Staff Report

PM2.5 Area Designation Recommendations for the 2024 Annual PM2.5 National Ambient Air Quality Standard

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CALIFORNIA
AIR RESOURCES BOARD

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Executive Summary

The U.S. Environmental Protection Agency (U.S. EPA) revised the annual National Ambient Air Quality Standard (NAAQS or standard) for particulate matter 2.5 micrometers or less in diameter (PM2.5) from 12.0 µg/m^3 to 9.0 µg/m^3 on February 7, 2024. The State of California is required to submit recommendations for nonattainment area designations and boundaries to U.S. EPA by February 7, 2025. This report describes California Air Resources Board (CARB) staff's nonattainment area recommendations and supporting technical analysis. The deadline for U.S. EPA to finalize designations is February 6, 2026.

CARB staff have determined designations for areas throughout the State using an approach provided in U.S. EPA's guidance memorandum.[1] The attainment or nonattainment status of an area is based on comparing the design value, a three-year average of annual average concentrations, to the level of the standard. CARB staff recommendations are based on PM2.5 air quality monitoring data for the years 2021 to 2023.

Nonattainment areas must include the monitors exceeding the standard as well as contributing sources. To ensure that boundaries are sufficiently sized, recommendations rely on a weight of evidence approach described in U.S. EPA's guidance[2] and should consider the following information:

- Air quality data;
- Emissions and emission-related data;
- Meteorology;
- Geography/topography; and
- Jurisdictional boundaries.

After considering this information, CARB staff are recommending nine areas for nonattainment designations based on the 2021-2023 PM2.5 air quality monitoring data for the 9.0 µg/m^3 annual PM2.5 standard. These nonattainment areas are Mendocino County (partial), Plumas County (partial), Yuba City-Marysville, Sacramento County, San Francisco Bay Area, San Joaquin Valley, Los Angeles-South Coast Air Basin, San Diego County, and Imperial County (partial). For the remaining areas in California, CARB staff will be recommending that they be designated as attainment or unclassified dependent upon the availability of valid monitoring data as specified in Attachment 3.

[1] February 7, 2024, Initial Area Designations for the 2024 Revised Primary Annual Fine Particle National Ambient Air Quality Standard, Memorandum from Joseph Goffman, Assistant Administrator, Office of Air and Radiation to Regional Administrators, Regions 1-10.

[2] Ibid.

California Nonattainment Area Designation Recommendations for the 9.0 µg/m^3 Annual PM2.5 Standard

Air Quality Analysis Summary

CARB staff relied on valid air quality data from Federal Equivalent Method (FEM) or Federal Reference Method (FRM) monitors meeting operating requirements of 40 CFR part 58 to determine the designation status of areas. Table 1 below lists the CARB recommended nonattainment areas along with their current 2023 design values for the 9.0 µg/m^{3}annual PM2.5 standard. Table 2 shows the 2023 PM2.5 design value for Siskiyou County when the impacts of wildfires are removed (Attachment 4). Appropriately, CARB is not recommending that Siskiyou County be designated nonattainment due to the impact of wildfires as allowed by the Clean Air Act. Wildfires impacted the PM2.5 levels at many areas across California including those listed in Table 1. However, CARB staff only documented those events when they made an impact on the attainment of the standard.

Table 1. Design values for 9.0 µg/m^3 annual PM2.5 nonattainment area recommendations

Area	**2023 Design Value (µg/m^3)**
San Joaquin Valley	16.2
Plumas County (partial)	14.0
South Coast	13.1
Yuba City – Marysville	11.2
Mendocino County (partial)	11.0
Imperial County (partial)	10.2
Sacramento County	9.9
San Francisco Bay Area	9.6
San Diego County	9.2

Table 2. Impact of wildfires in Siskiyou County

Area	**Monitoring Site**	**2021-2023 DV** No events removed ($\mu g/m^3$)	**2021-2023 DV** 2021 and 2022 events removed ($\mu g/m^3$)
Siskiyou	Yreka (06-093-2001)	11.6	8.4

Boundary Analysis Summary

In California, if the pollution problem is regional in nature, the primary considerations for air quality planning boundaries are air basin and air district boundaries. Consistent with State law, California's air basin boundaries were established based on a scientific assessment of emissions, geography, and meteorology, with consideration of political jurisdictions. Air basin boundaries are formally adopted by CARB in regulation. Local air districts have been established, and their jurisdictions defined by State statute. CARB typically uses a combination of existing air basin and air district boundaries to identify boundaries for areas that violate air quality standards except in situations where a single city or community has a unique air pollution problem distinct from the region.

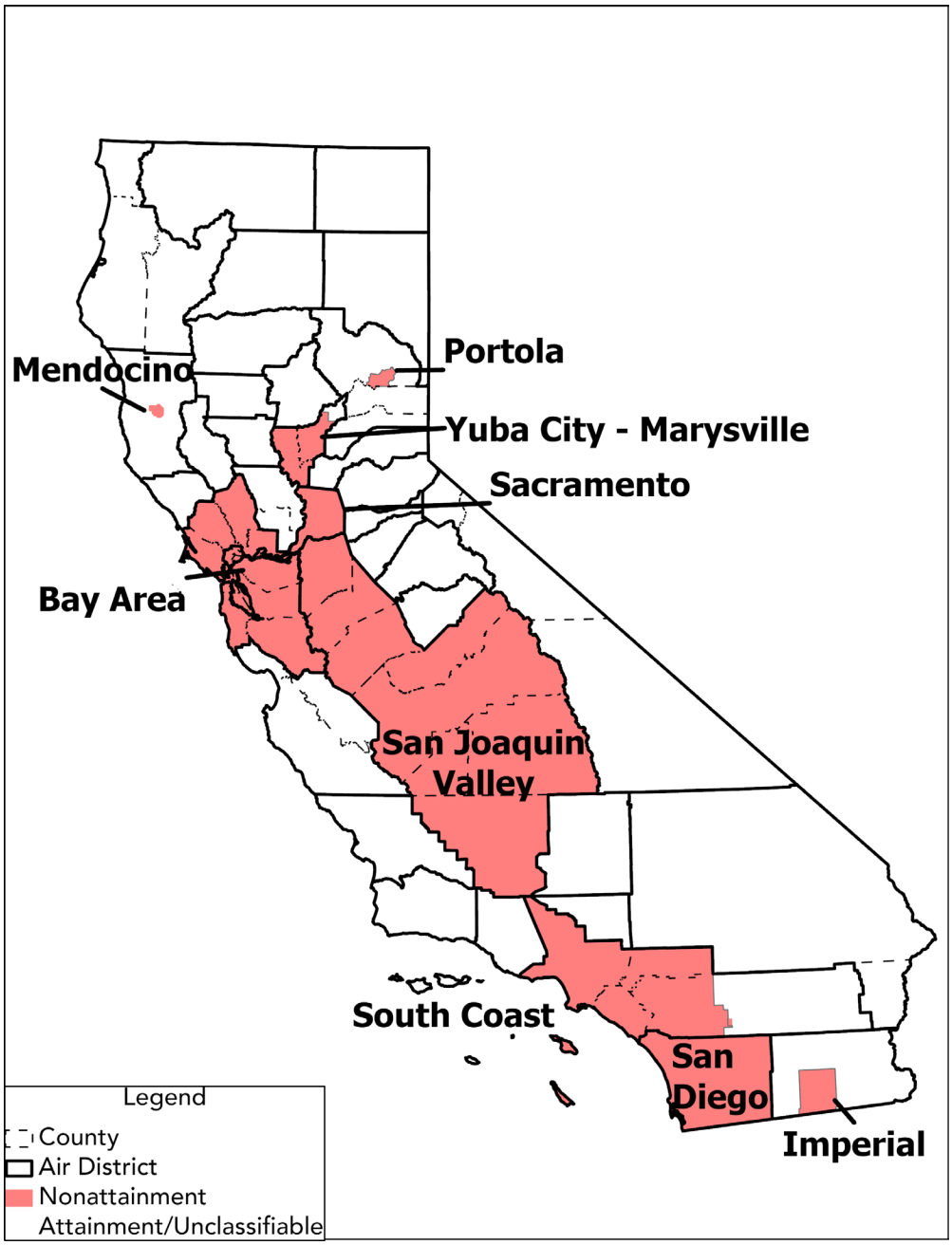
The Clean Air Act requires that a nonattainment area must include not only the area that is violating the standard, but also nearby areas that contribute to violations. Accordingly, CARB's recommended nonattainment boundaries are sufficiently large to include both the violating and contributing areas. U.S. EPA guidance recommends that in making boundary recommendations for nonattainment areas, states evaluate each area on a case-by-case basis in consideration of the following five factors:

- Air quality data;
- Emissions and emission-related data;
- Meteorology;
- Geography/topography; and
- Jurisdictional boundaries.

