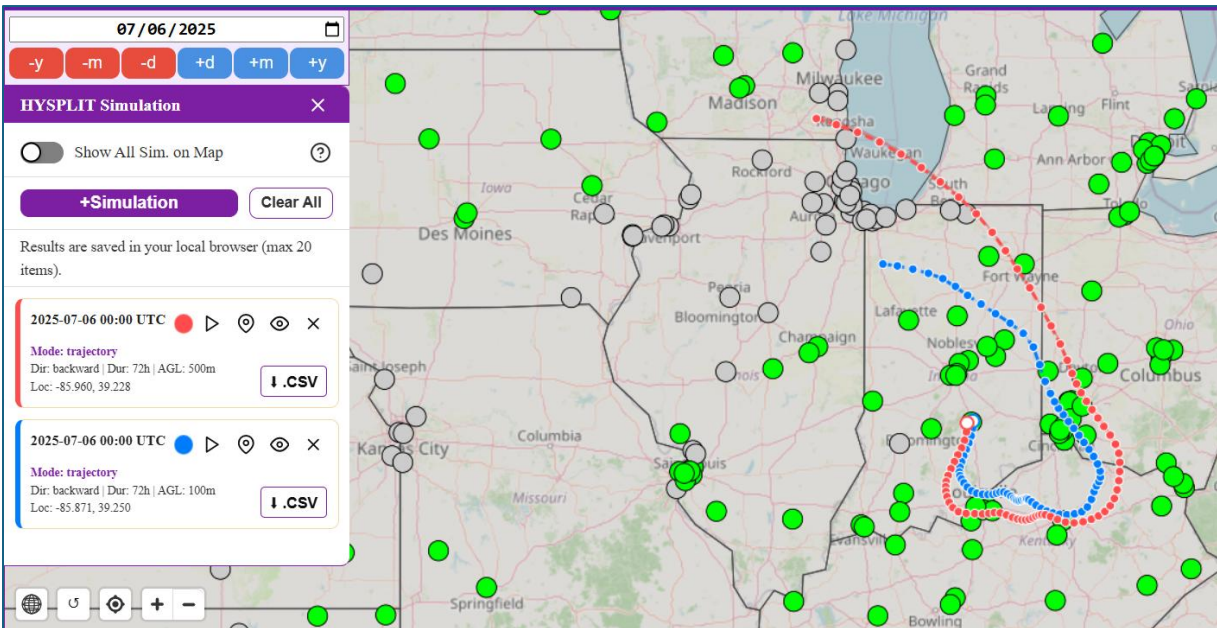
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Columbus - Rocky Ford Drive	180050008	7/6/2025	16.2	13.4
New Albany	180430008	7/6/2025	15.2	13.7
Fishers	180570007	7/6/2025	13.7	13.8
Dale-N Wallace St	181470011	7/6/2025	13.0	13

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor Name	AQS	Date	Daily average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
Columbus - Rocky Ford Drive	180050008	7/6/2025	16.2	4.8
New Albany	180430008	7/6/2025	15.2	NA
Fishers	180570007	7/6/2025	13.7	4.9
Dale-N Wallace St	181470011	7/6/2025	13.0	3.7

Backward Trajectories

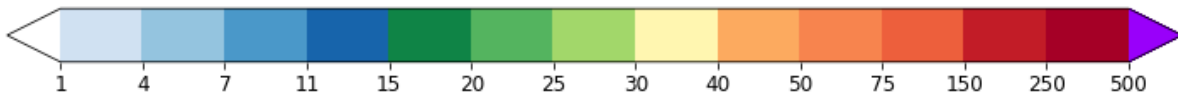
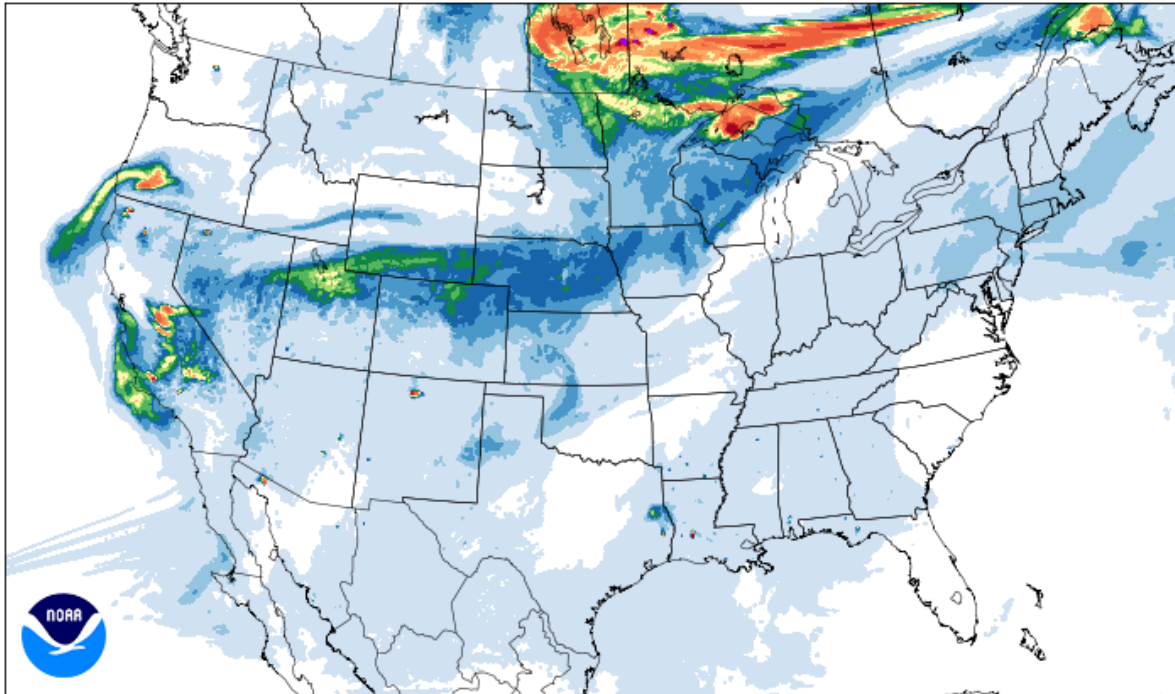


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250706 00 UTC

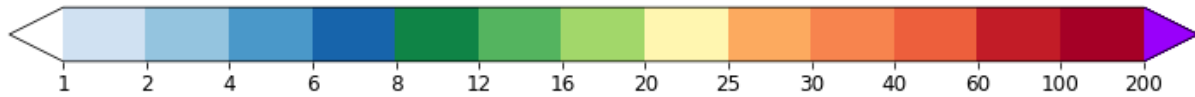
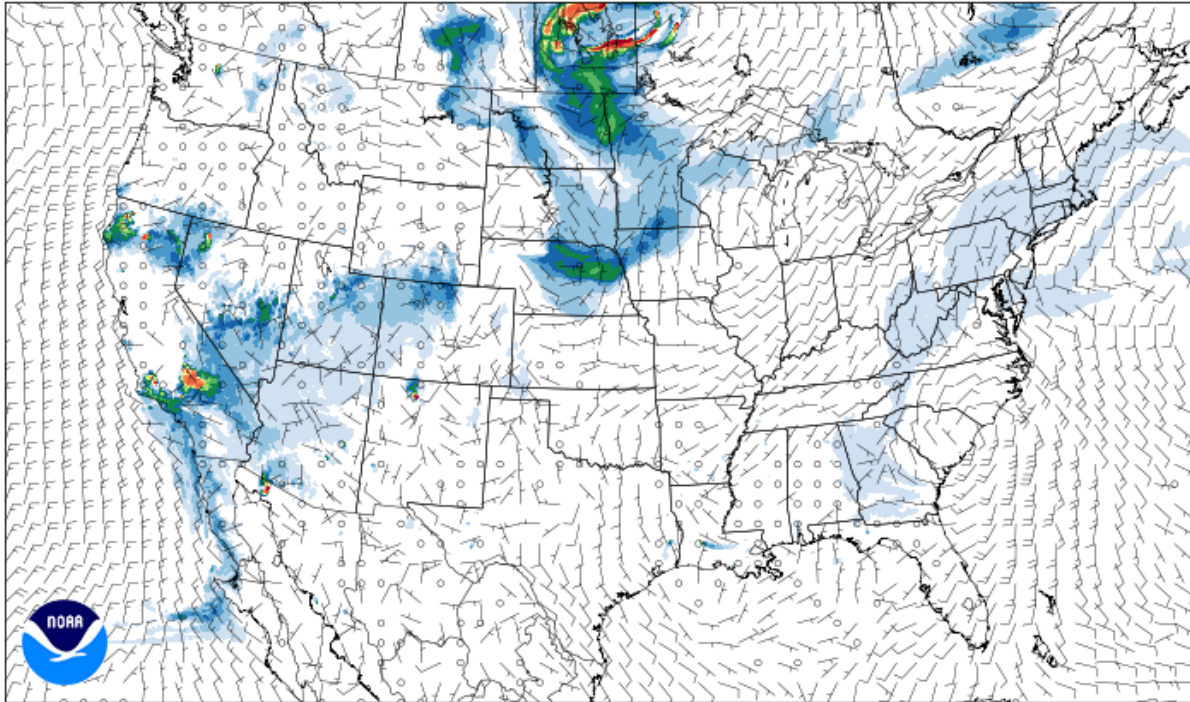
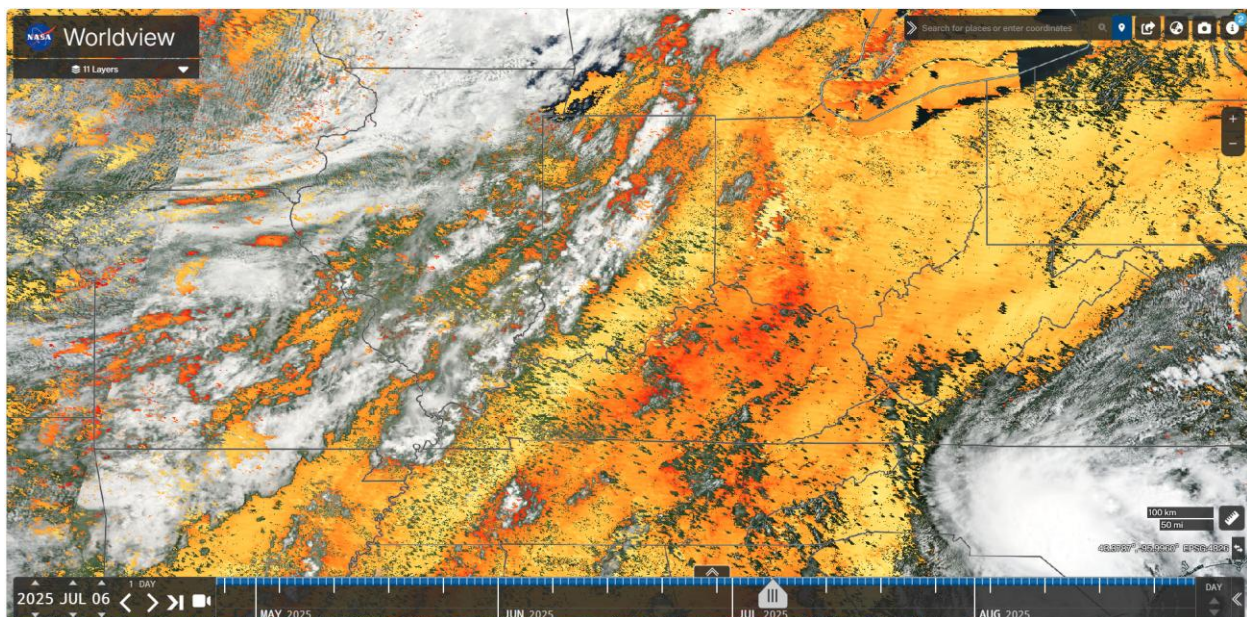
Fcst Hr: 19, Valid Time 20250706 19 UTC



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

HRRR-NCEP: 20250706 00 UTC

Fcst Hr: 14, Valid Time 20250706 14 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1430Z July 6, 2025

SMOKE:

Alaska/Canada/Eastern United States...

Wildfire activity across central Alaska and the Yukon continued to generate large plumes of thick smoke which spread to the west, and north. Fires in the Northwest Territories, Saskatchewan and Manitoba also produced thick smoke which moved to the east into the Atlantic, and spread south over the eastern United States.

New Mexico/Texas...

A plume of thick to moderate smoke was observed in northwestern New Mexico. Light density smoke spread across New Mexico and west Texas, moved east, and merged with the smoke from Alaskan and Canadian fires before continuing to the east.

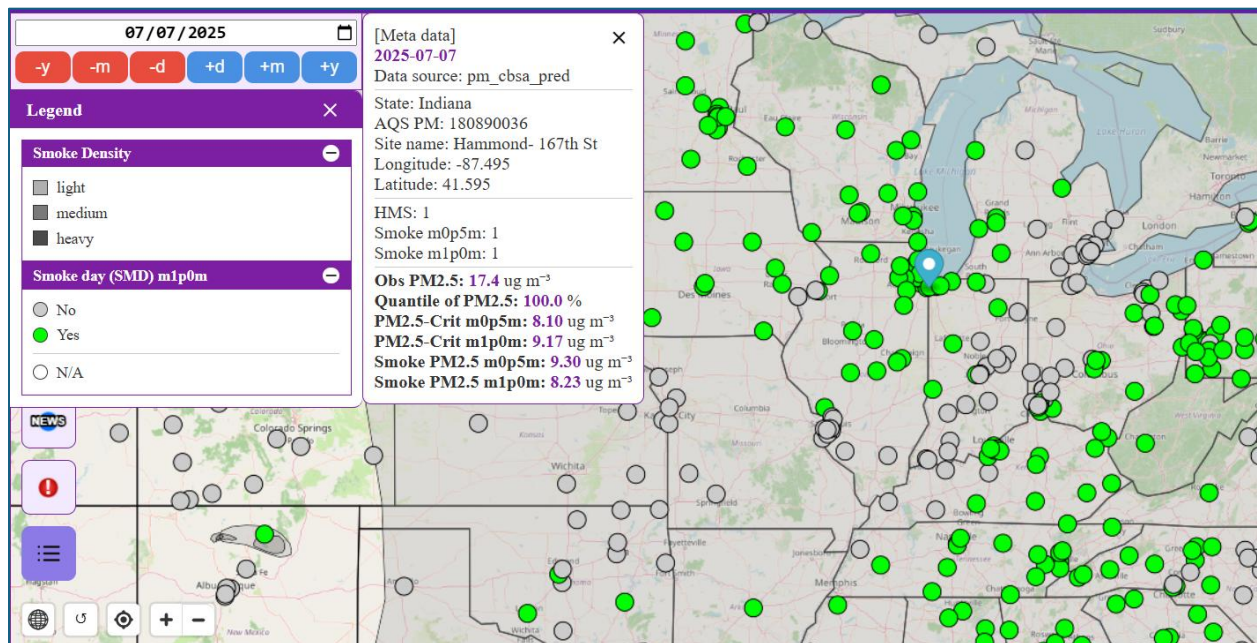
Western United States...

