APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the 2017 area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

		Ambient /	Air Quality	/ Standards	5	
Pollutant	Averaging	California S	tandards 1	Na	tional Standards) 2
Politiani	Time	Concentration ³	Method ⁴	Primary 3.5	Secondary 3.6	Method 7
Ozone (O₃)º	1 Hour	0.09 ppm (180 μg/m³)	Ultraviolet Photometry	1	Same as Primary	Ultraviolet
Ozone (O ₃)	8 Hour	0.070 ppm (137 μg/m²)	Oli aviolot i notorioti y	0.070 ppm (137 μg/m³)	Standard	Photometry
Respirable Particulate	24 Hour	50 μg/m³	Gravimetric or Beta	150 µg/m³	Same as Primary	Inertial Separation and Gravimetric
Matter (PM10)	Annual Arithmetic Mean	20 μg/m³	Attenuation	_	Standard	Analysis
Fine Particulate	24 Hour	-	_	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric
Matter (PM2.5)°	Annual Arithmetic Mean	12 μg/m³	Gravimetric or Beta Attenuation	12.0 μg/m³	15 μg/m³	Analysis
Carbon	1 Hour	20 ppm (23 mg/m²)	Non-Dispersive	35 ppm (40 mg/m³)	_	Non-Dispersive
Monoxide	8 Hour	9.0 ppm (10 mg/m³)	Infrared Photometry (NDIR)	9 ppm (10 mg/m²)	_	Infrared Photometry (NDIR)
(CO)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m²)	(IDII)	_	_	(NEW)
Nitrogen Dioxide	1 Hour	0.18 ppm (339 μg/m³)	Gas Phase	100 ppb (188 µg/m³)	_	Gas Phase
(NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 μg/m³)	Chemiluminescence	0.053 ppm (100 µg/m²)	Same as Primary Standard	Chemiluminescence
	1 Hour	0.25 ppm (655 μg/m³)		75 ppb (196 μg/m³)	_	1 114
Sulfur Dioxide	3 Hour	ı	Ultraviolet	-	0.5 ppm (1300 μg/m³)	Ultraviolet Flourescence; Spectrophotometry
(SO₂) ¹¹	24 Hour	0.04 ppm (105 μg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹¹	_	(Pararosaniline Method)
	Annual Arithmetic Mean	1		0.030 ppm (for certain areas)11	_	a.ica)
	30 Day Average	1.5 μg/m³		-	_	
Lead ^{12,13}	Calendar Quarter	_	Atomic Absorption	1.5 μg/m³ (for certain areas)12	Same as Primary	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average	1		0.15 μg/m²	Standard	
Visibility Reducing Particles ⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape		No	
Sulfates	ılfates 24 Hour 25 µg/m²		lon Chromatography		National	
Hydrogen Sulfide	1 Hour	0.03 ppm (42 μg/m³)	Ultraviolet Fluorescence		Standards	
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 μg/m²)	Gas Chromatography			
	on next page					

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- 2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m³ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- 4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μ g/m³ to 12.0 μ g/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μ g/m³, as was the annual secondary standard of 15 μ g/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 μ g/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
 - Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- 12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment A
Nonattainment N
Nonattainment-Transitional NA-T
Unclassified U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

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TABLE 1

California Ambient Air Quality Standards Area Designations for Ozone (1)

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					NORTH COAST AIR BASIN				Χ
Alpine County			Χ		NORTHEAST PLATEAU AIR BASIN				Х
Inyo County	Χ				SACRAMENTO VALLEY AIR BASIN				
Mono County	Χ				Colusa and Glenn Counties				Х
LAKE COUNTY AIR BASIN				Χ	Remainder of Air Basin	Χ			
LAKE TAHOE AIR BASIN				Χ	SALTON SEA AIR BASIN	Χ			
MOJAVE DESERT AIR BASIN	Х				SAN DIEGO AIR BASIN	Χ			
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN	Χ			
Amador County	Х				SAN JOAQUIN VALLEY AIR BASIN	Χ			
Calaveras County	Χ				SOUTH CENTRAL COAST AIR BASIN				
El Dorado County (portion)	Χ				San Luis Obispo County	Χ			
Mariposa County	Χ				Santa Barbara County		Χ		
Nevada County	Χ				Ventura County	Χ			
Placer County (portion)	Χ				SOUTH COAST AIR BASIN	Χ			
Plumas County			Χ						
Sierra County			Χ						
Tuolumne County	Х								
NORTH CENTRAL COAST AIR BASIN	Х					·			