CARB staff reached out to the local air districts that included monitors recording values over the 9.0 $\mu g/m^3$ annual PM2.5 standard to discuss appropriate boundaries for this standard. Some of the local air districts conveyed that an existing boundary for a previous PM2.5 standard were appropriate for the 9.0 $\mu g/m^3$ annual PM2.5 standard. The Feather River Air Quality Management District and the Bay Area Air Quality Management District conveyed that the existing boundaries for the 2006 35 $\mu g/m^3$ 24-hour PM2.5 standard, Yuba City-Marysville and San Francisco Bay Area, respectively, were appropriate for the 9.0 $\mu g/m^3$ annual $PM_{2.5}$ standard. The South Coast Air Quality Management District, the San Joaquin Valley Air Pollution Control District, the Northern Sierra Air Quality Management District and the Imperial County Air Pollution Control District conveyed that

the existing boundaries for the 12.0 µg/m^3 annual PM2.5 standard, the Los Angeles-South Coast Air Basin, San Joaquin Valley, Plumas County, and Imperial County, respectively, were appropriate for the 9.0 µg/m^3 annual PM2.5 standard. After discussion with the local air districts, boundaries for monitors recording values over the 9.0 µg/m^3 annual PM2.5 standard located in Mendocino, Sacramento, and San Diego Counties will be based on review of current air quality data along with considerations for emissions, meteorology, topography, and jurisdictional boundaries. After consulting with the local air districts, CARB staff determined that the county/local air district boundary was appropriate for monitors over the 9.0 µg/m^3 annual PM2.5 standard in Sacramento and San Diego Counties. For the monitor over the 9.0 µg/m^3 annual PM2.5 standard in Mendocino County, CARB developed a boundary that captured the populated area that included the monitor. Figure 1 shows CARB staff nonattainment area recommendations for the 9.0 µg/m^3 annual PM2.5 standard.

Figure 1. Map of PM2.5 Nonattainment Areas



Some of the recommended nonattainment areas for the 9.0 µg/m^3 annual PM2.5 standard include tribal lands. While we are recommending these nonattainment boundaries, we are not making recommendations for tribal lands.

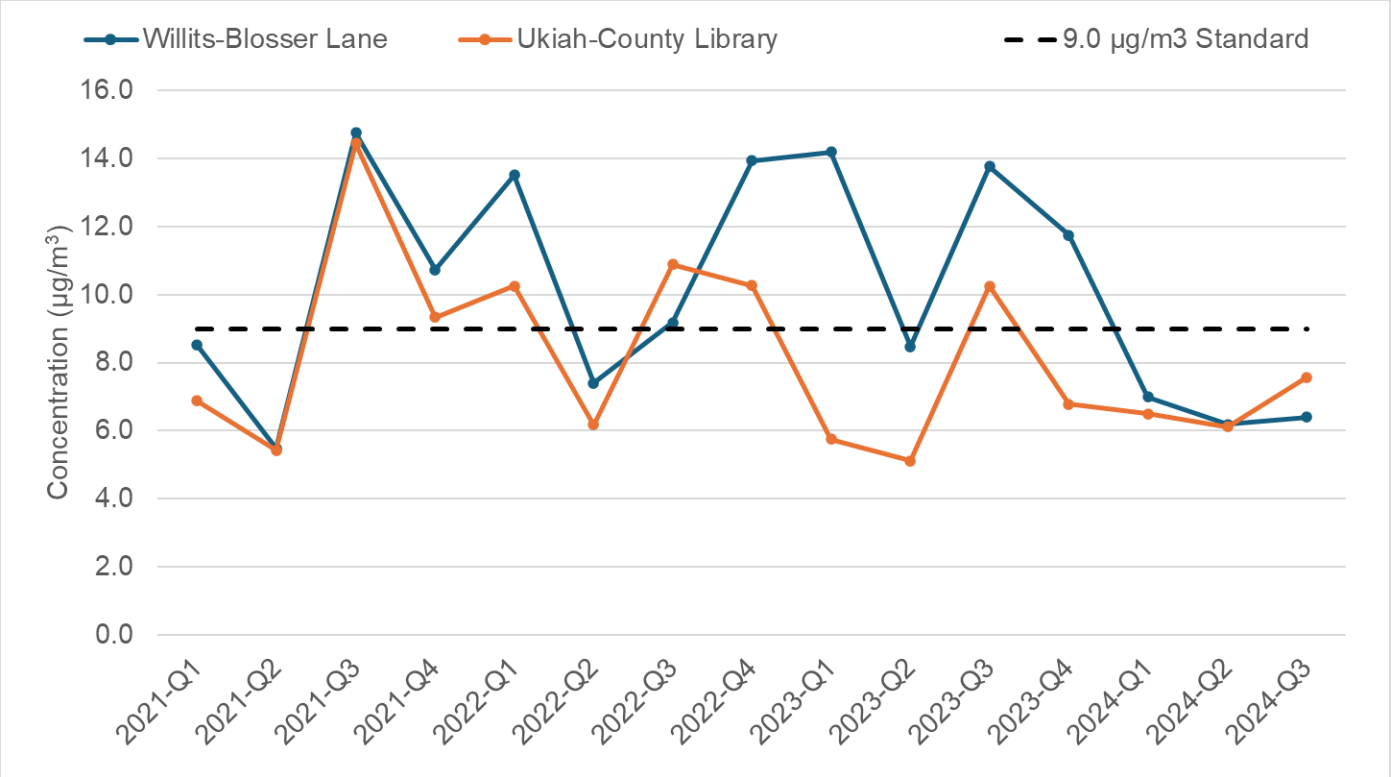
Designation Recommendations

CARB staff is recommending the following nonattainment area boundaries for the 9.0 µg/m^3 annual PM2.5 standard based on consideration of the five factors described in U.S. EPA's guidance memorandum. These nonattainment areas are Mendocino County (partial), Plumas County (partial), Yuba City-Marysville, Sacramento County, San Francisco Bay Area, San Joaquin Valley, Los Angeles-South Coast Air Basin, San Diego County and Imperial County (partial).

Mendocino County (Partial)

Mendocino County has never been designated nonattainment for any of the previous PM2.5 standards. The Willits-Blosser Lane monitoring site exceeds the 9.0 µg/m^3 annual PM2.5 standard with a 2023 design value of 11.0 µg/m^3. The Blosser Lane monitor began collecting data on February 4, 2021; data from the 125 East Commercial Street monitor was combined with Blosser Lane to calculate the 2021 quarter 1 average concentration. Concentrations are generally lowest in the second quarter with high concentrations exceeding the standard observed through quarters 1, 3, and 4 (Figure 2). The Ukiah-County Library PM2.5 monitor is also located in Mendocino County with a 2023 PM2.5 annual design value of 8.5 µg/m^3.