Thick plumes of smoke were seen from fires in northern California and produced a larger area of light smoke that spread northeast, across southern Oregon towards southwest Idaho, and west, over the Pacific.

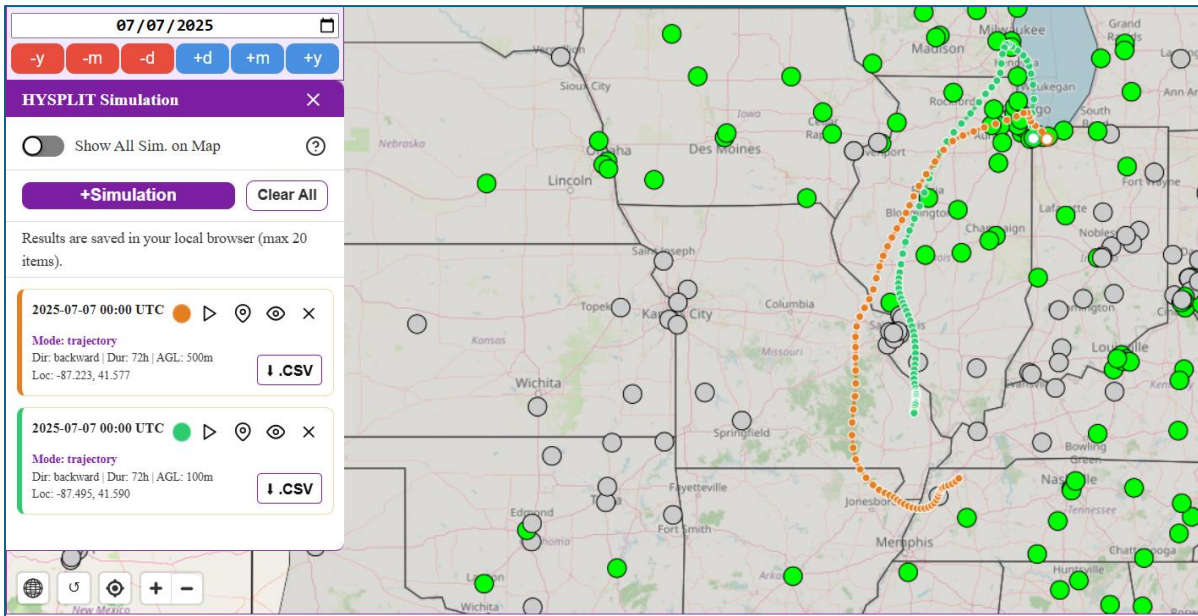
July 7, 2025

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	7/7/2025	17.0	16.2

Smokelyze Smoke Map with Estimated Smoke Concentration

Backward Trajectories

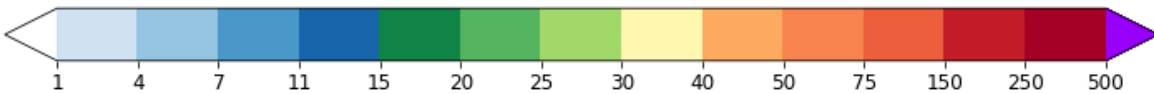
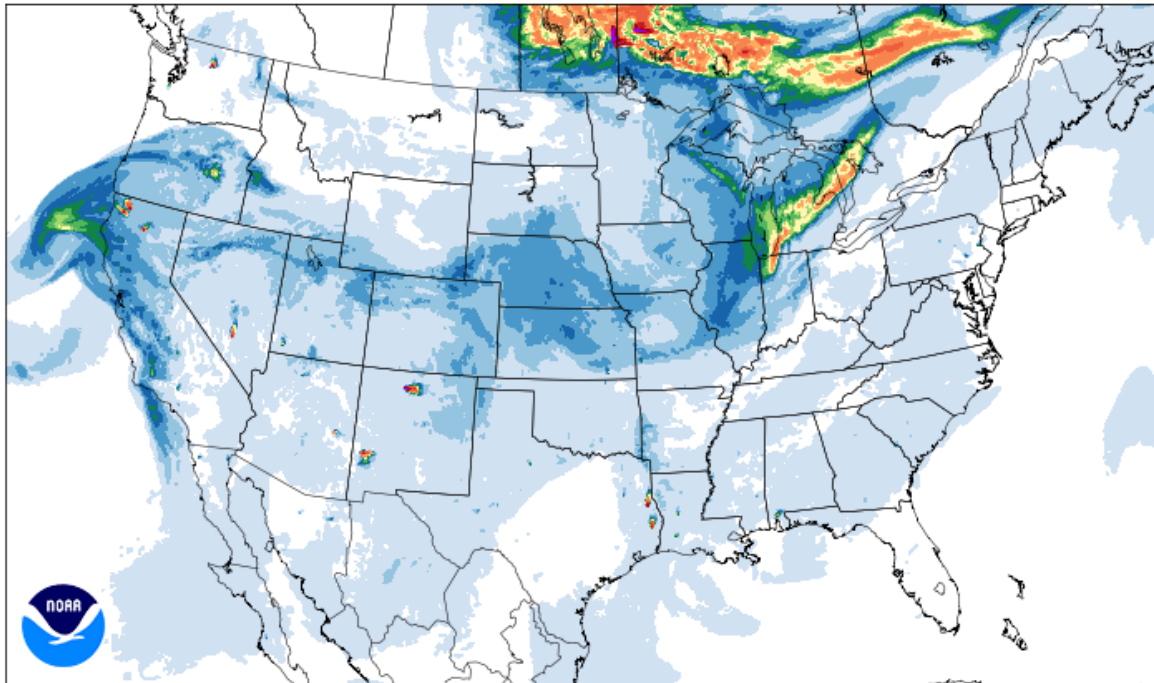


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250707 00 UTC

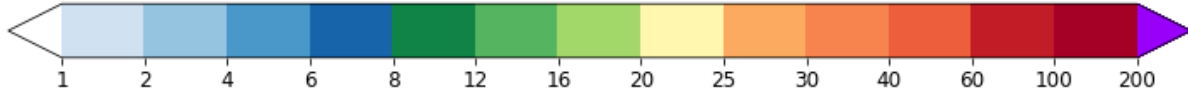
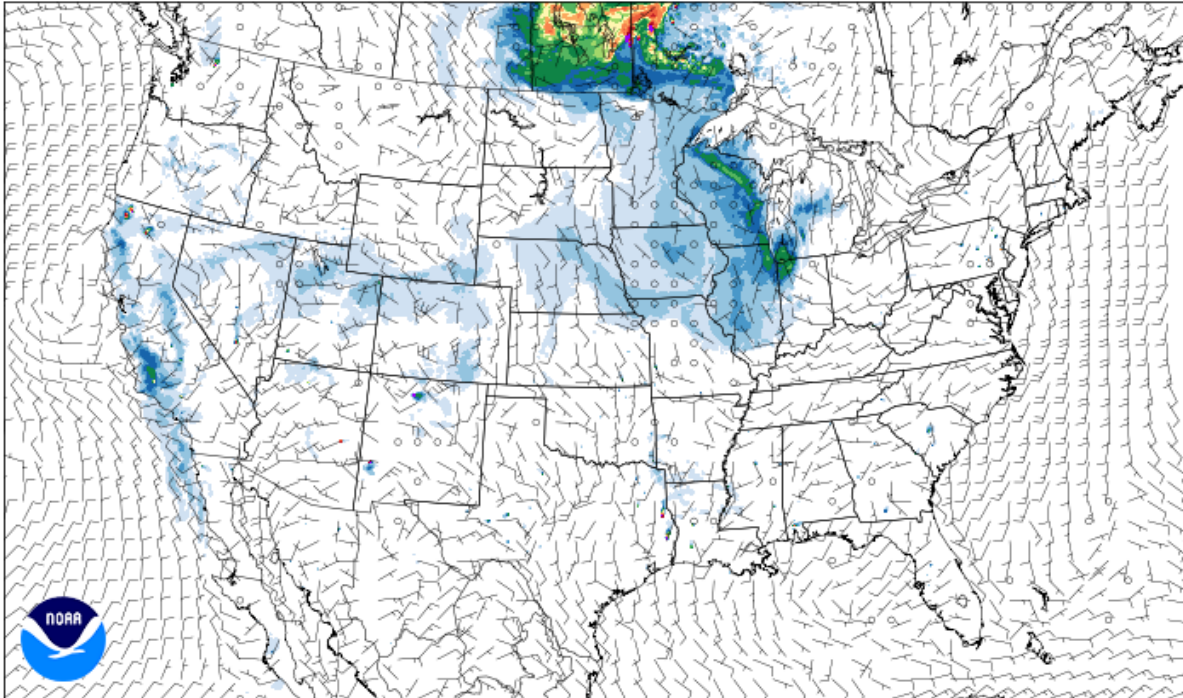
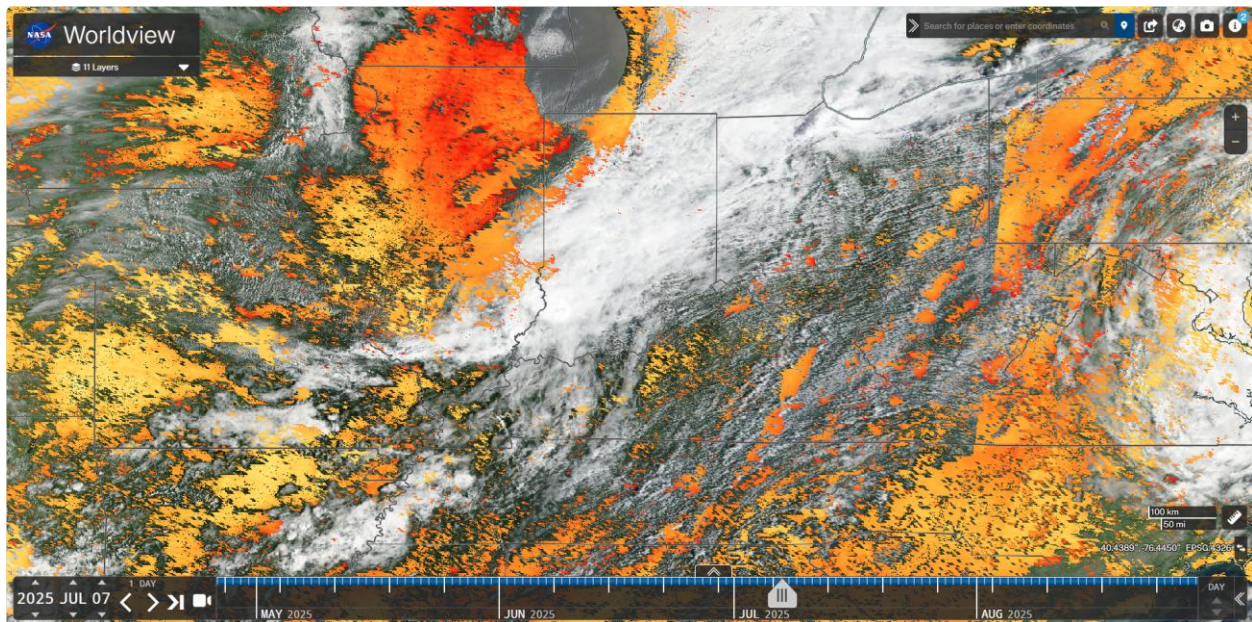
Fcst Hr: 21, Valid Time 20250707 21 UTC



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

HRRR-NCEP: 20250707 00 UTC

Fcst Hr: 20, Valid Time 20250707 20 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0125Z July 7, 2025

SMOKE:

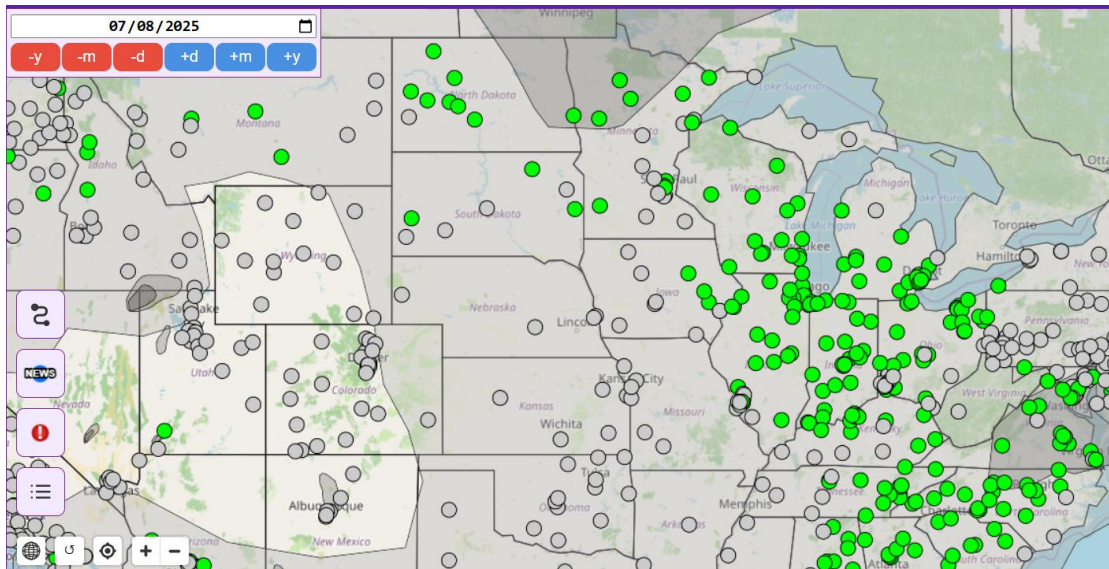
Alaska/Canada/Eastern United States/Atlantic Ocean...

Widespread wildfire activity across Alaska and northwestern and central Canada continued to generate smoke that spread from Alaska and northwestern Canada across the continent into the Atlantic. Moderate to thick smoke plumes were observed across Alaska and northwestern and central Canada. Lighter smoke moved offshore and southward, with some circling back toward the U.S. East Coast and accumulating across the Southeast.