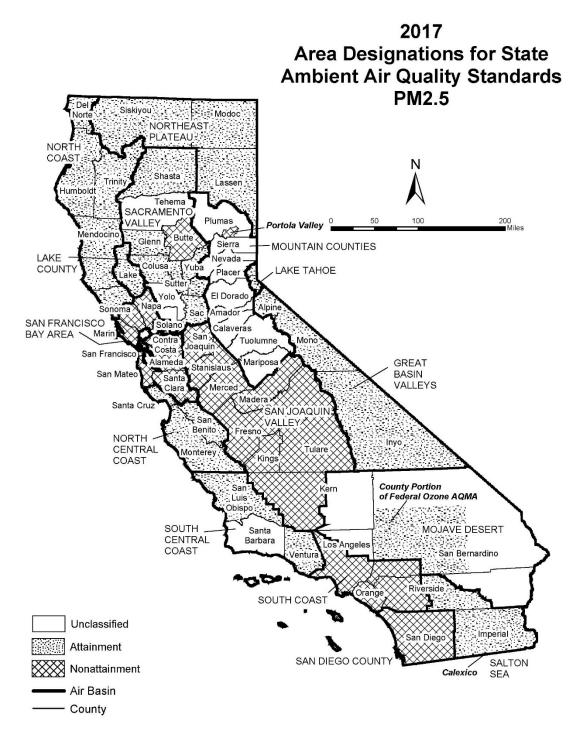
⁽¹⁾ AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

2017
Area Designations for State
Ambient Air Quality Standards
PM10



California Ambient Air Quality Standards Area Designation for Suspended Particulate Matter (PM10)

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN	Х			NORTH CENTRAL COAST AIR BASIN	Х		
LAKE COUNTY AIR BASIN			Χ	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	Х			Del Norte, Sonoma (portion) and Trinity Counties			Х
MOJAVE DESERT AIR BASIN	Х			Remainder of Air Basin	Х		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		Х		Siskiyou County			Х
Calaveras County	Χ			Remainder of Air Basin		Χ	
El Dorado County (portion)	Х			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			Х
- Yosemite National Park	Х			Remainder of Air Basin	Х		
- Remainder of County		Χ		SALTON SEA AIR BASIN	Χ		
Nevada County	Х			SAN DIEGO AIR BASIN	Х		
Placer County (portion)	Х			SAN FRANCISCO BAY AREA AIR BASIN	Х		
Plumas County	Х			SAN JOAQUIN VALLEY AIR BASIN	Χ		
Sierra County	Х			SOUTH CENTRAL COAST AIR BASIN	Х		
Tuolumne County		Х		SOUTH COAST AIR BASIN	Х		



California Ambient Air Quality Standards Area Designations for Fine Particulate Matter (PM2.5)