Figure 2. Mendocino County monitoring site quarterly concentrations



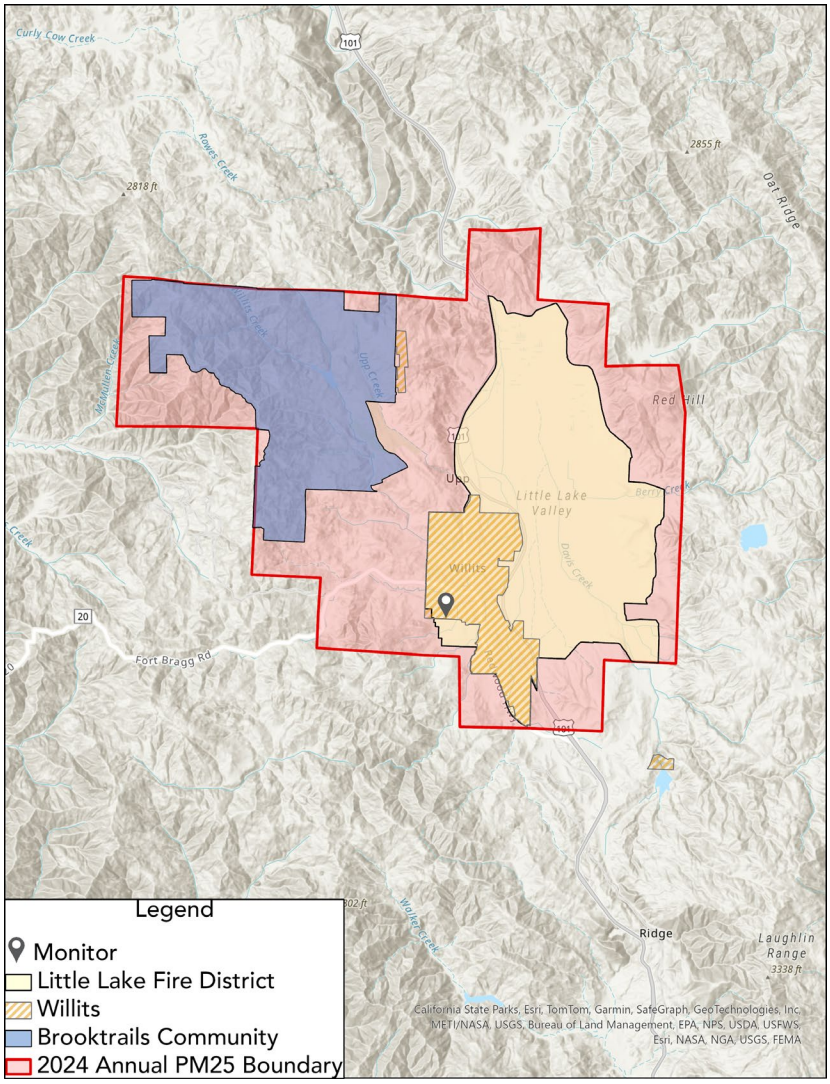
Willits has a population of 4,988 as of the 2020 Census. Brooktrails is a neighboring census-designated place, unincorporated community to the northwest of Willits and has a population of 3,632 as of the 2020 Census.

U.S. Route 101 passes North and South through the Little Lake Valley, and State Route 20 runs East and West through Willits. There are no major stationary sources identified that would influence the Willits-Blosser Lane monitor. Local sources of emissions include home heating and residential backyard burning for defensible space clearing.

Mendocino is a large county covering 3,878 square miles with a population of 91,601 as of the 2020 census. The city of Willits is located on the southwestern edge of the Little Lake Valley surrounded by the California Coast Range. The elevation of unincorporated Brooktrails community ranges from 1,634 ft on the east to 3,000 ft on the western edge. The California Coast Range effectively isolates the Little Lake Valley with higher elevation ridgelines in all directions thus justifying that the nonattainment area boundary exclude the rest of the county. Figure 3 shows the recommended nonattainment area boundary for Mendocino County. The boundary includes the Little Lake Valley, city of Willits, Brooktrails community, portions of State Route 20 to the west of Willits, and the Little Lake Fire District. This area is under the jurisdiction of the Mendocino County Air Quality Management District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, the area is in nonattainment of the 9.0 $\mu g/m^3$ annual standard with a design value of 11.0 $\mu g/m^3$ measured at the Willits-Blosser Lane monitoring site (Attachment 1).

Figure 3. Mendocino County PM2.5 Nonnattainment Area Boundary



Plumas County (Partial)

In 2015, a portion of Plumas County was designated nonattainment for the 12.0 µg/m^3 annual PM2.5 standard. Consistent with analysis previously conducted for that PM2.5 standard in accordance with U.S. EPA's five factors, CARB recommends the 9.0 µg/m^3 annual PM2.5 nonattainment area coincide with the nonattainment area already in existence as established by U.S. EPA[3]. The recommended PM2.5 nonattainment area encompasses that portion of Plumas County that includes the City of Portola and surrounding

[3] Air Quality Designations for the 2012 Primary Annual Fine Particle (PM2.5) National Ambient Air Quality Standards (NAAQS). 80 Federal Register 2,206 (January 15, 2015). *https://www.govinfo.gov/content/pkg/FR-2015-01-15/pdf/2015-00021.pdf*

communities. This area is under the jurisdiction of the Northern Sierra Air Quality Management District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, the area is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 14.0 µg/m^3 measured at the Portola monitoring site (Attachment 1).

Yuba City-Marysville

In 2009, the Yuba City-Marysville area was designated nonattainment for the 2006 35 µg/m^3 24-hour PM2.5 standard. Consistent with analysis previously conducted for that PM2.5 standard in accordance with U.S. EPA's five factors, CARB recommends the 9.0 µg/m^3 annual PM2.5 nonattainment area coincide with the nonattainment area already in existence for Yuba City-Marysville for the 2006 35 µg/m^3 24-hour PM2.5 standard as approved by U.S. EPA[4]. The recommended PM2.5 nonattainment area includes Sutter County and a portion of Yuba County. This area is under the jurisdiction of the Feather River Air Quality Management District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, the area is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 11.2 µg/m^3 measured at the Yuba City monitoring site (Attachment 1).

Sacramento County

In 2009, the Sacramento area was designated nonattainment for the 2006 35 µg/m^3 24-hour PM2.5 standard. U.S. EPA designated an area that included Sacramento County as well as portions of El Dorado, Placer, Yolo, and Solano counties[5]. CARB originally recommended that the nonattainment area only include Sacramento County since no PM2.5 monitors were exceeding the 2006 35 µg/m^3 24-hour PM2.5 standard in the surrounding counties. However, U.S. EPA designated the larger area instead. For the 9.0 µg/m^3 annual PM2.5 standard, CARB again is recommending a boundary that only includes Sacramento County based on the assessment of air quality data and sources influencing the monitors exceeding the standard.

For the 2023 PM2.5 design value, the Bercut Drive near road monitoring site recorded a PM2.5 annual average value of 9.9 µg/m^3. The Del Paso Manor monitoring site has a 2023 PM2.5 annual average design value of 9.6 µg/m^3. The neighboring monitors outside of Sacramento County in Yolo and Placer Counties are below the 9.0 µg/m^3 PM2.5 annual average standard with 2023 PM2.5 annual average design values of 8.2 µg/m^3 and

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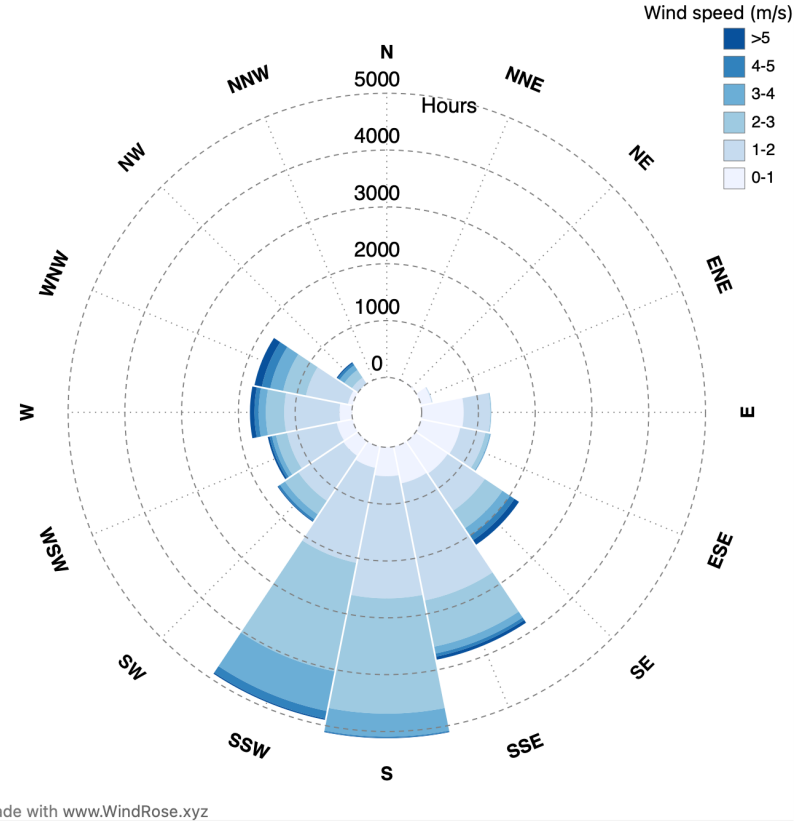
[4] Air Quality Designations for the 2006 24-Hour Fine Particle (PM2.5) National Ambient Air Quality Standards. 74 Federal Register 58,688 (November 13, 2009). *https://www.govinfo.gov/content/pkg/FR-2009-11-13/pdf/E9-25711.pdf*

[5] Ibid.