July 8, 2025**PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke**

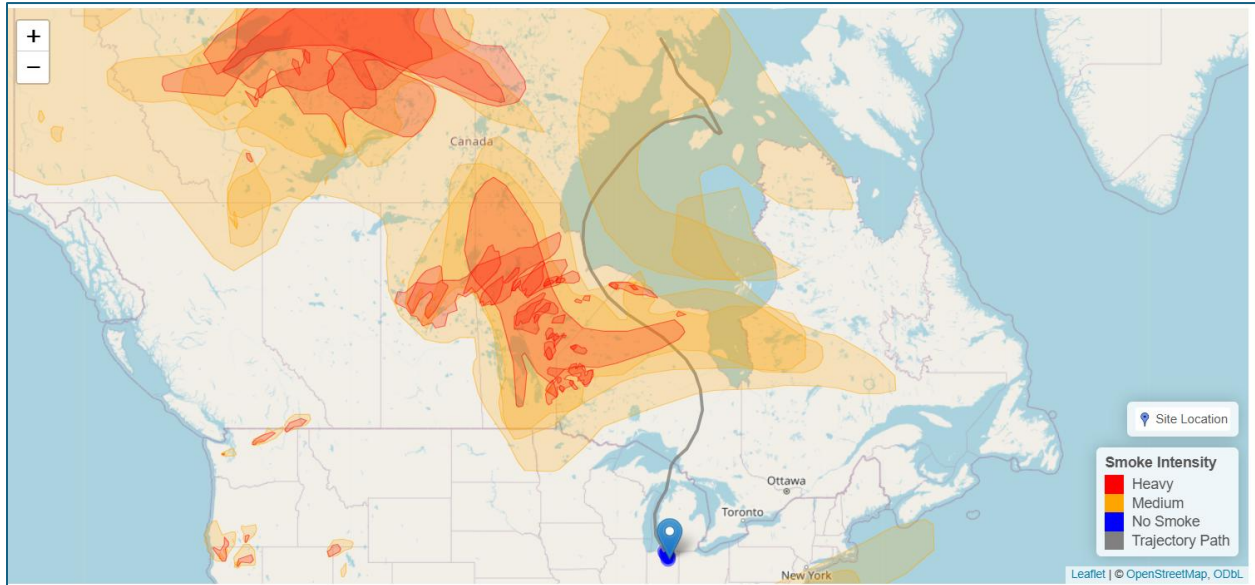
Monitor Name	AQS	Date	Daily Average (µg/m³)	Tier 2 Threshold (µg/m³)
Fort Wayne - Coliseum	180030015	7/8/2025	18.7	18.0
Muncie - Central HS	180350006	7/8/2025	14.1	13.2
Elkhart - Prairie St	180390008	7/8/2025	18.4	16.3
Plummer	180550001	7/8/2025	15.1	13.2
Fishers	180570007	7/8/2025	16.3	13.8
Kokomo - E. Vaile Ave	180670004	7/8/2025	19.9	13.9
East Chicago - Marina	180890034	7/8/2025	20.0	18.0
Hammond-167th St	180890036	7/8/2025	21.2	16.2
Michigan City - Marsh Elem. Sch.	180910011	7/8/2025	20.8	15.9
Anderson - Eastside Elem	180950011	7/8/2025	18.1	15.4
Indianapolis - Washington Park	180970078	7/8/2025	24.1	18.1
Indianapolis - W. 18th St.	180970081	7/8/2025	27.7	24.5
Indianapolis- I-70 E	180970087	7/8/2025	24.4	20.5
Bloomington - Binford	181050003	7/8/2025	17.4	12.8
Ogden Dunes	181270024	7/8/2025	19.5	15.3
South Bend - Shields Dr.	181410015	7/8/2025	20.4	16.9
Dale-N Wallace St	181470011	7/8/2025	15.5	13.0
Lafayette - Greenbush St	181570008	7/8/2025	17.9	15.1
Larwill	181830003	7/8/2025	27.0	15.0

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	7/8/2025	18.7	9.4
Muncie - Central HS	180350006	7/8/2025	14.1	6.0
Elkhart - Prairie St	180390008	7/8/2025	18.4	7.5
Plummer	180550001	7/8/2025	15.1	4.4
Fishers	180570007	7/8/2025	16.3	7.5
Kokomo - E. Vaile Ave	180670004	7/8/2025	19.9	12.9
East Chicago - Marina	180890034	7/8/2025	20.0	10.7
Hammond-167th St	180890036	7/8/2025	21.2	12.7
Michigan City - Marsh Elem. Sch.	180910011	7/8/2025	20.8	11.0
Anderson - Eastside Elem	180950011	7/8/2025	18.1	10.0
Indianapolis - Washington Park	180970078	7/8/2025	24.1	14.6
Indianapolis - W. 18th St.	180970081	7/8/2025	27.7	18.0
Indianapolis- I-70 E	180970087	7/8/2025	24.4	14.2
Bloomington - Binford	181050003	7/8/2025	17.4	8.0
Ogden Dunes	181270024	7/8/2025	19.5	8.7
South Bend - Shields Dr.	181410015	7/8/2025	20.4	9.2
Dale-N Wallace St	181470011	7/8/2025	15.5	5.9
Lafayette - Greenbush St	181570008	7/8/2025	17.9	10.3
Larwill	181830003	7/8/2025	27.0	20.3

Backward Trajectories

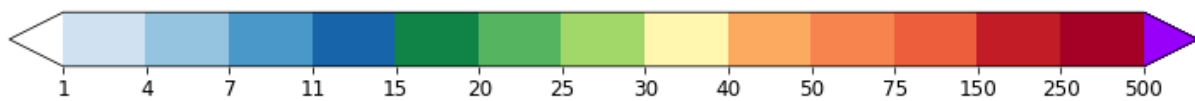
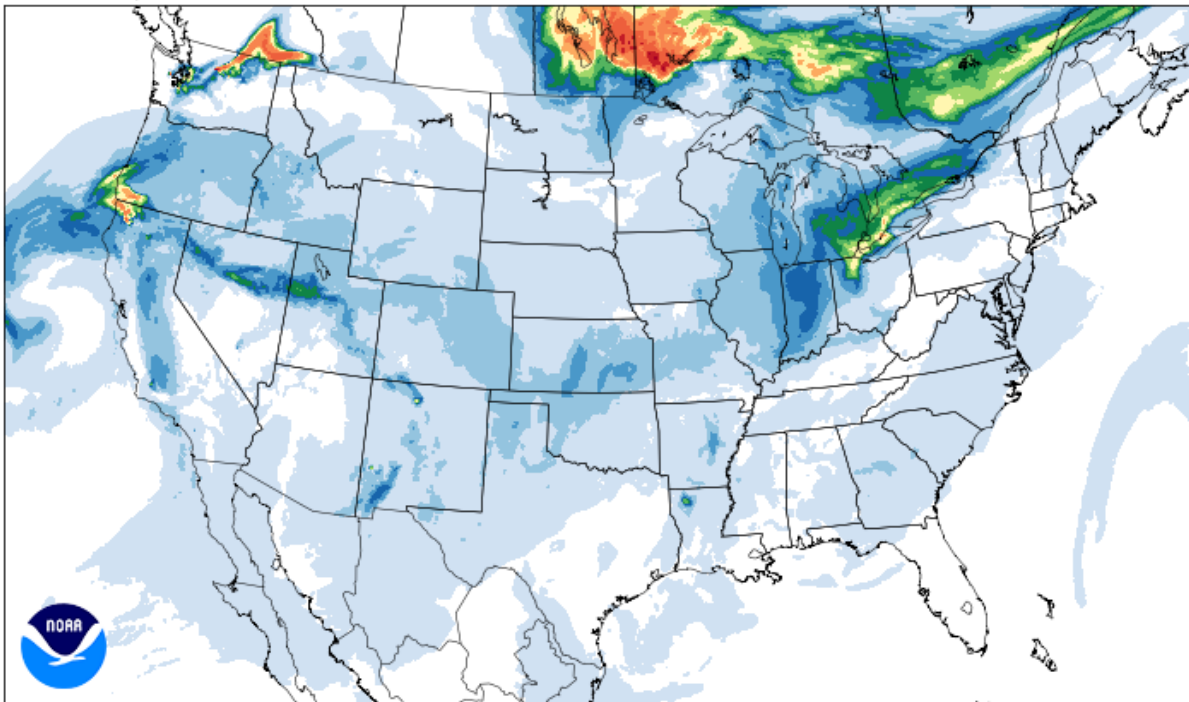


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250708 00 UTC

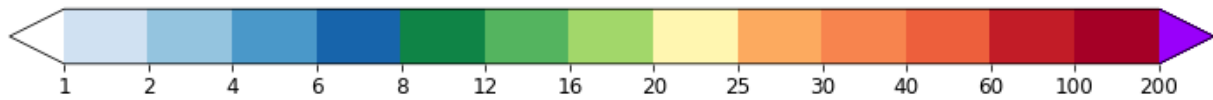
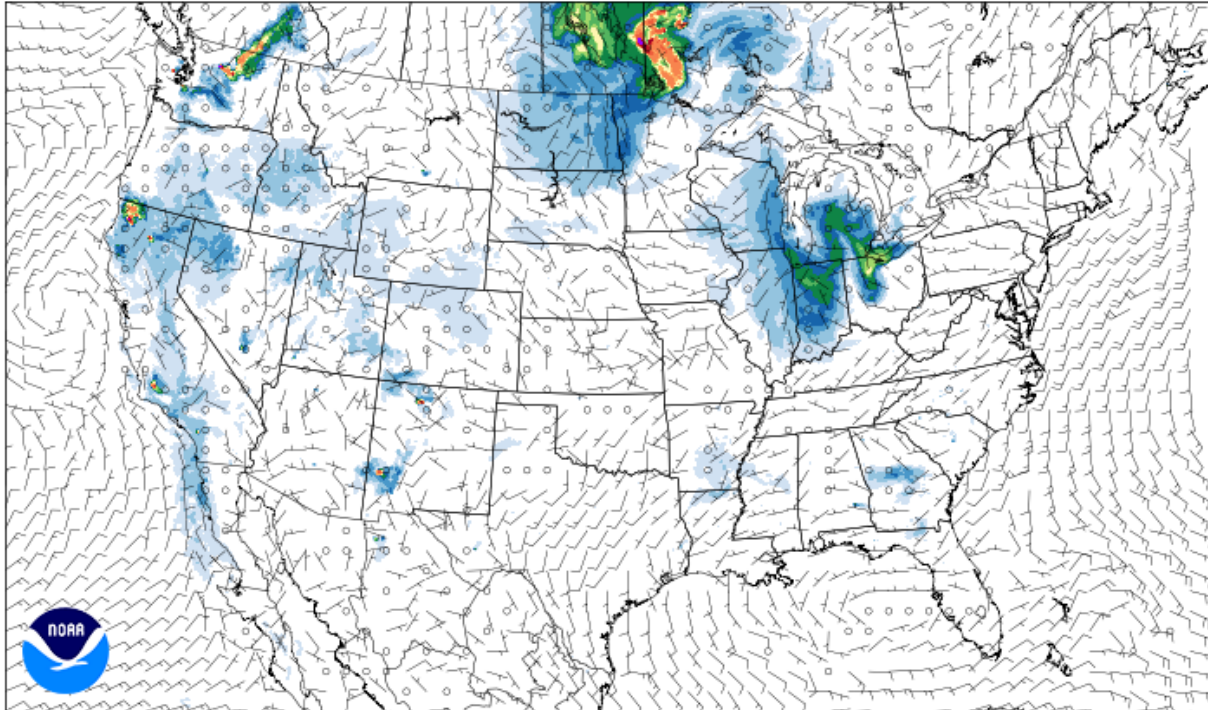
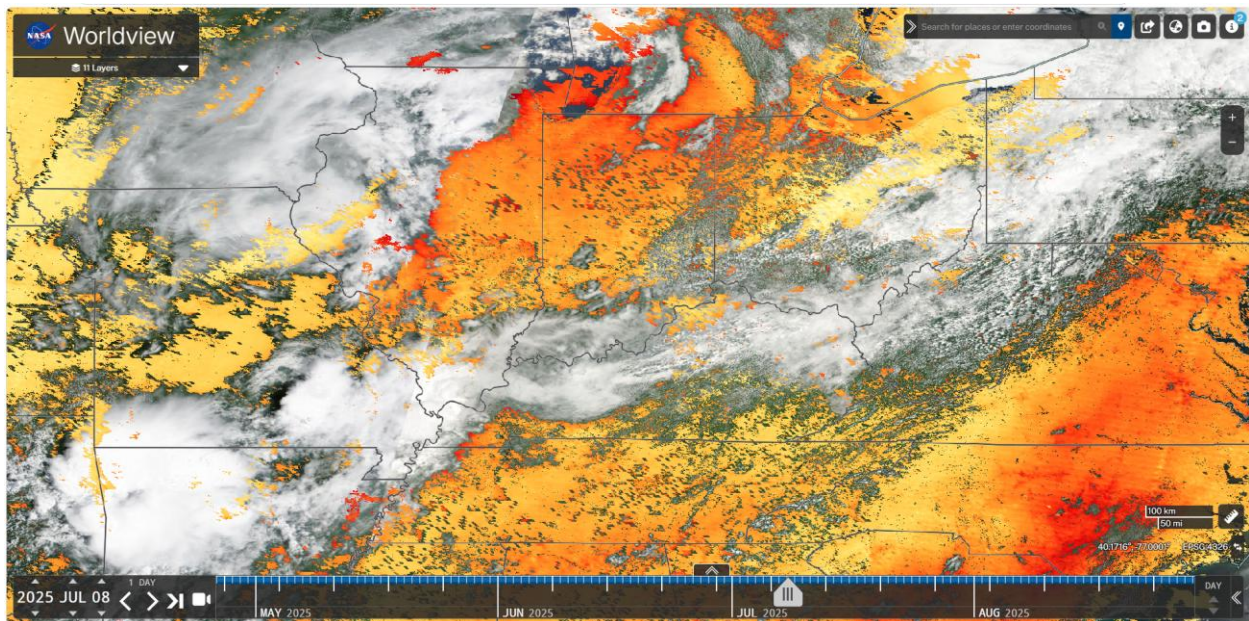
Fcst Hr: 12, Valid Time 20250708 12 UTC



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

HRRR-NCEP: 20250708 00 UTC

Fcst Hr: 15, Valid Time 20250708 15 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 2330Z July 8, 2025

SMOKE:

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

Wildfire activity throughout Alaska, the Yukon and Northwest Territories, and Saskatchewan, Manitoba and Ontario continued to generate large areas of moderate to thick smoke which spread from the Bering Sea to the Atlantic. Lighter smoke moved east offshore in the Atlantic.