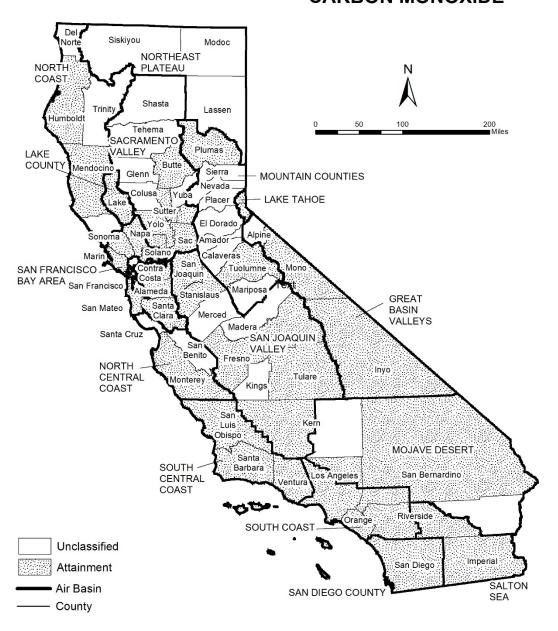
	N	U	Α		N	υ	Α
GREAT BASIN VALLEYS AIR BASIN			Х	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			Χ	Imperial County			
LAKE TAHOE AIR BASIN			Χ	- City of Calexico (3)	Χ		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			Х
San Bernardino County				SAN DIEGO AIR BASIN	Χ		
- County portion of federal Southeast			x	SAN FRANCISCO BAY AREA AIR BASIN	Χ		
Desert Modified AQMA for Ozone (1)			^	SAN JOAQUIN VALLEY AIR BASIN	Χ		
Remainder of Air Basin		Х		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			Χ
Plumas County				Santa Barbara County		Χ	
- Portola Valley (2)	Х			Ventura County			Χ
Remainder of Air Basin		Х		SOUTH COAST AIR BASIN	Χ		
NORTH CENTRAL COAST AIR BASIN			Χ				
NORTH COAST AIR BASIN			Χ				
NORTHEAST PLATEAU AIR BASIN			Χ				
SACRAMENTO VALLEY AIR BASIN							
Butte County	Х						
Colusa County			Χ				
Glenn County			Χ				
Placer County (portion)			Χ				
Sacramento County			Χ				
Shasta County			Χ				
Sutter and Yuba Counties			Χ				
Remainder of Air Basin		Х					

⁽¹⁾ California Code of Regulations, title 17, section 60200(b)

⁽²⁾ California Code of Regulations, title 17, section 60200(c)

⁽³⁾ California Code of Regulations, title 17, section 60200(a)

2017
Area Designations for State
Ambient Air Quality Standards
CARBON MONOXIDE



California Ambient Air Quality Standards Area Designation for Carbon Monoxide*

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			Χ		Butte County				Χ
Inyo County				Χ	Colusa County			Х	
Mono County				Χ	Glenn County			Х	
LAKE COUNTY AIR BASIN				Χ	Placer County (portion)				Χ
LAKE TAHOE AIR BASIN				Χ	Sacramento County				Χ
MOJAVE DESERT AIR BASIN					Shasta County			Χ	
Kern County (portion)			Χ		Solano County (portion)				Χ
Los Angeles County (portion)				Χ	Sutter County				Χ
Riverside County (portion)			Χ		Tehama County			Χ	
San Bernardino County (portion)				Χ	Yolo County				Χ
MOUNTAIN COUNTIES AIR BASIN					Yuba County			Х	
Amador County			Х		SALTON SEA AIR BASIN				Χ
Calaveras County			Χ		SAN DIEGO AIR BASIN				Χ
El Dorado County (portion)			Χ		SAN FRANCISCO BAY AREA AIR BASIN				Χ
Mariposa County			Χ		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			Χ		Fresno County				Χ
Placer County (portion)			Χ		Kern County (portion)				Χ
Plumas County				Χ	Kings County			Χ	
Sierra County			Χ		Madera County			Χ	
Tuolumne County				Χ	Merced County			Χ	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				Χ
Monterey County				Χ	Stanislaus County				Χ
San Benito County			Χ		Tulare County				Χ
Santa Cruz County			Χ		SOUTH CENTRAL COAST AIR BASIN				Χ
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				Χ
Del Norte County			Х						
Humboldt County				Χ					
Mendocino County				Χ					
Sonoma County (portion)			Х						
Trinity County			Χ						
NORTHEAST PLATEAU AIR BASIN			Х						