8.9 µg/m^3, respectively. These 2023 PM2.5 annual design values do include the impacts of wildfires that occurred in 2021 and would likely be lower if the impacts were excluded. Further, the eastern Sacramento County PM2.5 monitor in Folsom recorded a 2023 PM2.5 annual average value of 7.8 µg/m^3 indicating that the elevated values do not cross into the adjacent country, El Dorado County. Further, Bercut Drive, Del Paso Manor sites show higher annual average concentrations through 2022 and 2023 compared to their neighboring monitors in Yolo and Placer Counties.

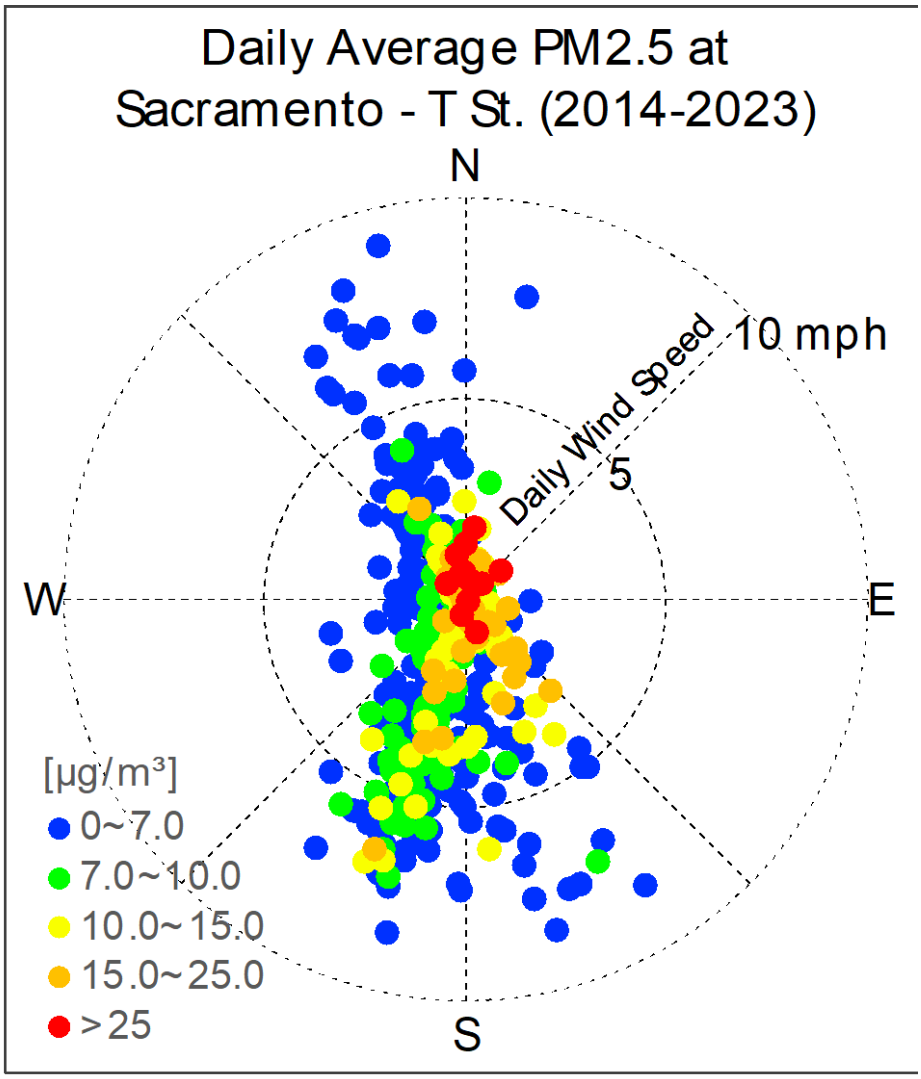
The Bercut Drive PM2.5 monitor was installed to meet the PM2.5 near road monitor requirements that are microscale in nature. The higher concentrations at the Bercut Drive near road monitor are driven in part by the proximity to on-road motor vehicles. Figure 4 shows the predominate observed wind direction for the Bercut Drive monitoring site is south, south-southwest, and south-southeast from the center of downtown Sacramento.

Figure 4. Wind Rose for Sacramento Bercut Drive monitoring site



Filter-based PM2.5 data at the Sacramento T Street monitor from 2014 to 2023 shows higher concentration days (15-25 µg/m^3) coincide with stagnant wind conditions (Figure 5). Moderate PM2.5 concentrations (7-15 µg/m^3) were observed with winds up to 7 mph from the south-southwest. This data excludes regionally concurred exceptional events. The T Street monitor is located less than 2 miles southeast of the Bercut Drive monitor.

Figure 5. 2014-2023 PM2.5 Daily Average Concentrations at Sacramento T Street by wind direction



No major stationary sources (100 tons per year of direct PM2.5 or precursors) were identified outside of Sacramento County that would influence the exceeding monitors. The recommended PM2.5 boundary is Sacramento County. This area is under the jurisdiction of the Sacramento Metropolitan Air Quality Management District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, the area is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 9.9 µg/m^3 measured at the Bercut Drive monitoring site (Attachment 1).

San Francisco Bay Area

In 2009, the San Francisco Bay Area was designated nonattainment for the 2006 35 µg/m^3 24-hour PM2.5 standard. Consistent with analysis previously conducted for that 24-hour

standard in accordance with U.S. EPA's five factors, CARB recommends the PM2.5 nonattainment area coincide with the nonattainment area already in existence for the San Francisco Bay Area for the 2006 35 µg/m^3 24-hour PM2.5 standard as approved by U.S. EPA[6]. The recommended PM2.5 nonattainment area includes the counties of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara, and portions of Solano and Sonoma. This area is under the jurisdiction of the Bay Area Air Quality Management District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, the San Francisco Bay Area is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 9.6 µg/m^3 measured at the San Pablo monitoring site (Attachment 1).

San Joaquin Valley

In 2005, the San Joaquin Valley was designated nonattainment for the annual PM2.5 standard of 15.0 µg/m^3, and in 2013 was designated nonattainment of the lowered 12.0 µg/m^3 annual standard. Consistent with analysis previously conducted for those PM2.5 standards in accordance with U.S. EPA's five factors, CARB recommends the 9.0 µg/m^3 annual PM2.5 nonattainment area coincide with the nonattainment area already in existence for previous PM2.5 standards as approved by U.S. EPA[7][8]. The recommended PM2.5 nonattainment area includes the counties of San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, and Tulare, and western Kern. This area is under the jurisdiction of the San Joaquin Valley Air Pollution Control District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 air quality monitoring data, the San Joaquin Valley is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 16.2 µg/m^3 measured at the Bakersfield-Planz monitoring site. In addition to data recorded at this high site, other monitors distributed throughout the San Joaquin Valley are over the standard (Attachment 1).

Los Angeles-South Coast Air Basin

In 2005, the Los Angeles-South Coast Air Basin (South Coast) was designated nonattainment for the annual PM2.5 standard of 15.0 µg/m^3, and in 2013 was designated nonattainment of the lowered 12.0 µg/m^3 annual PM2.5 standard. Consistent with analysis previously conducted for those PM2.5 standards in accordance with U.S. EPA's five factors,

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[6] Ibid.