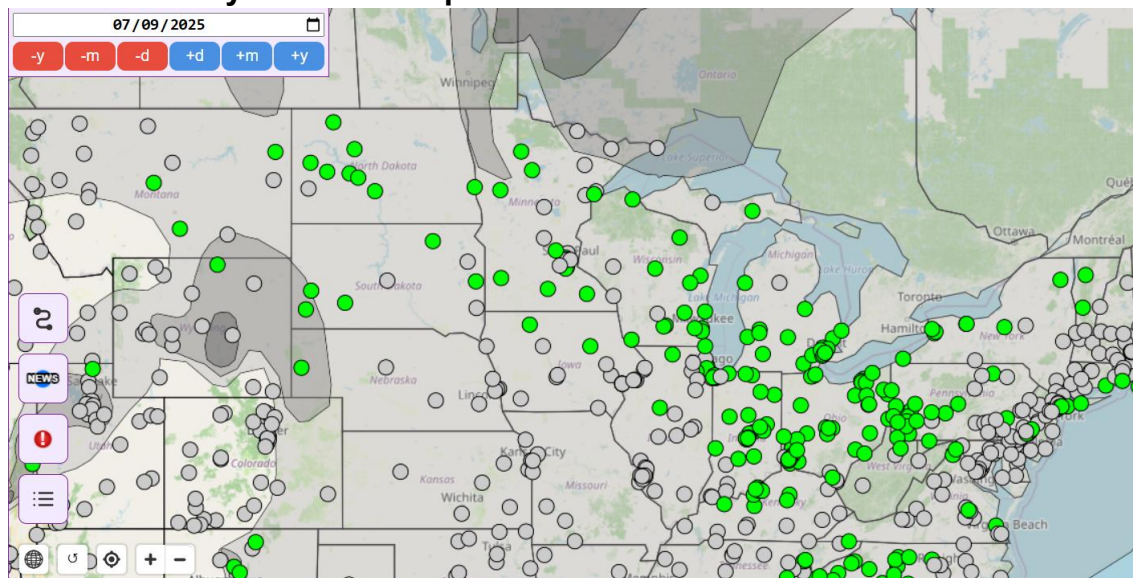
California and Pacific Northwest...

Fires in northern California and the Olympic Peninsula in Washington State continued to produced thick plumes of smoke.

July 9, 2025

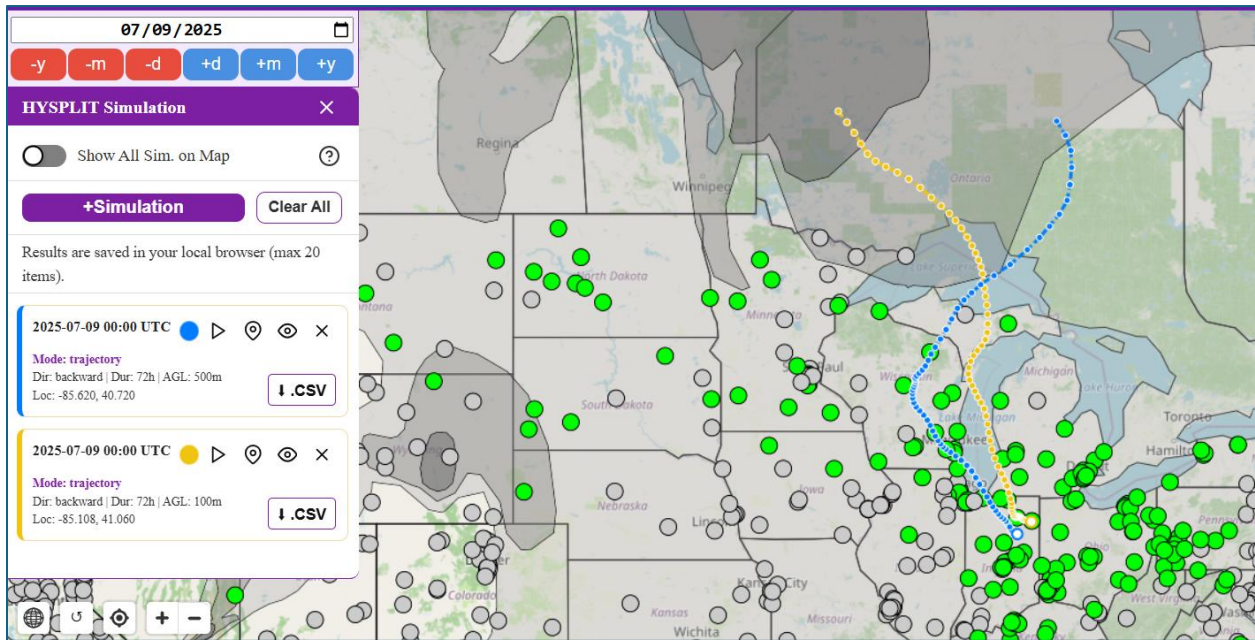
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Fort Wayne - Coliseum	180030015	7/9/2025	23.8	18
Fishers	180570007	7/9/2025	14.9	13.8

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor Name	AQS	Date	Daily Average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
Fort Wayne - Coliseum	180030015	7/9/2025	23.8	14.5
Fishers	180570007	7/9/2025	14.9	6.1

Backward Trajectories

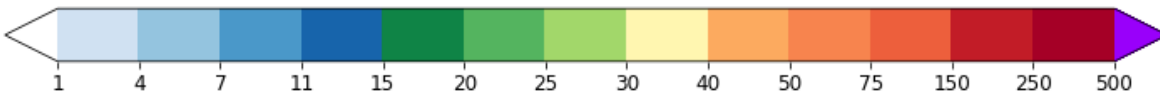
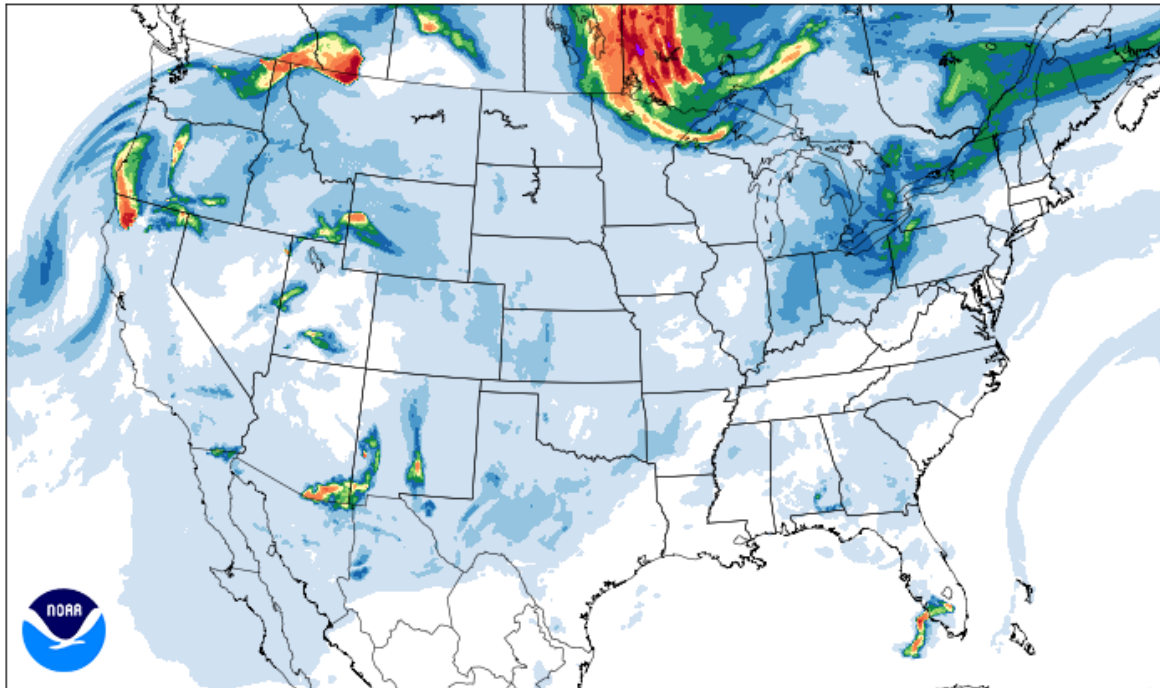


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250709 00 UTC

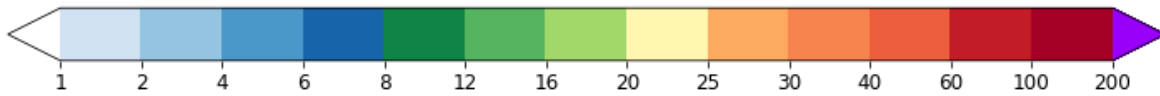
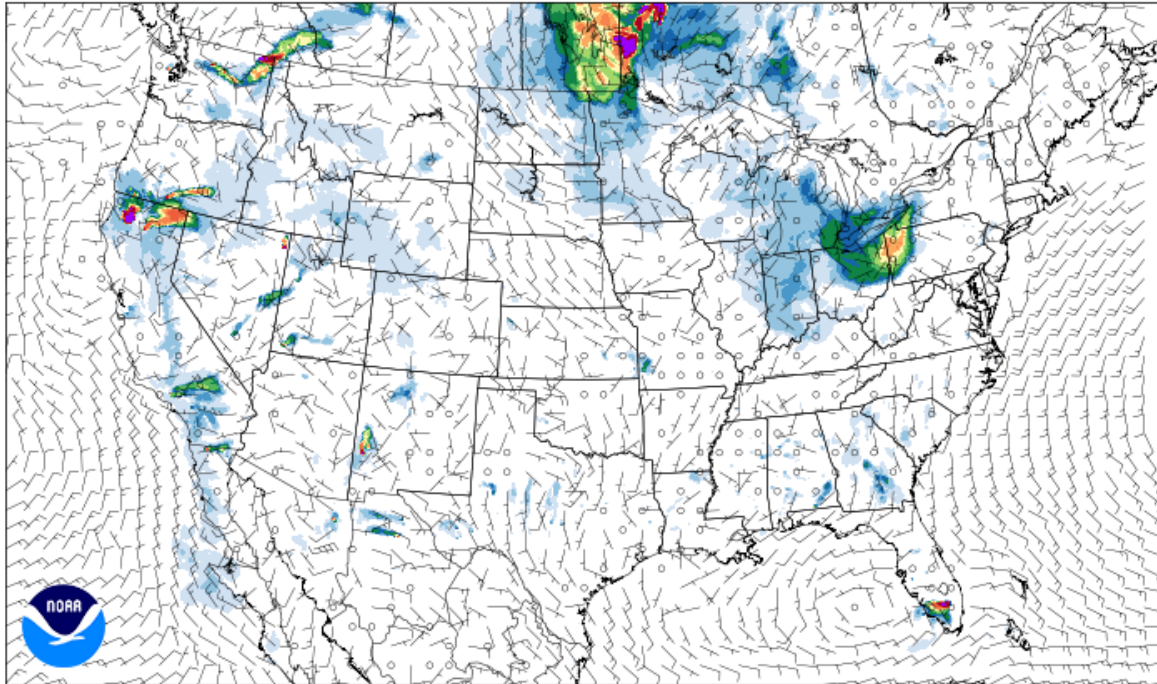
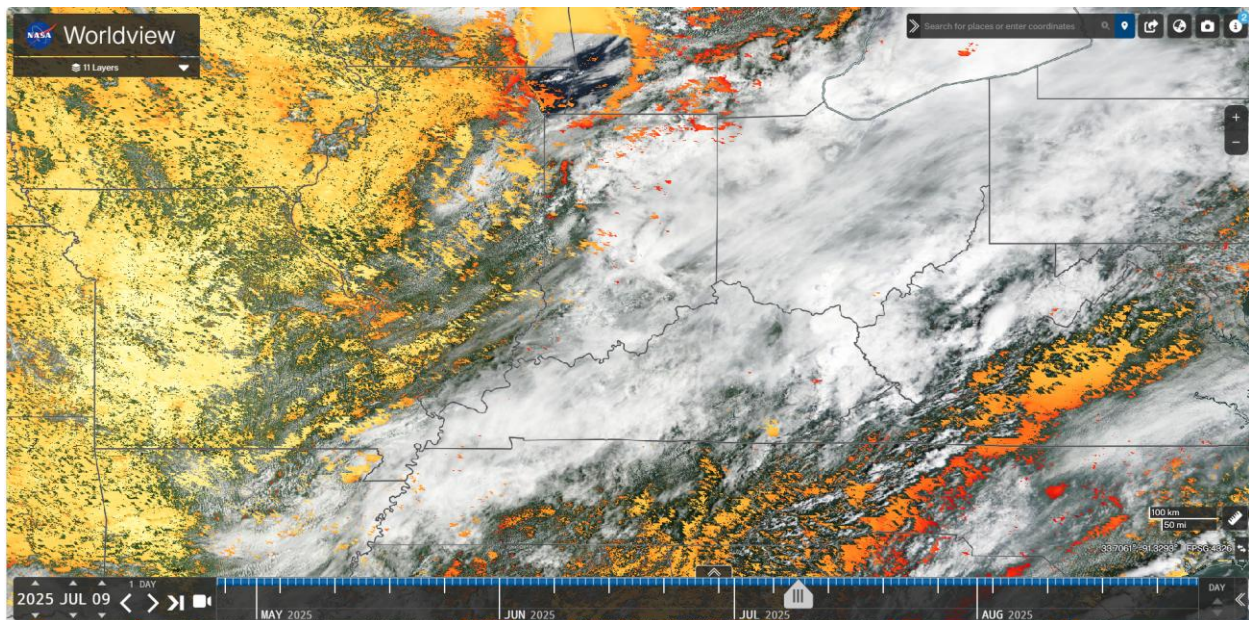
Fcst Hr: 6, Valid Time 20250709 06 UTC



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

HRRR-NCEP: 20250709 00 UTC

Fcst Hr: 5, Valid Time 20250709 05 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1550Z July 9, 2025

SMOKE:

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

Wildfire activity throughout Alaska, northwestern and Central Canada was producing a widespread area of smoke that covered most of Canada, the Northern Plains and the Eastern United States. Several locations within this area had moderate to high density smoke, including much of Central Canada and extending as far east as southern Quebec and also from the Northwest Territories extending northeast towards portions of the Arctic Ocean.