^{*} The area designated for carbon monoxide is a county or portion of a county

2017
Area Designations for State
Ambient Air Quality Standards
NITROGEN DIOXIDE



California Ambient Air Quality Standards Area Designation for Nitrogen Dioxide

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SACRAMENTO VALLEY AIR BASIN			Х
LAKE COUNTY AIR BASIN			Χ	SALTON SEA AIR BASIN			Х
LAKE TAHOE AIR BASIN			Χ	SAN DIEGO AIR BASIN			Х
MOJAVE DESERT AIR BASIN			Χ	SAN FRANCISCO BAY AREA AIR BASIN			Х
MOUNTAIN COUNTIES AIR BASIN			Χ	SAN JOAQUIN VALLEY AIR BASIN			Х
NORTH CENTRAL COAST AIR BASIN			Χ	SOUTH CENTRAL COAST AIR BASIN			Х
NORTH COAST AIR BASIN			Χ	SOUTH COAST AIR BASIN			Х
NORTHEAST PLATEAU AIR BASIN			Χ				



California Ambient Air Quality Standards Area Designation for Sulfur Dioxide*

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SACRAMENTO VALLEY AIR BASIN			Χ
LAKE COUNTY AIR BASIN			Χ	SALTON SEA AIR BASIN			Χ
LAKE TAHOE AIR BASIN			Χ	SAN DIEGO AIR BASIN			Χ
MOJAVE DESERT AIR BASIN			Χ	SAN FRANCISCO BAY AREA AIR BASIN			Х
MOUNTAIN COUNTIES AIR BASIN			Χ	SAN JOAQUIN VALLEY AIR BASIN			Х
NORTH CENTRAL COAST AIR BASIN			Χ	SOUTH CENTRAL COAST AIR BASIN			Х
NORTH COAST AIR BASIN			Χ	SOUTH COAST AIR BASIN			Х
NORTHEAST PLATEAU AIR BASIN			Χ				

^{*} The area designated for sulfur dioxide is a county or portion of a county



California Ambient Air Quality Standards Area Designation for Sulfates

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ	SACRAMENTO VALLEY AIR BASIN			Х
LAKE COUNTY AIR BASIN			Χ	SALTON SEA AIR BASIN			Χ
LAKE TAHOE AIR BASIN			Χ	SAN DIEGO AIR BASIN			Х
MOJAVE DESERT AIR BASIN			Χ	SAN FRANCISCO BAY AREA AIR BASIN			Х
MOUNTAIN COUNTIES AIR BASIN			Χ	SAN JOAQUIN VALLEY AIR BASIN			Х
NORTH CENTRAL COAST AIR BASIN			Χ	SOUTH CENTRAL COAST AIR BASIN			Х
NORTH COAST AIR BASIN			Χ	SOUTH COAST AIR BASIN			Χ
NORTHEAST PLATEAU AIR BASIN			Χ				

2017
Area Designations for State
Ambient Air Quality Standards
LEAD



TABLE 8

California Ambient Air Quality Standards Area Designations for Lead (particulate)*

	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Х	SALTON SEA AIR BASIN			Х
LAKE COUNTY AIR BASIN			Х	SAN DIEGO AIR BASIN			Х
LAKE TAHOE AIR BASIN			Х	SAN FRANCISCO BAY AREA AIR BASIN			Х
MOJAVE DESERT AIR BASIN			Х	SAN JOAQUIN VALLEY AIR BASIN			Х
MOUNTAIN COUNTIES AIR BASIN			Х	SOUTH CENTRAL COAST AIR BASIN			Х
NORTH CENTRAL COAST AIR BASIN			Х	SOUTH COAST AIR BASIN			Х
NORTH COAST AIR BASIN			Х				
NORTHEAST PLATEAU AIR BASIN			Х				
SACRAMENTO VALLEY AIR BASIN			Х				