[7] Air Quality Designations and Classifications for the Fine Particles (PM2.5) National Ambient Air Quality Standards. 70 Federal Register 944 (January 5, 2005). *https://www.govinfo.gov/content/pkg/FR-2005-01-05/pdf/05-1.pdf*

[8] Air Quality Designations for the 2012 Primary Annual Fine Particle (PM2.5) National Ambient Air Quality Standards (NAAQS). 80 Federal Register 2,206 (January 15, 2015). *https://www.govinfo.gov/content/pkg/FR-2015-01-15/pdf/2015-00021.pdf*

CARB recommends the 9.0 µg/m^3 annual PM2.5 nonattainment area coincide with the nonattainment area already in existence for previous PM2.5 standards as approved by U.S. EPA[9][10]. The recommended PM2.5 nonattainment area includes Orange County, southwestern San Bernardino County, western Riverside County, and western Los Angeles County (excluding Catalina and San Clemente Islands). This area is under the jurisdiction of the South Coast Air Quality Management District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, the South Coast is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 13.1 µg/m^3 measured at the Ontario-Route 60 monitoring site. In addition to data recorded at the high site, other monitors distributed throughout the South Coast are over the standard (Attachment 1).

San Diego County

In 2012, San Diego County (San Diego) was designated nonattainment for the 75 parts per billion (ppb) 8-hour ozone standard, and in 2018 was designated nonattainment for the 70 ppb 8-hour ozone standard. Consistent with analysis previously conducted for those ozone standards in accordance with U.S. EPA's five factors, CARB recommends the 9.0 µg/m^3 annual PM2.5 nonattainment area coincide with the nonattainment area already in existence for the ozone standards as approved by U.S. EPA[11]. The recommended PM2.5 nonattainment area comprises the entirety of San Diego County. This area is under the jurisdiction of the San Diego County Air Pollution Control District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, San Diego is in nonattainment of the 9.0 µg/m^3 annual PM2.5 standard with a design value of 9.2 µg/m^3 measured at the San Diego Sherman Elementary monitoring site. One other site, El Cajon Lexington Elementary, in San Diego County is also over the standard (Attachment 1).

Imperial County (Partial)

In 2015, Imperial County was designated nonattainment for the 12.0 µg/m^3 annual PM2.5 standard. Consistent with analysis previously conducted for that PM2.5 standard in accordance with U.S. EPA's five factors, CARB recommends the 9.0 µg/m^3 annual PM2.5 nonattainment area coincide with the nonattainment area already in existence for the

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[9] Air Quality Designations and Classifications for the Fine Particles (PM2.5) National Ambient Air Quality Standards. 70 Federal Register 944 (January 5, 2005). *https://www.govinfo.gov/content/pkg/FR-2005-01-05/pdf/05-1.pdf*

[10] Air Quality Designations for the 2012 Primary Annual Fine Particle (PM2.5) National Ambient Air Quality Standards (NAAQS). 80 Federal Register 2,206 (January 15, 2015). *https://www.govinfo.gov/content/pkg/FR-2015-01-15/pdf/2015-00021.pdf*

[11] Additional Air Quality Designations for the 2015 Ozone National Ambient Air Quality Standards. 83 Federal Register 25,776 (June 4, 2018). *https://www.govinfo.gov/content/pkg/FR-2018-06-04/pdf/2018-11838.pdf*

12.0 µg/m^3 annual PM2.5 standard as approved by U.S. EPA[12]. The recommended PM2.5 nonattainment area includes a portion of Imperial County. This area is under the jurisdiction of the Imperial County Air Pollution Control District. The official recommended boundary is provided in Attachment 2.

Based on 2021-2023 monitoring data, Imperial is in nonattainment of the 9.0 µg/m^3 standard with a design value of 10.2 µg/m^3 measured at the Calexico-Ethel monitoring site (Attachment 1).

[12] Air Quality Designations for the 2012 Primary Annual Fine Particle (PM2.5) National Ambient Air Quality Standards (NAAQS). 80 Federal Register 2,206 (January 15, 2015). *https://www.govinfo.gov/content/pkg/FR-2015-01-15/pdf/2015-00021.pdf*

Attachment 1: 2021-2023 Annual Averages and 2023 PM2.5 Design Values for California Regulatory Monitoring Sites

Table 3: 2021-2023 annual averages and 2023 PM2.5 design values for California regulatory monitoring sites by air basin

3a. Great Basin Valleys Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060270002	Inyo	WMRC - Owens Valley Lab	7.8	3.6	3.3	4.9
060271003	Inyo	Keeler	9.7	6.2	6.4	7.4
060510001	Mono	Mammoth	10.1	6.9	7.0	8.0
060510005	Mono	Lee Vining		4.0	3.2	

3b. Lake County Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060333002	Lake	Lakeport-S. Main Street	6.3	4.3	4.1	4.9

3c. Mountain Counties Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060090001	Calaveras	San Andreas-Gold Strike Road	8.4	6.1	5.5	6.7
060570005	Nevada	Grass Valley-Litton Building	8.7	6.0	4.7	6.5
060571001	Nevada	Truckee-Fire Station				
060631006	Plumas	Quincy-N Church Street			7.0	
060631010	Plumas	Portola	16.5	13.7	11.9	14.0

3d. Mojave Desert Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060290018	Kern	Ridgecrest-Ward	8.3	4.0	4.5	5.6
060290020	Kern	Mojave-Pat Avenue	7.5	5.2		6.0
060379035	Los Angeles	Lancaster - Fairgrounds	8.1	7.5	3.4	6.3
060710306	San Bernardino	Victorville-Park Avenue	10.3	9.0	7.9	9.0

3e. North Coast Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060231004	Humboldt	Jacobs	6.9	6.8	7.0	6.9
060450006	Mendocino	Ukiah-Library	9.0	9.4	7.0	8.5
060452003	Mendocino	Willits-Blosser Lane	9.9	11.0	12.1	11.0

3f. North Central Coast Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060530002	Monterey	Carmel Valley	3.5	3.6	4.1	3.7
060530008	Monterey	King City 2	6.7	5.2	4.5	5.5
060531003	Monterey	Salinas 3	4.8	5.1	7.7	5.9
060690002	San Benito	Hollister	5.6	5.0	4.0	4.9
060870007	Santa Cruz	Santa Cruz	4.9	5.5	5.1	5.1

3g. Northeast Plateau Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060932001	Siskiyou	Yreka	14.6	9.4	11.0	11.7[13]

3h. South Coast Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060371103	Los Angeles	Los Angeles-North Main Street	12.9	11.0	10.3	11.4
060371201	Los Angeles	Reseda	10.1	8.8	8.8	9.2
060371302	Los Angeles	Compton	13.4	12.1	11.1	12.2
060371602	Los Angeles	Pico Rivera #2	13.1	11.3	10.4	11.6
060372005	Los Angeles	Pasadena	10.7	9.1	9.1	9.6
060374002	Los Angeles	Long Beach (North)	10.9			
060374004	Los Angeles	Long Beach (South)	11.5			
060374008	Los Angeles	Long Beach-Route 710 Near Road	13.0	11.9	10.9	11.9

[13] Following the removal of exceptional events in 2021 - 2022 the design value is 8.4 µg/m^3.

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060374009	Los Angeles	Signal Hill (LBSH)			9.6	
060590007	Orange	Anaheim	11.5	9.9	9.2	10.2
060592022	Orange	Mission Viejo	9.3			
060658001	Riverside	Rubidoux	12.7	10.8	10.6	11.4
060658005	Riverside	Mira Loma (Van Buren)	14.5	11.5	11.8	12.6
060710027	San Bernardino	Ontario-Route 60 Near Road	14.7	12.2	12.3	13.1
060712002	San Bernardino	Fontana	12.1	10.9	11.2	11.4
060718001	San Bernardino	Big Bear	7.0	8.3	6.0	7.1
060719004	San Bernardino	San Bernardino	11.9	11.3	10.5	11.2

3i. South Central Coast Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060792004	San Luis Obispo	Mesa2	6.5	6.6	4.7	6.0

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060792007	San Luis Obispo	CDF	8.0	9.1	6.8	8.0
060792020	San Luis Obispo	SLO Roberto	5.9	6.5	4.1	5.5
060798002	San Luis Obispo	Atascadero	6.7	6.1	3.8	5.5
060830011	Santa Barbara	Santa Barbara	6.7	8.0	8.0	7.5
060831009	Santa Barbara	Santa Maria			4.1	
060832004	Santa Barbara	Lompoc H Street	5.8	5.6	4.6	5.3
060832011	Santa Barbara	Goleta	5.7	5.2		5.5
060839001	Santa Barbara	Carpinteria				
061110007	Ventura	Thousand Oaks	7.6	8.2	6.5	7.5
061110009	Ventura	Piru - Pacific	7.0	6.7	5.4	6.4
061111004	Ventura	Ojai - East Ojai Ave	6.2	5.6	4.2	5.3
061112002	Ventura	Simi Valley-Cochran Street	8.7	7.2	5.9	7.3
061113001	Ventura	El Rio-Rio Mesa School #2	6.8	6.5	6.1	6.5