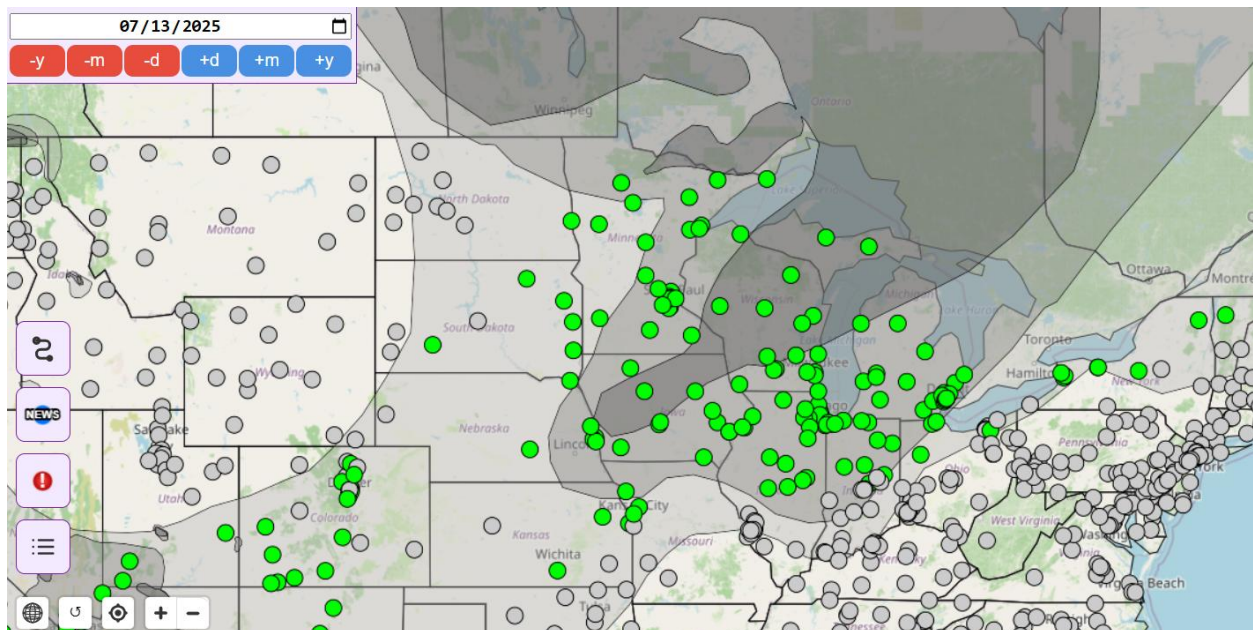
Western United States....

Fire activity over portions of Nevada, northern California and southern Oregon were producing areas of smoke that were extending northeast and merging with smoke, from the Canadian fires, over southern Canada and the Northern Plains. Moderate to locally dense smoke from this activity was located over western South Dakota, western Nebraska and Wyoming and further north over southern Saskatchewan.

July 13, 2025

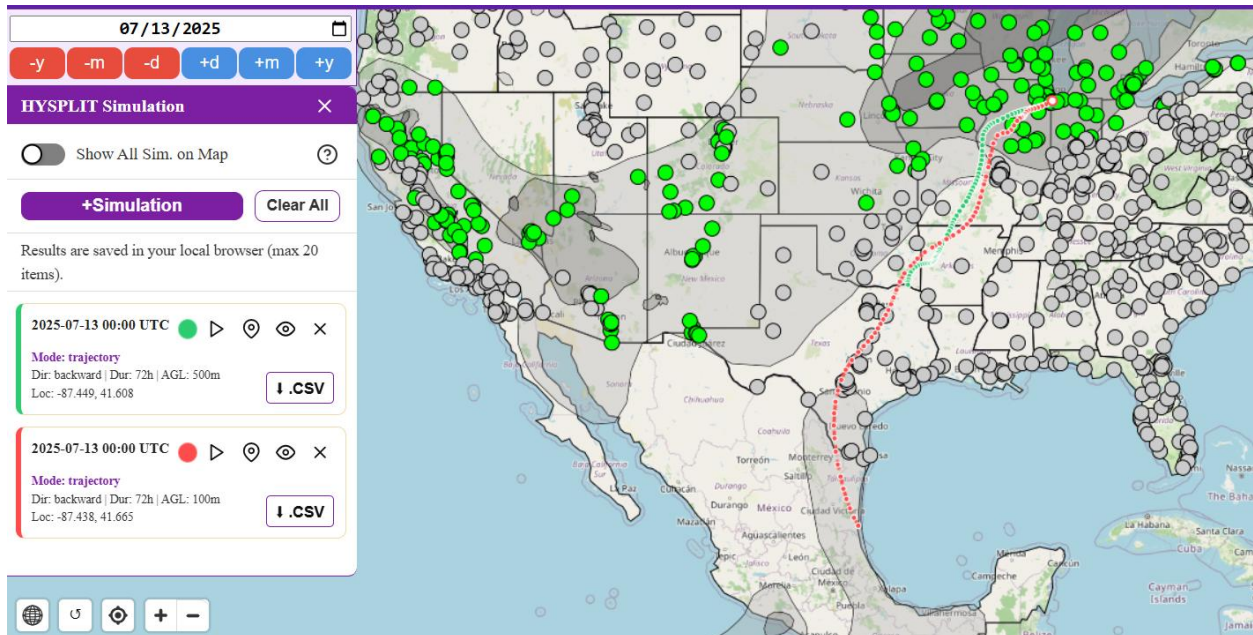
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Elkhart - Prairie St	180390008	7/13/2025	17.8	16.3
East Chicago - Marina	180890034	7/13/2025	18.6	18
Hammond-167th St	180890036	7/13/2025	20.8	16.2
Michigan City - Marsh Elem. Sch.	180910011	7/13/2025	18.8	15.9
Ogden Dunes	181270024	7/13/2025	17.3	15.3
Larwill	181830003	7/13/2025	17.9	15

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Elkhart - Prairie St	180390008	7/13/2025	17.8	6.9
East Chicago - Marina	180890034	7/13/2025	18.6	9.3
Hammond-167th St	180890036	7/13/2025	20.8	11.6
Michigan City - Marsh Elem. Sch.	180910011	7/13/2025	18.8	9.0
Ogden Dunes	181270024	7/13/2025	17.3	6.5
Larwill	181830003	7/13/2025	17.9	11.2

Backward Trajectories

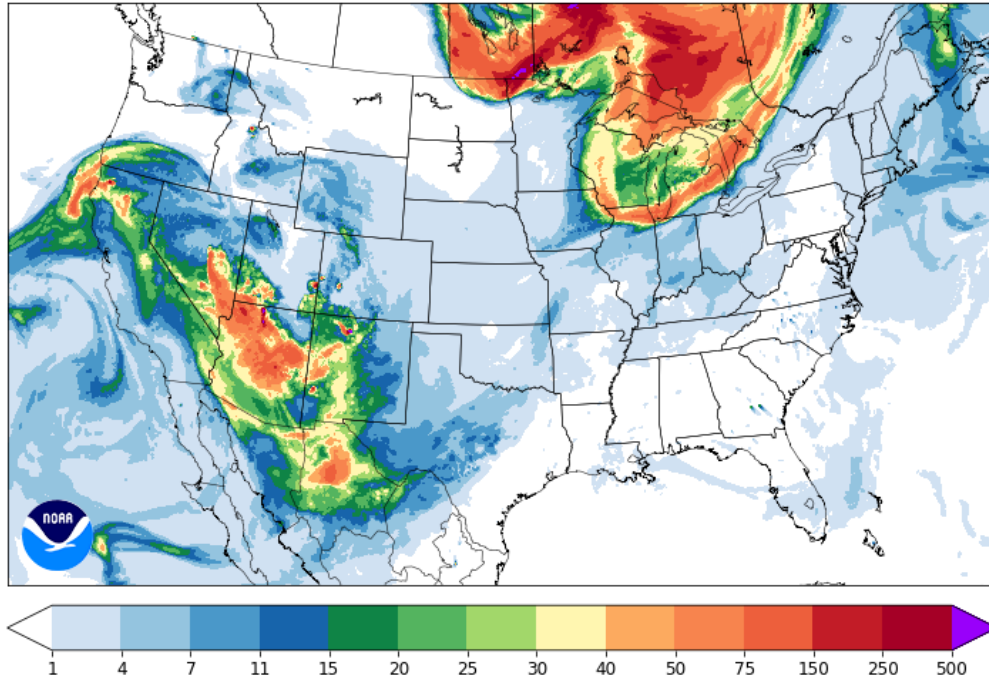


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250713 00 UTC

Fcst Hr: 18, Valid Time 20250713 18 UTC

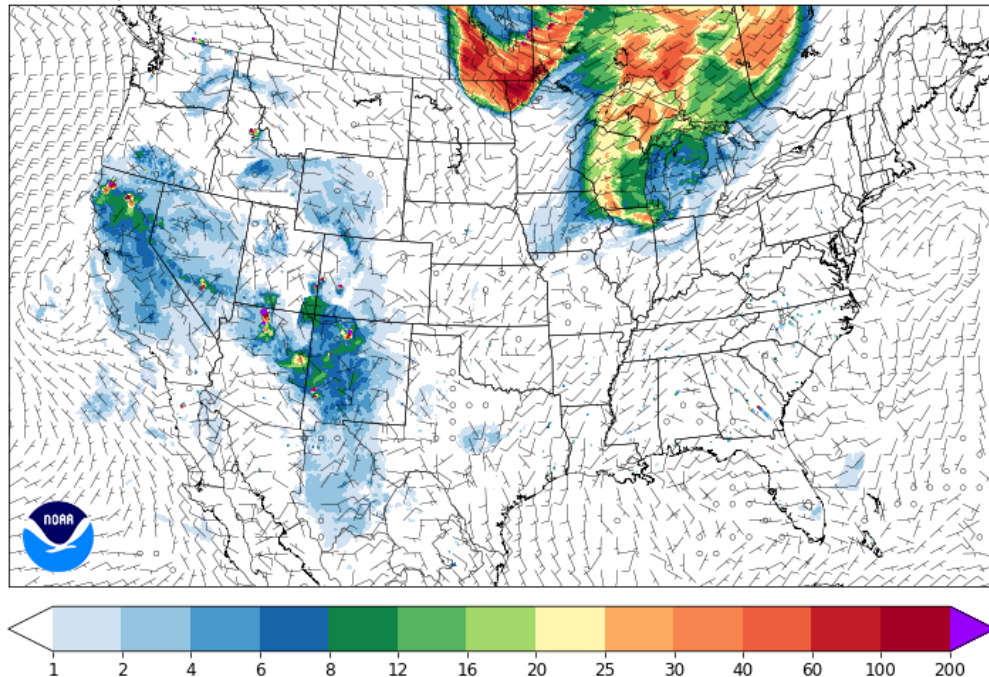


HRRR Smoke – Near Surface Smoke

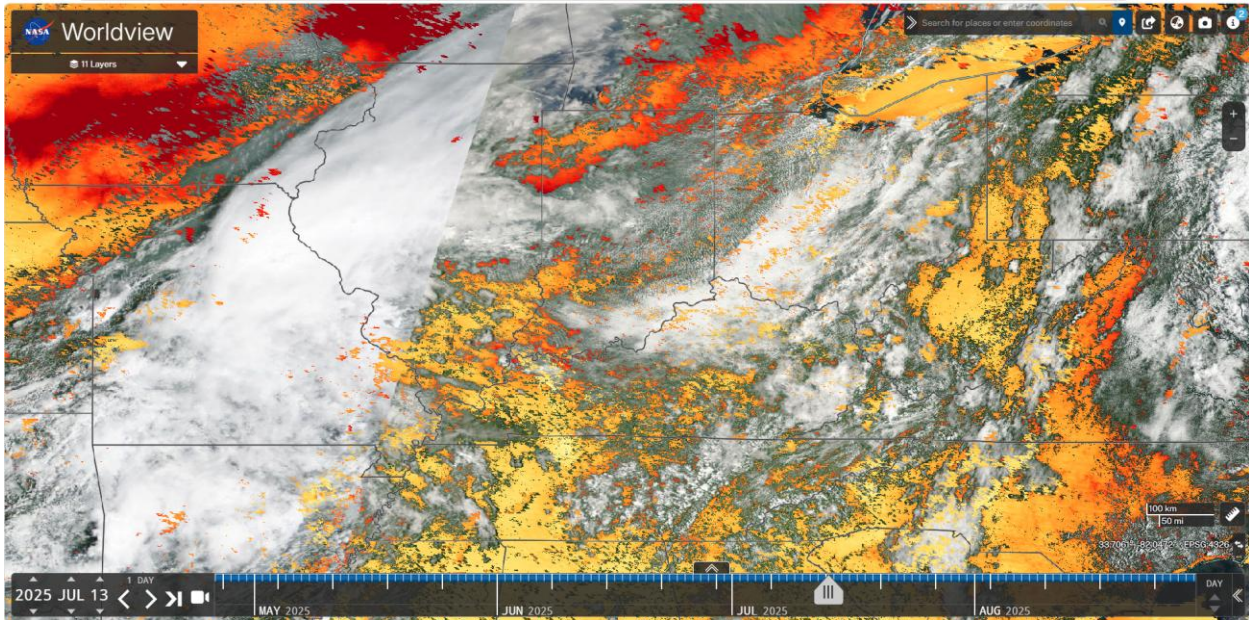
Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250713 00 UTC

Fcst Hr: 20, Valid Time 20250713 20 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 0100Z July 13, 2025

SMOKE:

Alaska/Canada/North-Central United States/Atlantic Ocean...