^{*} The area designated for lead is a county or portion of a county

2017
Area Designations for State
Ambient Air Quality Standards
HYDROGEN SULFIDE



TABLE 9

California Ambient Air Quality Standards Area Designation for Hydrogen Sulfide*

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			Х	
Alpine County			Х		NORTH COAST AIR BASIN				
Inyo County				Х	Del Norte County			Х	
Mono County				Χ	Humboldt County				Χ
LAKE COUNTY AIR BASIN				Χ	Mendocino County			Χ	
LAKE TAHOE AIR BASIN			Χ		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				Χ
Kern County (portion)			Χ		- Remainder of County			Х	
Los Angeles County (portion)			Χ		Trinity County			Χ	
Riverside County (portion)			Χ		NORTHEAST PLATEAU AIR BASIN			Х	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			Χ	
- Searles Valley Planning Area (1)	Х				SALTON SEA AIR BASIN			Χ	
- Remainder of County			Χ		SAN DIEGO AIR BASIN			Χ	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			Х	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			Х	
- City of Sutter Creek	Х				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			Χ		San Luis Obispo County				Χ
Calaveras County			Χ		Santa Barbara County				Χ
El Dorado County (portion)			Χ		Ventura County			Χ	
Mariposa County			Χ		SOUTH COAST AIR BASIN			Χ	
Nevada County			Χ						
Placer County (portion)			Χ						
Plumas County			Χ						
Sierra County			Х						
Tuolumne County			Χ						

^{*} The area designated for hydrogen sulfide is a county or portion of a county

^{(1) 52} Federal Register 29384 (August 7, 1987)

⁽²⁾ California Code of Regulations, title 17, section 60200(d)

2017
Area Designations for State
Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES



California Ambient Air Quality Standards Area Designation for Visibility Reducing Particles

		NA-					NA-		
	N	T	U	Α		N	Т	U	Α
GREAT BASIN VALLEYS AIR BASIN			Χ		SACRAMENTO VALLEY AIR BASIN			Χ	
LAKE COUNTY AIR BASIN				Χ	SALTON SEA AIR BASIN			Χ	
LAKE TAHOE AIR BASIN			Χ		SAN DIEGO AIR BASIN			Χ	
MOJAVE DESERT AIR BASIN			Х		SAN FRANCISCO BAY AREA AIR BASIN			Х	
MOUNTAIN COUNTIES AIR BASIN			Χ		SAN JOAQUIN VALLEY AIR BASIN			Х	
NORTH CENTRAL COAST AIR BASIN			Х		SOUTH CENTRAL COAST AIR BASIN			Х	
NORTH COAST AIR BASIN			Χ		SOUTH COAST AIR BASIN			Χ	
NORTHEAST PLATEAU AIR BASIN			Χ						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

<u>Designation Categories</u>

Suspended Particulate Matter (PM₁₀). The U.S. EPA uses three categories to designate areas with respect to PM₁₀:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the current area designations reflect the 2008 national 8-hour ozone standard of 0.075 ppm. These designations were finalized on April 30, 2012. On October 26, 2015, the U.S. EPA established a new national 8-hour ozone standard of 0.070 ppm. As of the date of this publication, U.S. EPA has not made area designations for this standard.

On December 14, 2012, the U.S. EPA established a new national annual primary PM_{2.5} standard of 12.0 μ g/m³. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 μ g/m³ and the 24-hour standard of 35 μ g/m³ that was revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO₂ standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. New designations for the primary NO₂ standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO₂). The U.S. EPA uses four categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Does not meet the primary standards,
- Does not meet the secondary standards,
- Cannot be classified, and
- Better than the national standards.

In California, the first two designation categories listed above are not applicable because all areas of California either meet the primary and secondary standards or are unclassifiable. The map and summary table for sulfur dioxide show areas that cannot be classified as "U" for unclassifiable and areas that are better than the national standards as "A" for attainment.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO₂ standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual average standards. New area designations reflecting this revised standard have not yet been made by U.S. EPA for California. Designations for the revoked standard will remain in place until the new designations are established.

Lead (particulate). The U.S. EPA promulgated a new lead standard in October 2008 of $0.15 \,\mu\text{g/m}^3$ for a 3-month average. U.S. EPA made designations in November 2010. The maps in this appendix reflect these designations.

Designated Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

http://www.access.gpo.gov/nara/cfr/waisidx_05/40cfr81_05.html

Once at this website, scroll down to Part 81.305 to view the California area designations.