3j. San Diego County Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060730001	San Diego	Chula Vista	9.5		8.9	
060731006	San Diego	Alpine			5.9	
060731008	San Diego	Camp Pendleton			7.9	
060731014	San Diego	Donovan			12.5	
060731016	San Diego	San Diego - Kearny Villa Rd.	7.7	6.9	7.1	7.2
060731017	San Diego	San Diego - Rancho Carmel Drive	8.5	7.7	6.9	7.7
060731022	San Diego	El Cajon - Lexington Elementary School	9.7	9.0	8.5	9.1
060731026	San Diego	San Diego - Sherman Elementary School	9.7	8.8	9.0	9.2

3k. San Francisco Bay Area Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060010007	Alameda	Livermore-793 Rincon Avenue	8.0	7.5	6.4	7.3
060010009	Alameda	Oakland	8.0	8.3	6.4	7.6
060010011	Alameda	Oakland West	7.5	8.1	6.8	7.5
060010012	Alameda	Laney College	8.7	9.4	8.7	8.9
060010013	Alameda	Berkeley-Aquatic Park	10.5*	n/a	5.9*	8.2**
060010015	Alameda	Pleasanton - Owens Ct	8.4	7.6	7.0	7.7
060130002	Contra Costa	Concord	8.0	7.0	6.2	7.1
060131004	Contra Costa	San Pablo	9.1	9.9	9.9	9.6
060410001	Marin	San Rafael	7.0	6.9	5.4	6.4
060550004	Napa	Napa Valley College	7.4	n/a	n/a	7.4**
060750005	San Francisco	San Francisco	7.2	6.8	5.4*	6.5**
060811001	San Mateo	Redwood City	6.1	6.8	8.0	7.0
060850002	Santa Clara	Gilroy	5.5	5.5*	4.7	5.7
060850005	Santa Clara	San Jose - Jackson	8.9	10.1	8.2	9.1

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060850006	Santa Clara	San Jose - Knox Avenue	10.9	8.8	6.9	8.9
060950004	Solano	Vallejo	8.4	7.7	5.9	7.3
060970004	Sonoma	Sebastopol	7.1*	6.4	5.0	6.2

* Does not meet completeness requirements in 40 CFR part 50, Appendix N 4.1(b). If completeness requirements are not met, the 3-year design value shall still be considered valid if it passes data substitution tests described in 40 CFR part 50, Appendix N 4.1(c)

** Design value does not pass data substitution tests described in 40 CFR part 50, Appendix N 4.1(c) and is invalid.

3l. San Joaquin Valley Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060190011	Fresno	Fresno - Garland	15.6	12.9	10.5	13.0
060192009	Fresno	Tranquility	8.9	6.7	4.8	6.8
060192016	Fresno	Fresno-Foundry	17.2	14.8	12.5	14.8
060195001	Fresno	Clovis-Villa	15.1	10.5	8.6	11.4
060195025	Fresno	Fresno-Pacific	13.8	13.5	12.6	13.3
060290010	Kern	Bakersfield-Golden / M St	17.9	16.6	13.6	16.0

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060290014	Kern	Bakersfield-California	16.6	15.8	12.0	14.8
060290016	Kern	Bakersfield-Airport (Planz)	20.0	16.1	12.5	16.2
060310004	Kings	Corcoran-Patterson	14.8	14.7	10.1	13.2
060311004	Kings	Hanford-Irwin	15.6	14.2	12.5	14.1
060392010	Madera	Madera-City	12.4	10.4	9.9	10.9
060470003	Merced	Merced-Coffee	11.3	9.8	8.4	9.8
060472510	Merced	Merced-M St	11.1	10.5	9.6	10.4
060771003	San Joaquin	Stockton - University Park	12.8	10.2	10.7	11.2
060772010	San Joaquin	Manteca	11.7	9.0	7.9	9.5
060990005	Stanislaus	Modesto-14th Street	15.0	13.4	10.5	13.0
060990006	Stanislaus	Turlock	12.8	10.8	10.1	11.3
061072003	Tulare	Visalia-W. Ashland Avenue	20.7	14.9	11.7	15.7

3m. Salton Sea Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060250005	Imperial	Calexico-Ethel Street	10.3	11.0	9.5	10.2
060250007	Imperial	Brawley-220 Main Street		8.7	8.6	
060251003	Imperial	El Centro-9th Street	8.4	8.9		
060652002	Riverside	Indio	9.9			
060655001	Riverside	Palm Springs	6.2	6.3	5.9	6.1

3n. Sacramento Valley Air Basin

AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060070008	Butte	Chico-East Avenue	11.1	7.7	7.8	8.9
060111002	Colusa	Colusa-Sunrise Blvd	12.1	7.2	7.4	8.9
060610003	Placer	Auburn-Atwood	9.7	7.4	5.4	7.5
060610006	Placer	Roseville-N Sunrise Ave	11.3	7.9	7.5	8.9
060670006	Sacramento	Sacramento-Del Paso Manor	10.2	10.1	8.5	9.6

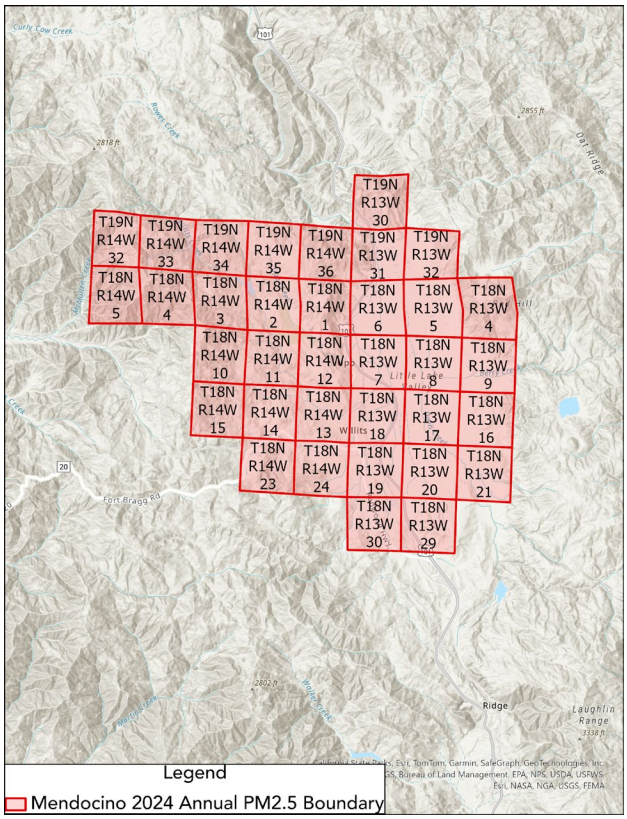
AQS ID	County	Site Name	2021 Annual Avg. (µg/m³)	2022 Annual Avg. (µg/m³)	2023 Annual Avg. (µg/m³)	2023 Annual PM2.5 Design Value (µg/m³)
060670010	Sacramento	Sacramento-1309 T Street	9.4	8.6	7.1	8.3
060670012	Sacramento	Folsom-Natoma St.	10.4	6.4	6.6	7.8
060670015	Sacramento	Sacramento-Bercut Drive	10.9	9.4	9.4	9.9
060675003	Sacramento	Sloughhouse		5.7	6	6.9
060890004	Shasta	Redding - Health Department			6.8	
061010003	Sutter	Yuba City	14.5	10.7	8.4	11.2
061030007	Tehama	Red Bluff-Walnut St. District Office	10.7	5.8	6.1	7.5
061131003	Yolo	Woodland-Gibson Road	8.9	8.3	7.4	8.2

Attachment 2: Boundaries for Recommended Nonattainment Areas

Mendocino County (Partial)

The portion of Mendocino County that is contained within the following township range section boundaries. Beginning with western, northern, and eastern boundaries of T19N range R13W section 30. The northern, and eastern boundaries of T19N range R13W section 32. The northern and eastern boundary defined by township T18N range R13W section 4. The eastern boundary defined by township T18N range R13W 9, 16, and 21. Next the southern boundary of township T18N range R13W section 21, the eastern boundary and southern boundary of township T18N range R13W section 29. The southern boundary and western boundary of township T18N range R13W section 30. The southern boundary of township T18N range R14W sections 24 and 23. The western boundary of township T18N range R14W section 23. The southern boundary of township T18N range R14W section 15. The western boundary of township T18N range R14W sections 15 and 10. The southern boundary of township T18N range R14W sections 4 and 5. The western boundary of T19N range R14W section 32. The northern boundary of township T19N range R14W sections 32. 32, 33, 34, 35, and 36. Figure 6 shows the township range sections defining the boundary of the Mendocino PM2.5 nonattainment area boundary.