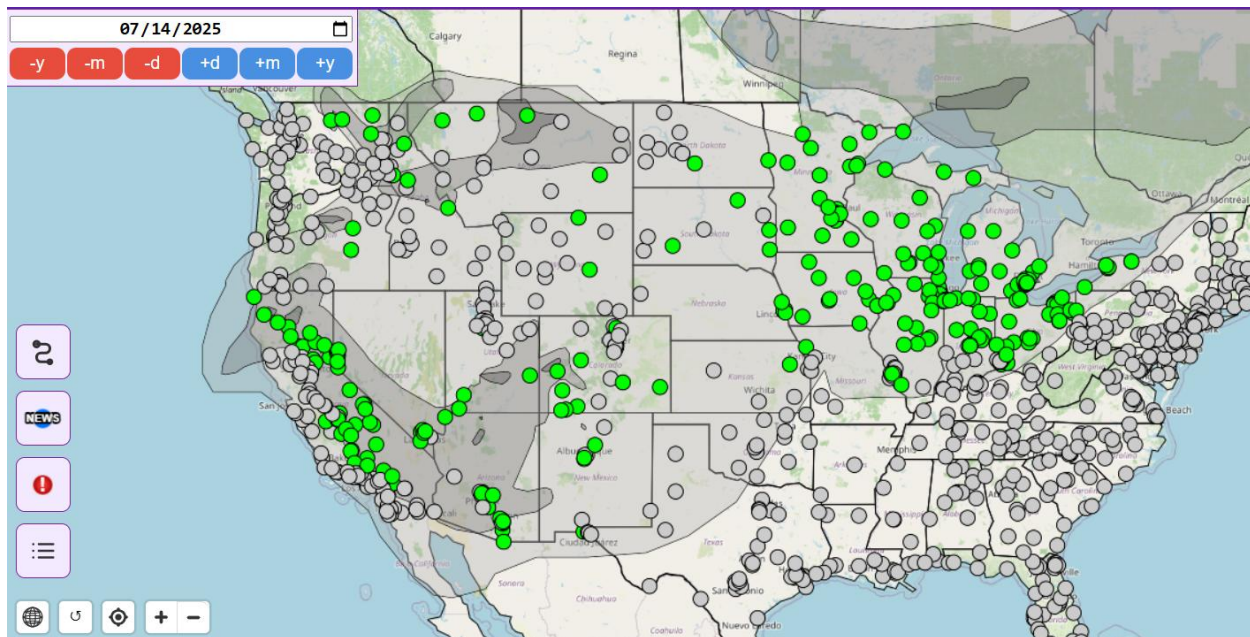
Wildfire activity today is mainly analyzed across two areas: Alaska and central Saskatchewan/Manitoba. In addition to these two areas, a large wildfire along the BC/NW Territory border is also analyzed. From these fires, thick smoke is being produced. Smoke from a majority of the fire activity is moving east-southeast to east from the parent activity. The smoke is then moving around a cyclone over western Ontario, both moving east-northeast over northern Alberta Hudson Bay, Baffin Island, and far northern Quebec, and moving southeast into the Upper Midwest and the Great Lakes. The southern stream is becoming incorporated into the cyclone, which is helping to concentrate the smoke over western Ontario. Some smoke is also seen moving northward around the cyclone over eastern Ontario, James Bay, and southern Quebec. These two streams meet up over Labrador,

from where the smoke then bifurcates again, with some smoke moving into Greenland and some over Newfoundland. The smoke over Greenland then dives back southward and moves out over the open North Atlantic. From here, smoke becomes lighter and begins to move northward toward Iceland.

July 14, 2025

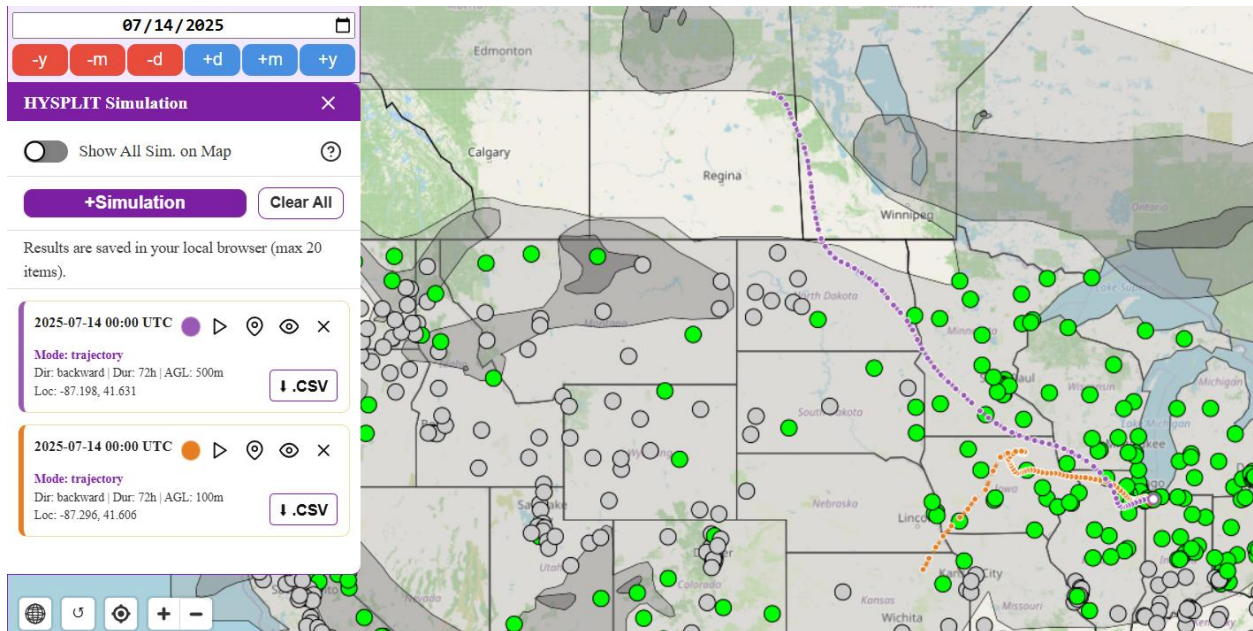
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Fort Wayne - Coliseum	180030015	7/14/2025	29.4	18
Muncie - Central HS	180350006	7/14/2025	19.5	13.2
Elkhart - Prairie St	180390008	7/14/2025	36.4	16.3
Fishers	180570007	7/14/2025	14.3	13.8
East Chicago - Marina	180890034	7/14/2025	36.0	18
Hammond-167th St	180890036	7/14/2025	38.2	16.2
Michigan City - Marsh Elem. Sch.	180910011	7/14/2025	34.9	15.9
Ogden Dunes	181270024	7/14/2025	34.0	15.3
South Bend - Shields Dr.	181410015	7/14/2025	32.3	16.9
Larwill	181830003	7/14/2025	33.2	15

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor Name	AQS	Date	Daily Average ($\mu\text{g}/\text{m}^3$)	GAM Estimated Smoke ($\mu\text{g}/\text{m}^3$)
Fort Wayne - Coliseum	180030015	7/14/2025	29.4	20.1
Muncie - Central HS	180350006	7/14/2025	19.5	11.4
Elkhart - Prairie St	180390008	7/14/2025	36.4	25.5
Fishers	180570007	7/14/2025	14.3	5.5
East Chicago - Marina	180890034	7/14/2025	36.0	26.7
Hammond-167th St	180890036	7/14/2025	38.2	29.0
Michigan City - Marsh Elem. Sch.	180910011	7/14/2025	34.9	25.1
Ogden Dunes	181270024	7/14/2025	34.0	23.2
South Bend - Shields Dr.	181410015	7/14/2025	32.3	21.1
Larwill	181830003	7/14/2025	33.2	26.5

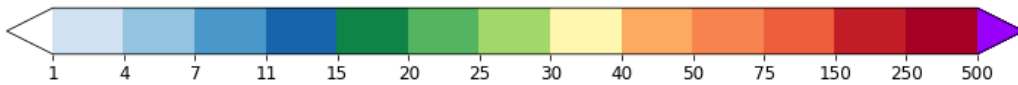
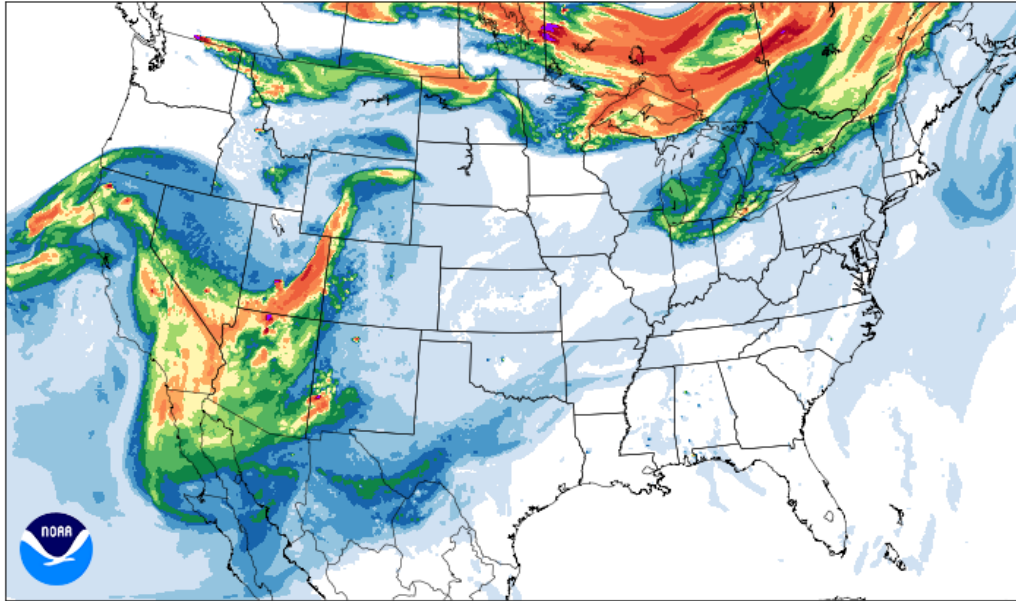
Backward Trajectories



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

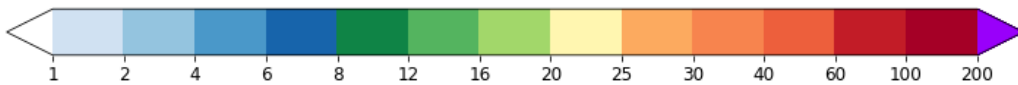
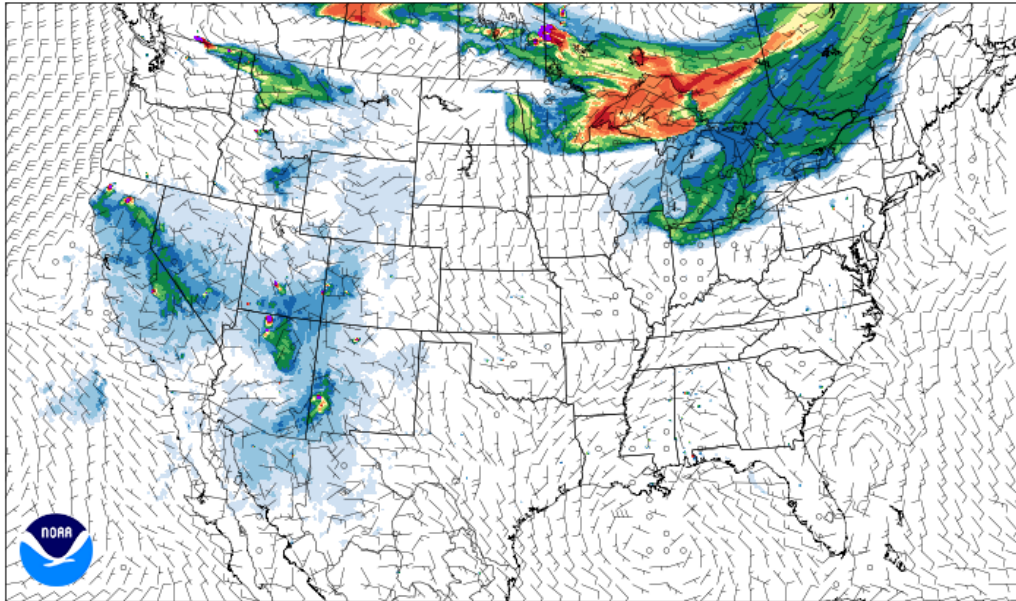
HRRR-NCEP: 20250714 00 UTC

Fcst Hr: 19, Valid Time 20250714 19 UTC

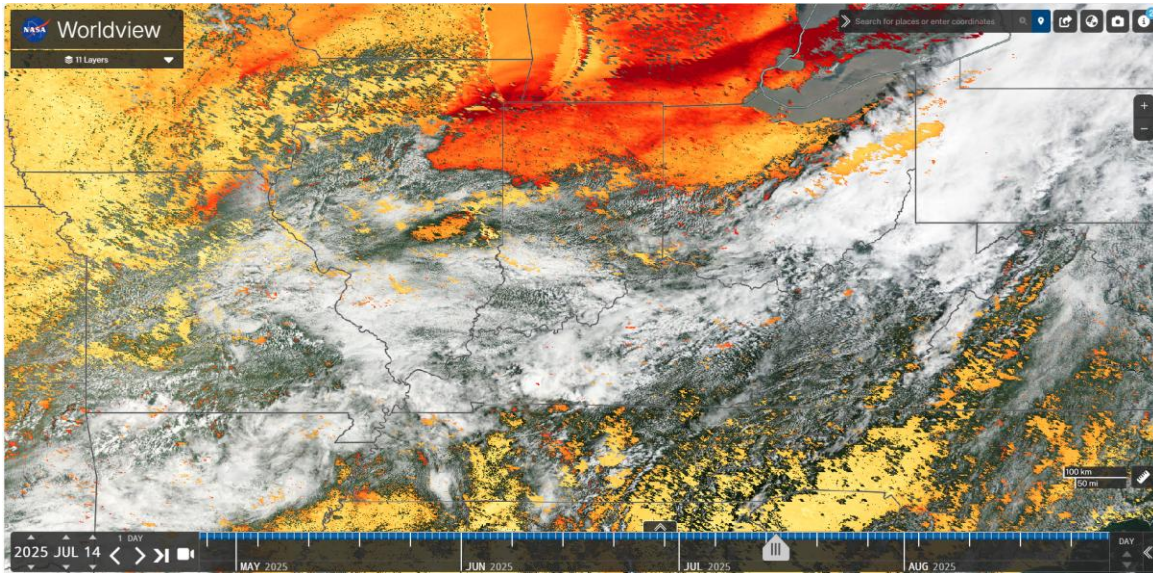
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250714 00 UTC

Fcst Hr: 20, Valid Time 20250714 20 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1430Z July 14, 2025

SMOKE:

Alaska/Canada/Great Lakes/Atlantic Ocean...

Wildfires continued to burn across Northwestern Alaska, Northwestern and Central Canada, with widespread smoke dispersing eastward across northern Alaska, the majority of Canada with the exception of the western coast, the Great Lakes region and parts of the Northern Atlantic. Areas of higher smoke concentration were found along the Northwest Territories, Northeastern British Columbia, Southern Ontario and Central Quebec.

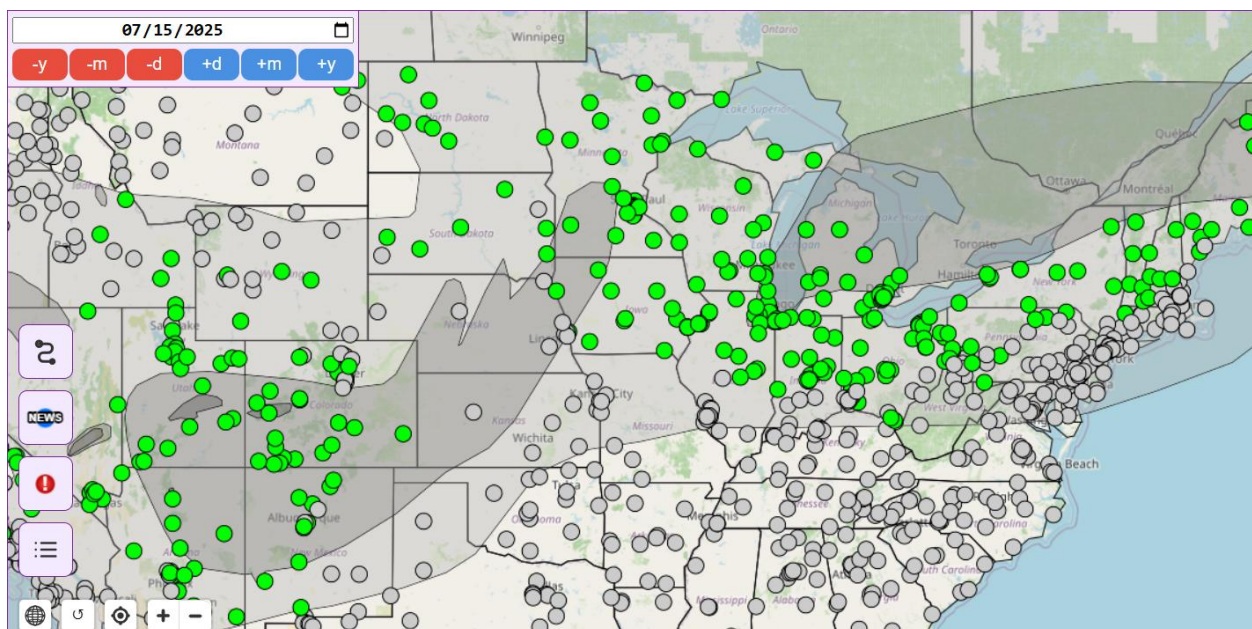
Western and North-Central U.S...

Several wildfires in Southern British Columbia, Northern California, Northern Arizona, and Western Colorado were spreading light-to-moderate density smoke across most of the Western and North-Central U.S., with higher concentrations found around Northern Arizona, Southeastern Utah and Northern Montana.

July 15, 2025

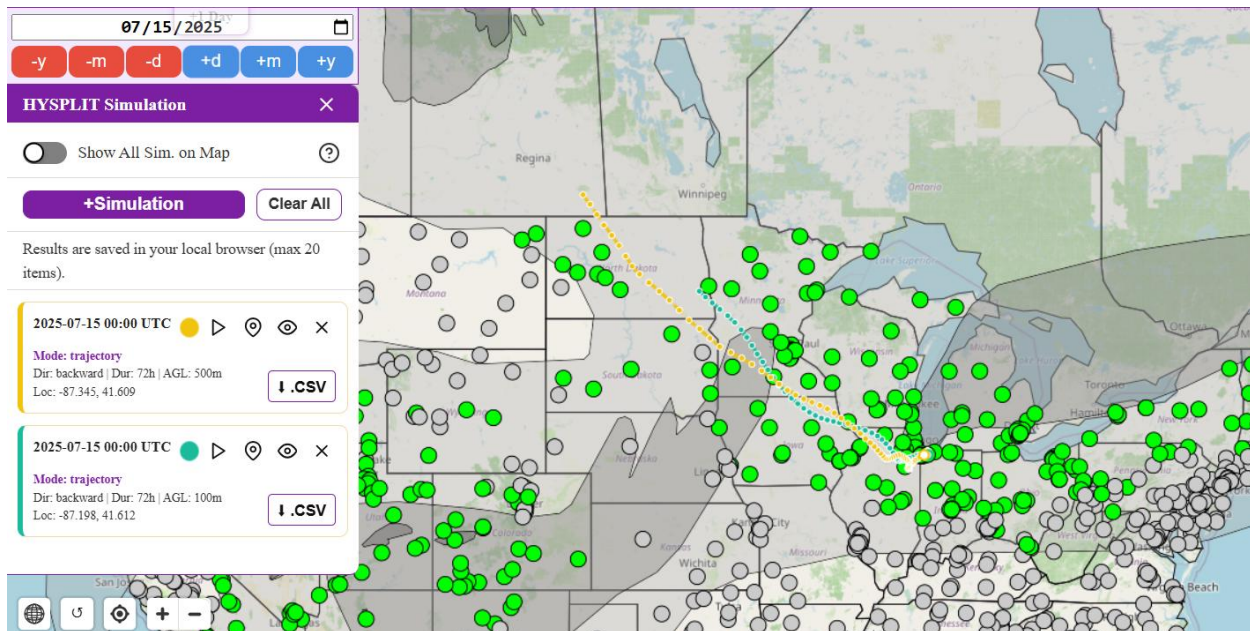
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Fort Wayne - Coliseum	180030015	7/15/2025	29.1	18
Muncie - Central HS	180350006	7/15/2025	13.9	13.2
Elkhart - Prairie St	180390008	7/15/2025	25.6	16.3
East Chicago - Franklin/Washington Sch	180890006	7/15/2025	17.9	16.1
Gary - Madison St	180890031	7/15/2025	19.1	16
East Chicago - Marina	180890034	7/15/2025	18.1	18
Hammond-167th St	180890036	7/15/2025	19.2	16.2
Michigan City - Marsh Elem. Sch.	180910011	7/15/2025	18.9	15.9
Ogden Dunes	181270024	7/15/2025	21.5	15.3
South Bend - Shields Dr.	181410015	7/15/2025	21.6	16.9
Larwill	181830003	7/15/2025	21.4	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	7/15/2025	29.1	19.8
Muncie - Central HS	180350006	7/15/2025	13.9	7.4
Elkhart - Prairie St	180390008	7/15/2025	25.6	14.8
East Chicago - Franklin/Washington Sch	180890006	7/15/2025	17.9	8.6
Gary - Madison St	180890031	7/15/2025	19.1	9.8
East Chicago - Marina	180890034	7/15/2025	18.1	9.8
Hammond-167th St	180890036	7/15/2025	19.2	9.9
Michigan City - Marsh Elem. Sch.	180910011	7/15/2025	18.9	12.0
Ogden Dunes	181270024	7/15/2025	21.5	10.7
South Bend - Shields Dr.	181410015	7/15/2025	21.6	12.1
Larwill	181830003	7/15/2025	21.4	18.9

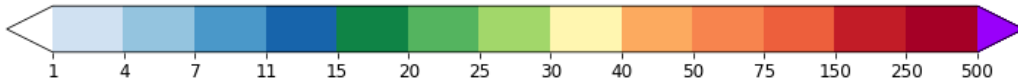
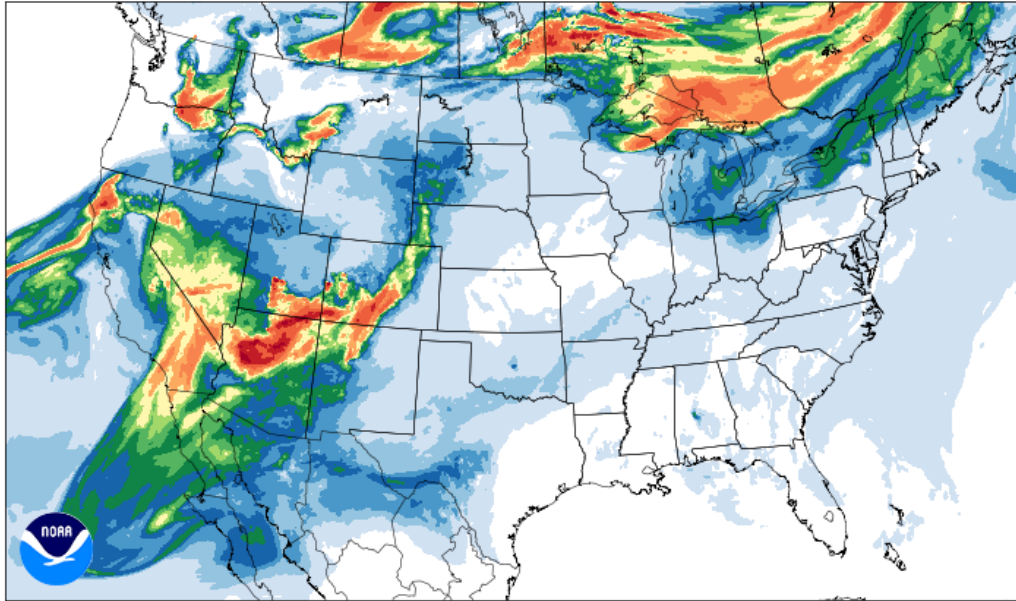
Backward Trajectories



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

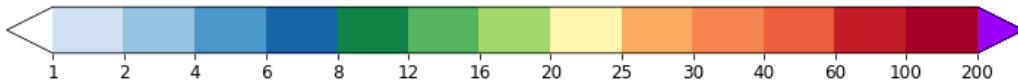
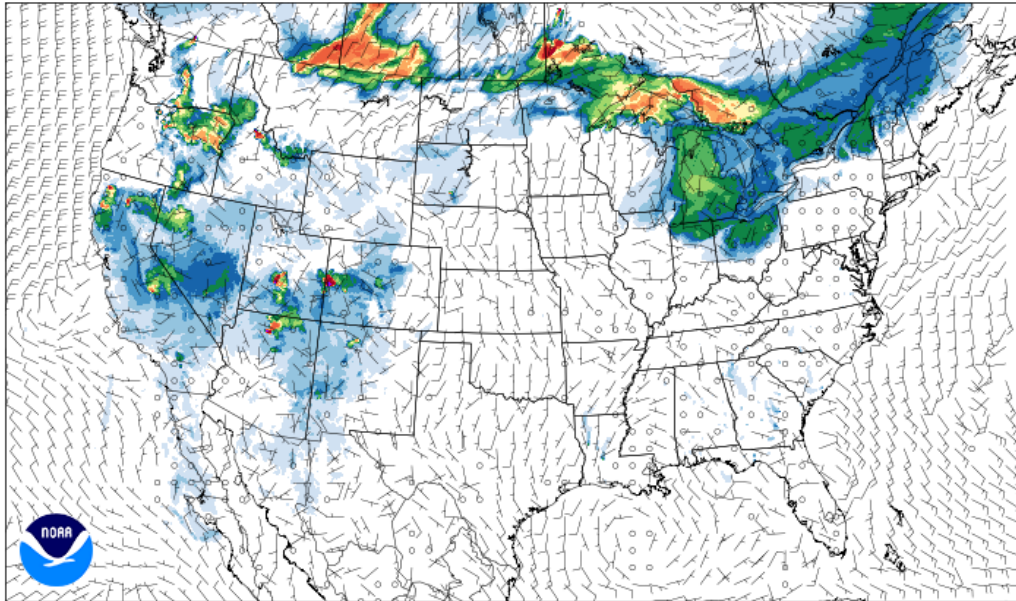
HRRR-NCEP: 20250715 00 UTC

Fcst Hr: 8, Valid Time 20250715 08 UTC

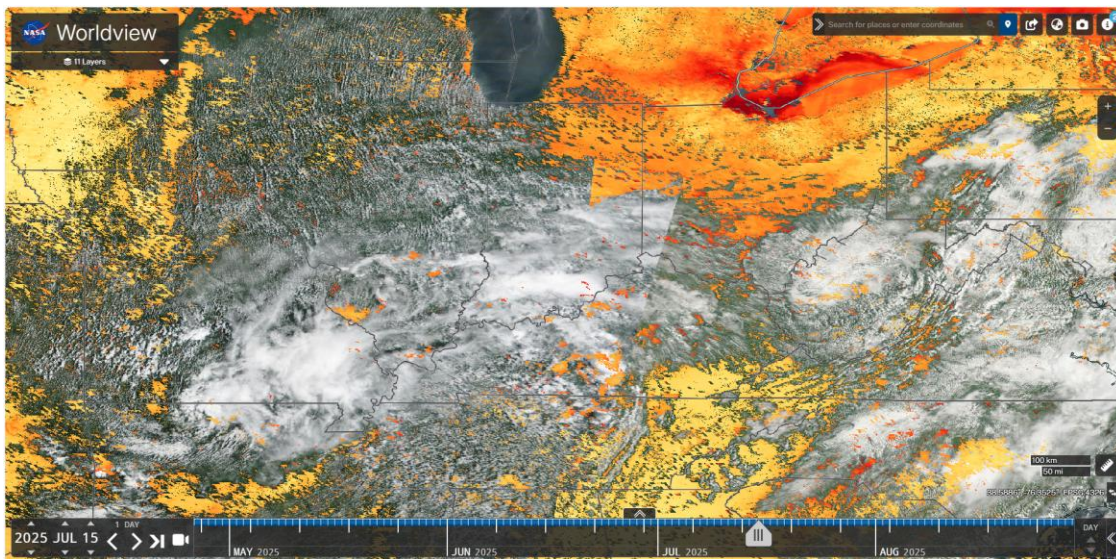
**HRRR Smoke – Near Surface Smoke**Near-Surface Smoke ($\mu\text{g}/\text{m}^3$, shaded)

HRRR-NCEP: 20250715 00 UTC

Fcst Hr: 11, Valid Time 20250715 11 UTC



Satellite Imagery with MAIAC AOD



NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY THROUGH 1430Z July 15, 2025

SMOKE:

Alaska/Canada/Atlantic Ocean...

Wildfires continued to burn across northeastern Alaska, and northwestern and central Canada, with widespread smoke dispersing eastward across central Canada, drifting past Hudson Bay and continuing across Newfoundland into the northern Atlantic. Denser smoke gathered in the Northwest Territories, northern British Columbia, and central Saskatchewan.

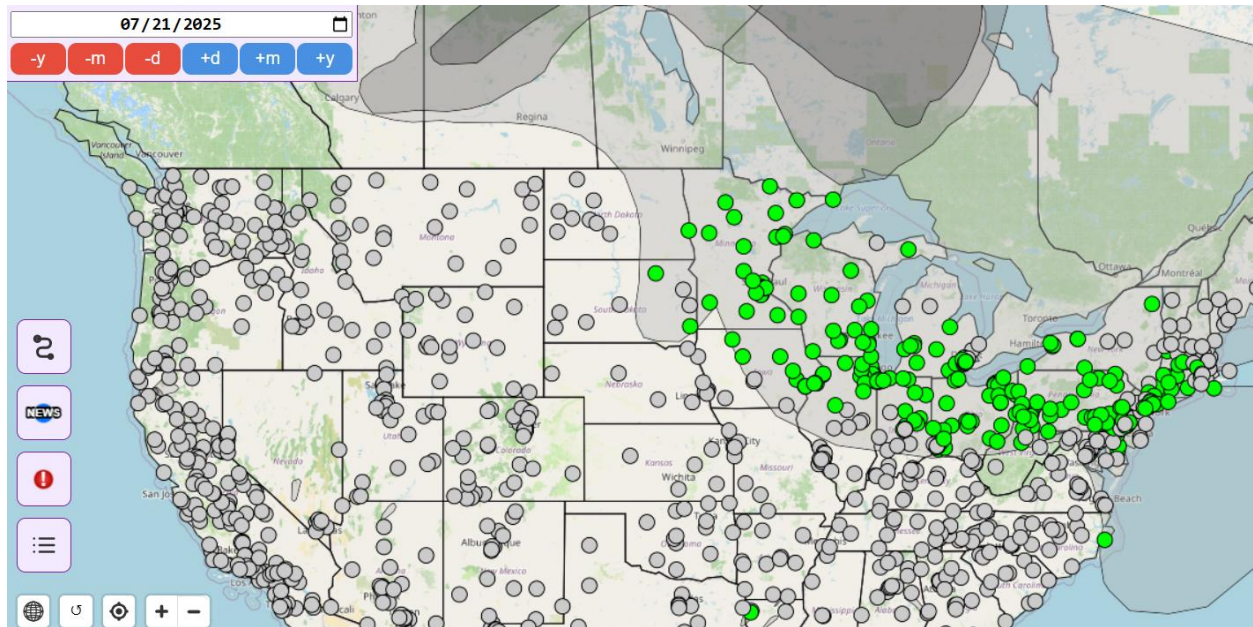
Western and North-Central U.S...