Figure 6. Township range sections within the Mendocino PM2.5 nonattainment boundary



Plumas County (Partial)

- Plumas County (Partial)

The recommended Plumas County Nonattainment Area includes the portion of Plumas County within the boundaries as described below:

That portion of Plumas County within the following Super Planning Watersheds (SPWS), as defined by the State of California's Department of Conservation Statewide Watershed Program[14]: Humbug Valley (#55183301), Sulpher Creek (#55183302), Frazier Creek (#55183303), and Eureka Lake (#55183304).

Yuba City-Marysville

- Sutter County
- Yuba County (Partial)

The recommended Yuba City-Marysville Nonattainment Area includes Sutter County and the portion of Yuba County that lies within the boundaries as described below:

Yuba County

That portion of Yuba County which lies west of the line described as follows: (Mount Diablo Base and Meridian) Beginning at the intersection of the Yuba-Nevada county line and the range line common to ranges R7E and R8E, north to the southeast corner of township T18N R7E, then west along the township line common to T17N and T18N, then north along the range line common to ranges R6E and R7E, then west along the township line common to T19N and T18N to the Yuba-Butte County boundary.

Sacramento County

- Sacramento County

San Francisco Bay Area

- Alameda County
- Contra Costa County
- Marin County
- Napa County
- San Francisco County
- San Mateo County
- Santa Clara County
- Solano County (Partial)

[14] https://gispublic.waterboards.ca.gov/portalserver/rest/services/Hosted/CalWater/FeatureServer

- Sonoma County (Partial)

The recommended Bay Area Nonattainment Area includes the entirety of the counties of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara and portions of Solano County and Sonoma County within the boundaries as described below:

Solano County

That portion of Solano County which lies south and west of a line described as follows: Beginning at the intersection of the westerly boundary of Solano County and the 1/4 section line running east and west through the center of Section 34, Township 6 North, Range 2 West, Mount Diablo Base and Meridian, thence east along said 1/4 section line to the east boundary of Section 36, Township 6 North, Range 2 West, thence south 1/2 mile and east 2.0 miles, more or less, along the west and south boundary of Los Putos Rancho to the northwest corner of Section 4, Township 5 North, Range 1 West thence east along a line common to T5N and T6N to the northeast corner of Section 3, T5N, R1E, thence south along section lines to the southeast corner of Section 10, T3N, R1E, thence east along section lines to the south 1/4 corner of Section 8, T3N, R2E, thence east to the boundary between Solano and Sacramento Counties.

Sonoma County

That portion of Sonoma County which lies south and east of a line described as follows:

Beginning at the southeasterly corner of the Rancho Estero Americano, being on the boundary line between Marin and Sonoma Counties, California;

thence running northerly along the easterly boundary line of said Rancho Estero Americano to the northeasterly corner thereof, being an angle corner in the westerly boundary line of Rancho Canada de Jonive;

thence running along said boundary of Rancho Canada de Jonive westerly, northerly and easterly to its intersection with the easterly line of Graton Road;

thence running along the easterly and southerly line of Graton Road, northerly and easterly to its intersection with the easterly line of Sullivan Road;

thence running northerly along said easterly line of Sullivan Road to the southerly line of Green Valley Road;

thence running easterly along the said southerly line of Green Valley Road and easterly along the southerly line of State Highway 116, to the westerly line of Vine Hill Road;

thence running along the westerly and northerly line of Vine Hill Road, northerly and easterly to its intersection with the westerly line of Laguna Road;

thence running northerly along the westerly line of Laguna Road and the northerly projection thereof to the northerly line of Trenton Road;

thence running westerly along the northerly line of said Trenton Road to the easterly line of Trenton-Healdsburg Road;

thence running northerly along said easterly line of Trenton-Healdsburg Road to the easterly line of Eastside Road;

thence running northerly along said easterly line of Eastside Road to its intersection with the southerly line of Rancho Sotoyome;

thence running easterly along said southerly line of Rancho Sotoyome to its intersection with the Township line common to Townships 8 and 9 North, M.D.M.;

thence running easterly along said township line to its intersection with the boundary line between Sonoma and Napa Counties.

San Joaquin Valley

- Fresno County
- Kern County (Partial)
- Kings County
- Madera County
- Merced County
- San Joaquin County
- Stanislaus County
- Tulare County

The recommended San Joaquin Valley Nonattainment Area includes the entirety of the counties of Fresno, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare, and the portion of Kern County as described below:

Kern County

That portion of Kern County which lies west and north of a line described as follows: Beginning at the Kern-Los Angeles County boundary and running north and east along the northwest boundary of the Rancho La Libre Land Grant to the point of intersection with the range line common to Range 16 West and Range 17 West, San Bernardino Base and Meridian; north along the range line to the point of intersection with the Rancho El Tejon Land Grant boundary; then southeast, northeast, and northwest along the boundary of the Rancho El Tejon Land Grant to the northwest corner of Section 3, Township 11 North, Range 17 West; then west 1.2 miles; then north to the Rancho El Tejon Land Grant boundary; then northwest along the Rancho El Tejon Land Grant boundary line to the southeast corner of Section 34, Township 32 South, Range 30 East, Mount Diablo Base and Meridian; then north to the northwest corner of Section 35, Township 31 South, Range 30 East; then northeast along the boundary of the Rancho El Tejon Land Grant to the southwest corner of Section 18, Township 31 South, Range 31 East; then east to the southeast corner of Section 13, Township 31 South, Range 31 East; then north along the range line common to Range 31 East and Range 32 East, Mount Diablo Base and Meridian, to the northwest corner of

Section 6, Township 29 South, Range 32 East; then east to the southwest corner of Section 31, Township 28 South, Range 32 East; then north along the range line common to Range 31 East and Range 32 East to the northwest corner of Section 6, Township 28 South, Range 32 East, then west to the southeast corner of Section 36, Township 27 South, Range 31 East, then north along the range line common to Range 31 East and Range 32 East to the Kern-Tulare County boundary.

Los Angeles South Coast Air Basin

- Los Angeles County (Partial)
- Orange County
- Riverside County (Partial)
- San Bernardino County (Partial)

The recommended South Coast Nonattainment Area includes the entirety of Orange County and portions of Los Angeles, Riverside, and San Bernardino counties as described below:

Los Angeles County

That portion of Los Angeles County which lies south and west of a line described as follows: Beginning at the Los Angeles-San Bernardino County boundary and running west along the Township line common to Township 3 North and Township 2 North, San Bernardino Base and Meridian; then north along the range line common to Range 8 West and Range 9 West; then west along the Township line common to Township 4 North and Township 3 North; then north along the range line common to Range 12 West and Range 13 West to the southeast corner of Section 12, Township 5 North and Range 13 West; then west along the south boundaries of Sections 12, 11, 10, 9, 8, and 7, Township 5 North and Range 13 West to the boundary of the Angeles National Forest which is collinear with the range line common to Range 13 West and Range 14 West; then north and west along the Angeles National Forest boundary to the point of intersection with the Township line common to Township 7 North and Township 6 North (point is at the northwest corner of Section 4 in Township 6 North and Range 14 West); then west along the Township line common to Township 7 North and Township 6 North; then north along the range line common to Range 15 West and Range 16 West to the southeast corner of Section 13, Township 7 North and Range 16 West; then along the south boundaries of Sections 13, 14, 15, 16, 17, and 18, Township 7 North and Range 16 West; then north along the range line common to Range 16 West and Range 17 West to the north boundary of the Angeles National Forest (collinear with the Township line common to Township 8 North and Township 7 North); then west and north along the Angeles National Forest boundary to the point of intersection with the south boundary of the Rancho La Liebre Land Grant; then west and north along this land grant boundary to the Los Angeles-Kern County boundary.