Several wildfires in southern British Columbia, northern California, central Oregon, northern Arizona, Utah, and western Colorado were spreading light-to-moderate density smoke across most of the Western and Central United States. Higher concentrations were found around southern Utah, southern Colorado, northern Arizona, and northwestern New Mexico.

July 21, 2025

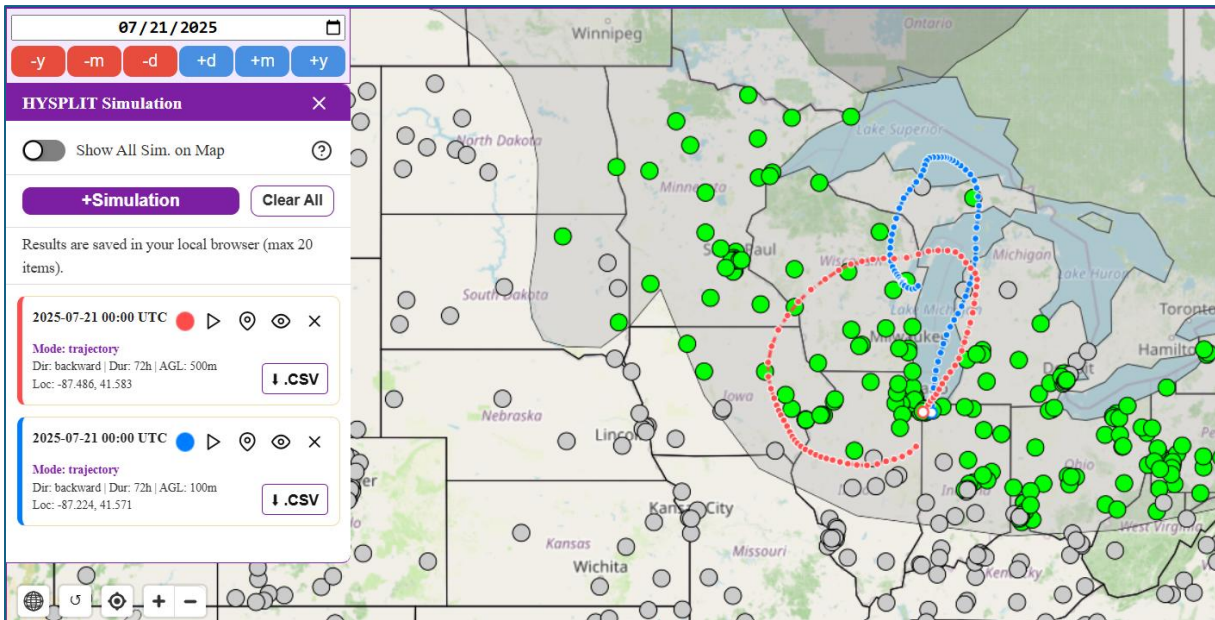
PM_{2.5} Monitoring Sites Impacted by Wildfire Smoke

Monitor Name	AQS	Date	Daily Average (µg/m ³)	Tier 2 Threshold (µg/m ³)
Muncie - Central HS	180350006	7/21/2025	14.1	13.2
Hammond-167th St	180890036	7/21/2025	20.5	16.2
Ogden Dunes	181270024	7/21/2025	19.5	15.3

Smokelyze Smoke Map with Estimated Smoke Concentration

Monitor name	AQS	Date	Daily average (µg/m ³)	GAM Estimated Smoke (µg/m ³)
Muncie - Central HS	180350006	7/21/2025	17.1	9.0
Hammond-167th St	180890036	7/21/2025	20.5	11.3
Ogden Dunes	181270024	7/21/2025	19.5	8.7

Backward Trajectories

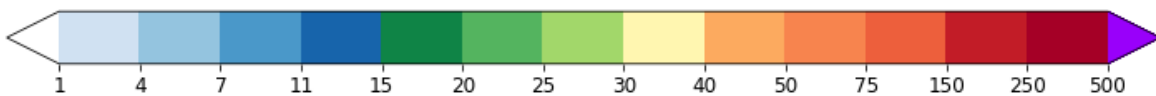
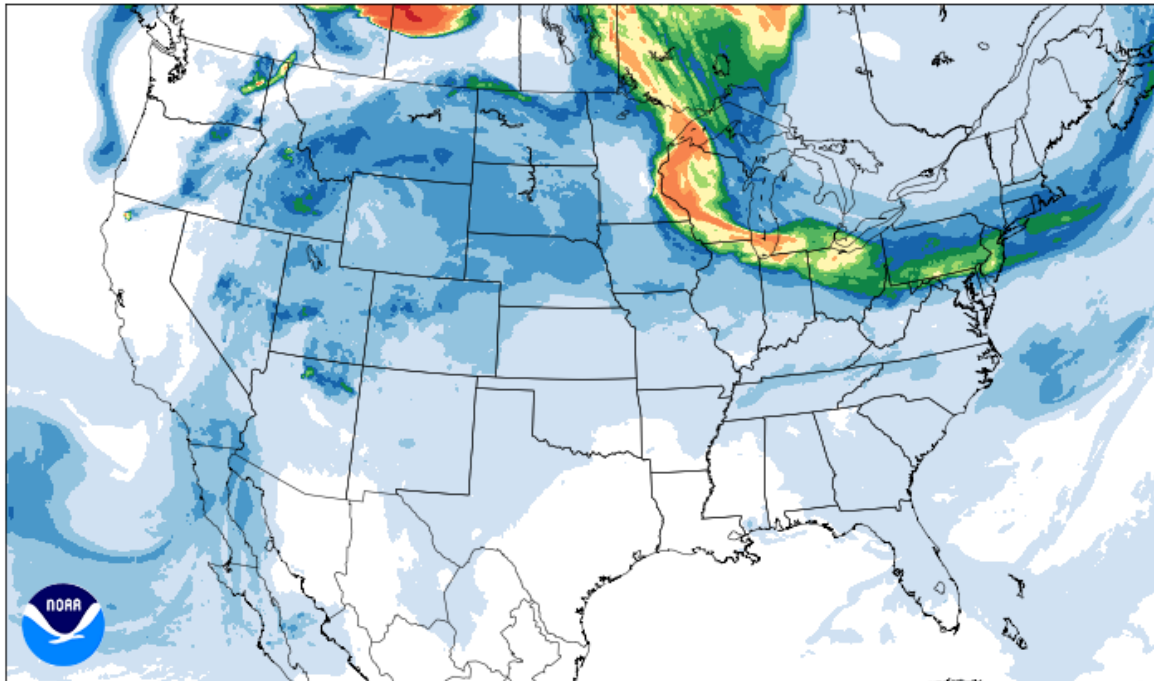


HRRR Smoke - Vertically Integrated Smoke

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

HRRR-NCEP: 20250721 00 UTC

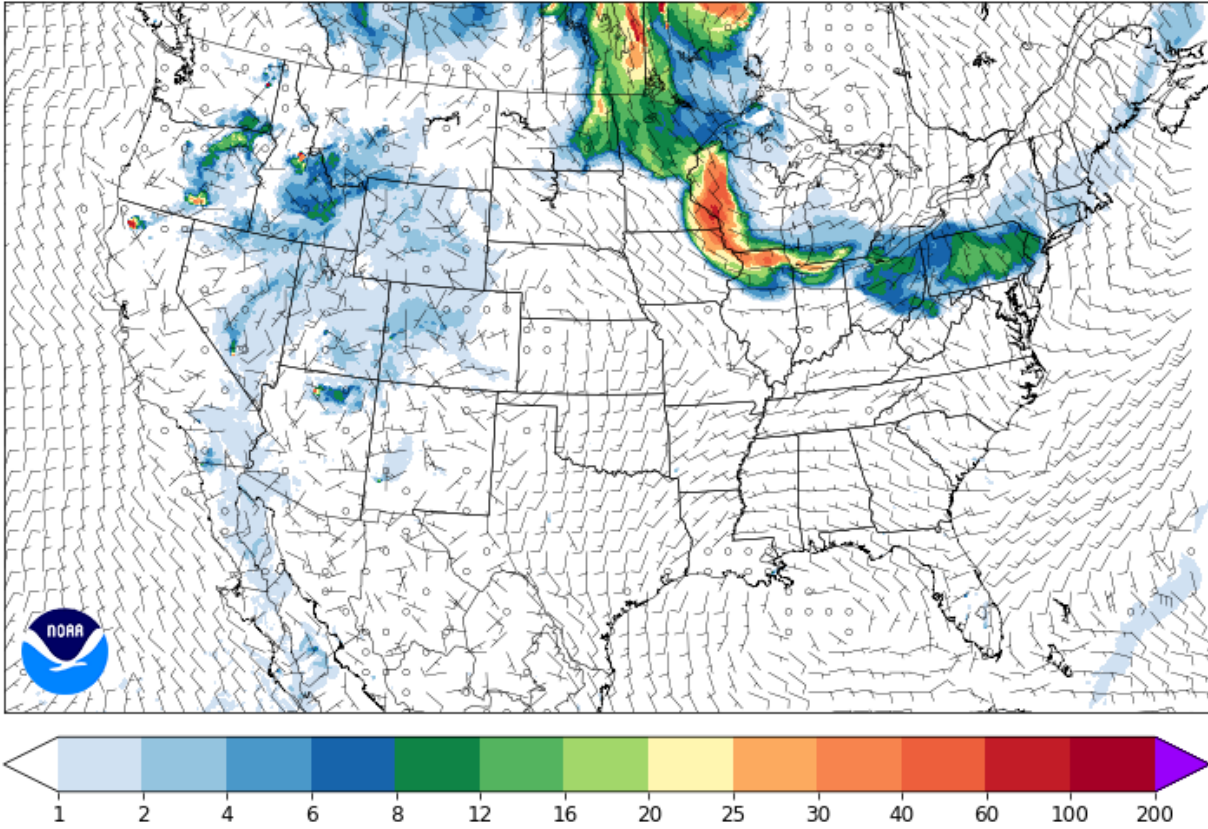
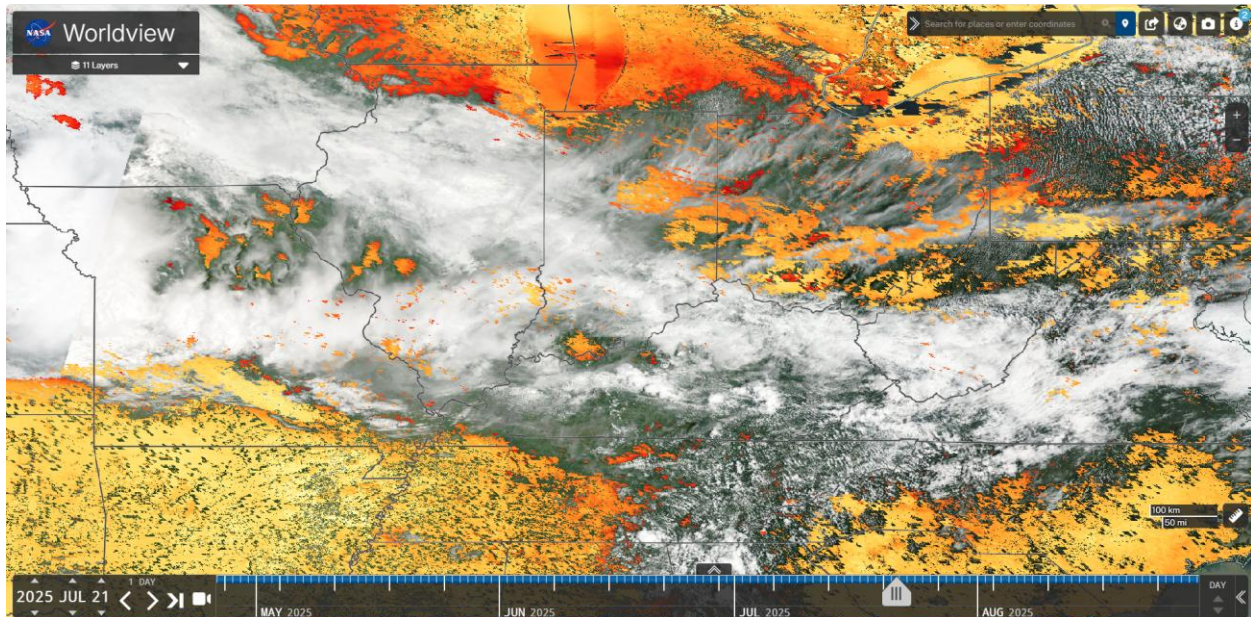
Fcst Hr: 15, Valid Time 20250721 15 UTC



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

HRRR-NCEP: 20250721 00 UTC

Fcst Hr: 13, Valid Time 20250721 13 UTC

**Satellite Imagery with MAIAC AOD**

NOAA Satellite Smoke Forecast

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN SATELLITE IMAGERY
THROUGH 1440Z July 21, 2025

SMOKE:

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

Wildfires continued to burn in eastern Alaska/Yukon, and central Canada, with widespread smoke observed across Alaska, most of Canada and extending east towards the Atlantic, north into the Arctic, and south over the Great Lakes region and northeastern United States. Higher density smoke was concentrated in much of central Canada, specifically located over central Saskatchewan, northern Manitoba, and central Ontario.

Western U.S...

More than a dozen wildfires were observed across the western U.S., from Washington State to New Mexico. Smoke originating from the wildfire in northern California was seen drifting eastward. Cloud cover obscured further smoke analysis in this region.