Riverside County

That portion of Riverside County which lies to the west of a line described as follows: Beginning at the Riverside-San Diego County boundary and running north along the range line common to Range 4 East and Range 3 East, San Bernardino Base and Meridian; then east along the Township line common to Township 8 South and Township 7 South; then north along the range line common to Range 5 East and Range 4 East; then west along the Township line common to Township 6 South and Township 7 South to the southwest corner of Section 34, Township 6 South, Range 4 East; then north along the west boundaries of Sections 34, 27, 22, 15, 10, and 3, Township 6 South, Range 4 East; then west along the Township line common to Township 5 South and Township 6 South; then north along the range line common to Range 4 East and Range 3 East; then west along the south boundaries of Sections 13, 14, 15, 16, 17, and 18, Township 5 South, Range 3 East; then north along the range line common to Range 2 East and Range 3 East; to the Riverside-San Bernardino County Line (excluding the lands of the Santa Rosa Band of Cahuilla Mission Indians, and excluding the lands of the Pechanga Band of Luiseno Mission Indians of the Pechanga Reservation).

San Bernardino County

That portion of San Bernardino County which lies south and west of a line described as follows: Beginning at the San Bernardino-Riverside County boundary and running north along the range line common to Range 3 East and Range 2 East, San Bernardino Base and Meridian; then west along the Township line common to Township 3 North and Township 2 North to the San Bernardino-Los Angeles County boundary.

San Diego County

- San Diego County

Imperial County (Partial)

- Imperial County (Partial)

That portion of Imperial County which lies within the line described as follows: (San Bernardino Base and Meridian) Beginning at the intersection of the United States-Mexico border and the southeast corner of Township 17 South, Range 11 East, then north along the range line of the eastern edge of Range 11 East, then east along the township line of the southern edge of Township 12 South to the northeast corner of Township 13 South, Range 15 East, then south along the range line common to Range 15 East and Range 16 East, to the United States-Mexico border.

Attachment 3: Attainment and Unclassifiable Areas

Table 4: Attainment (A) and Unclassifiable (U) Areas by Air Basin and County

Area	Designations
GREAT BASIN VALLEYS AIR BASIN	
Siskiyou County[15]	A
Remainder of Air Basin	U
LAKE COUNTY AIR BASIN	A
LAKE TAHOE AIR BASIN	U
MOJAVE DESERT AIR BASIN	A
MOUNTAIN COUNTIES AIR BASIN	
Calaveras County	A
Nevada County	A
Plumas County (portion)[16]	U
Remainder of Air Basin	U
NORTH CENTRAL COAST AIR BASIN	A
NORTH COAST AIR BASIN	
Humbolt County	A
Mendocino County (portion)[17]	A
Remainder of Air Basin	U
NORTHEAST PLATEAU AIR BASIN	A
SACRAMENTO VALLEY AIR BASIN	
Butte County	A
Colusa County	A
Glenn County	A
Placer County (portion)[18]	A
Tehama County	A
Yolo County	A
Yuba County (portion)[19]	U
Remainder of Air Basin	U
SALTON SEA AIR BASIN	
Imperial County (portion)[20]	U
Remainder of Air Basin	A
SOUTH CENTRAL COAST AIR BASIN	A

[15] Attainment is based on the removal of exceptional events.
[16] The portion of Plumas County outside the recommended PM2.5 nonattainment area.
[17] The portion of Mendocino County outside the recommended PM2.5 nonattainment area.
[18] The portion of Placer County within the Sacramento Valley Air Basin.
[19] The portion of Yuba County outside the recommended Yuba-City Marysville PM2.5 nonattainment area.
[20] The portion of Imperial County outside the recommended PM2.5 nonattainment area.

Attachment 4: Siskiyou Justification 2021-2022

CARB staff's recommendation of attainment for Siskiyou County is based on our assessment of exceptional events in both 2021 and 2022. The Siskiyou County Air Pollution Control District submitted an Initial Notification Information form on August 12, 2024, for 2021 through 2023 data collected at the Yreka (06-093-2001) monitor. The days and concentrations included in the Initial Notification Information form for 2021 and 2022 are listed in Table 5 below.

While CARB and the Siskiyou County Air Pollution Control District believe that the 2021 exceedance days at the Yreka monitor were likely influenced by wildfire smoke to a degree that might otherwise trigger regulatory significance, formal exceptional events demonstrations for such events were not submitted because CARB does not anticipate that events in 2021 will have regulatory significance as indicated in the U.S. EPA's memorandum, *Initial Area Designations for the 2024 Revised Primary Annual Fine Particle National Ambient Air Quality Standard*, issued on February 7, 2024. In the unlikely circumstance that events in 2021 are determined to have regulatory significance for final designations decisions for the 2024 revised primary annual PM2.5 NAAQS, CARB will work with the U.S. EPA to provide additional information consistent with the requirements of the *EPA's Exceptional Events Rule*.

The Siskiyou County Air Pollution Control District has noticed on their website a formal exceptional event demonstration for the 2022 exceedance days listed in Table 5 below. This demonstration will be submitted to U.S. EPA prior to February 7, 2025.

Table 5: Exceedances at the Yreka PM2.5 monitor (AQS ID 06-093-2001) excluded from designation recommendation

Date of Event	**$PM_{2.5}$ Daily Average Concentration ($\mu g/m^3$)**	**Event Description**
7/1/2021	17.7	Wildfire smoke from Tennant and Salt Fires
7/2/2021	16.9	Wildfire smoke from Tennant and Salt Fires
7/11/2021	22.6	Wildfire smoke from fires in central and southern Oregon
7/12/2021	21.4	Wildfire smoke from fires in central and southern Oregon
7/13/2021	29	Wildfire smoke from fires in central and southern Oregon
7/14/2021	18.9	Wildfire smoke from fires in central and southern Oregon
7/24/2021	19.6	Wildfire smoke from Beckwourth Complex as well as fires in central and southern Oregon
7/25/2021	21.1	Wildfire smoke from Beckwourth Complex as well as fires in central and southern Oregon
7/26/2021	15.2	Wildfire smoke from Beckwourth Complex as well as fires in central and southern Oregon
7/28/2021	15	Wildfire smoke from Beckwourth Complex as well as fires in central and southern Oregon

Date of Event	$PM_{2.5}$ Daily Average Concentration ($\mu g/m^3$)	Event Description
8/3/2021	57.5	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/4/2021	106.8	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/5/2021	62.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/7/2021	32.1	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/9/2021	45.5	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/10/2021	66.3	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/11/2021	100.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/12/2021	90.5	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/13/2021	98.3	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/14/2021	111.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/15/2021	134.2	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/16/2021	33	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/18/2021	39.2	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/19/2021	47.5	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires

Date of Event	$PM_{2.5}$ Daily Average Concentration ($\mu g/m^3$)	Event Description
8/20/2021	41.8	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/21/2021	15.7	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/22/2021	56.8	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/23/2021	73.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/24/2021	105.2	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/25/2021	106.4	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/26/2021	15.8	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/27/2021	29.2	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/28/2021	49.8	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/29/2021	74.2	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/30/2021	43.5	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
8/31/2021	24.4	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/1/2021	62	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/2/2021	57.2	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires

Date of Event	$PM_{2.5}$ Daily Average Concentration ($\mu g/m^3$)	Event Description
9/3/2021	67.3	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/4/2021	111.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/5/2021	134.5	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/6/2021	105.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/7/2021	134.6	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/8/2021	103.8	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/9/2021	94.7	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/10/2021	93.3	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/11/2021	27.7	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/12/2021	21.1	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/14/2021	20.9	Smoke impacts from numerous fires in northern California and Oregon, including Antelope, Monument, McFarland and River Complex Fires
9/25/2021	22	McCash Fire smoke impacts
7/30/2022	96.6	McKinney Fire smoke impacts
7/31/2022	302.5	McKinney Fire smoke impacts
8/1/2022	74	McKinney Fire smoke impacts
8/2/2022	68.6	McKinney Fire smoke impacts
8/3/2022	48.2	McKinney Fire smoke impacts
8/4/2022	91.4	McKinney Fire smoke impacts
8/5/2022	52.6	McKinney Fire smoke impacts