National Ambient Air Quality Standards Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		Х	Yolo County (2)	Х	
LAKE TAHOE AIR BASIN		Х	Yuba County		Х
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	Х	
Amador County		Х	SAN FRANCISCO BAY AREA AIR BASIN	Х	
Calaveras County	Х		SAN JOAQUIN VALLEY AIR BASIN	Х	
El Dorado County (portion) (2)	Х		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	Х		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	Х	
- Western Nevada County	Х		- Remainder of County		Х
- Remainder of County		Х	Santa Barbara County		Х
Placer County (portion) (2)	Х		Ventura County		
Plumas County		Х	- Area excluding Anacapa and San Nicolas Islands	Х	
Sierra County		Х	- Channel Islands (1)		Х
Tuolumne County		X	SOUTH COAST AIR BASIN (1)	Χ	
NORTH CENTRAL COAST AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		Х	Kern County (portion)	Х	
NORTHEAST PLATEAU AIR BASIN		Х	- Indian Wells Valley		Х
SACRAMENTO VALLEY AIR BASIN			Imperial County	Х	
Butte County	Х		Los Angeles County (portion)	Χ	
Colusa County		Х	Riverside County (portion)		
Glenn County		Х	- Coachella Valley	Х	
Sacramento Metro Area (2)	Х		- Non-AQMA portion		Х
Shasta County		Х	San Bernardino County		
Sutter County			- Western portion (AQMA)	Х	
- Southern portion of Sutter County (2)	Х		- Eastern portion (non-AQMA)		Х
- Remainder of Sutter County		Х			
Tehama County					
- Tuscan Buttes	Х				
- Remainder of Tehama County		Х			

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

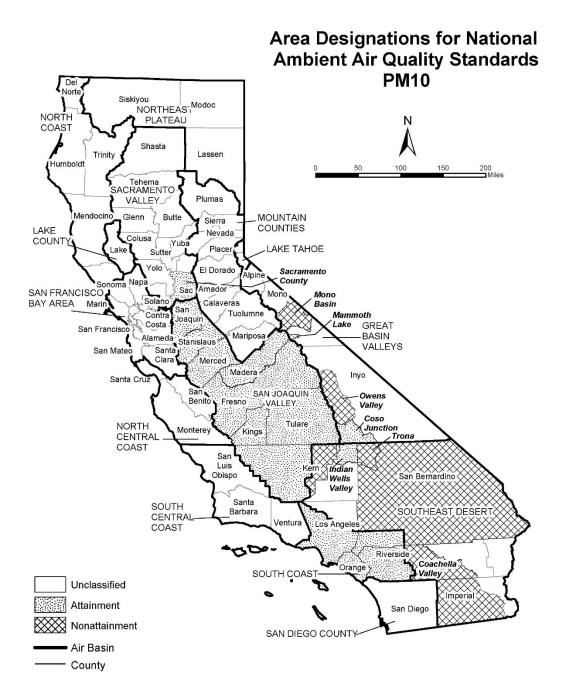
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:

Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

⁽¹⁾ South Central Coast Air Basin Channel Islands:



National Ambient Air Quality Standards Area Designations for Suspended Particulate Matter (PM10)*

_	N	U	Α		N	U	Α
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		Х	
Alpine County		Χ		SAN FRANCISCO BAY AREA AIR BASIN		Х	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			Χ
- Owens Valley Planning Area	Χ			SOUTH CENTRAL COAST AIR BASIN		Х	
- Coso Junction			Х	SOUTH COAST AIR BASIN			Х
- Remainder of County		Х		SOUTHEAST DESERT AIR BASIN			
Mono County		•		Eastern Kern County			
- Mammoth Lake Planning Area			Х	- Indian Wells Valley			Χ
- Mono Lake Basin	Х			- Portion within San Joaquin Valley Planning Area	Х		
- Remainder of County		Х		- Remainder of County		Χ	
LAKE COUNTY AIR BASIN		Х		Imperial County			
LAKE TAHOE AIR BASIN		Х		- Imperial Valley Planning Area	Х		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		Х	
Placer County (portion) (2)		Х		Los Angeles County (portion)		Х	
Remainder of Air Basin		Х		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		Х		- Coachella Valley (3)	Х		
NORTH COAST AIR BASIN		Χ		- Non-AQMA portion		Χ	
NORTHEAST PLATEAU AIR BASIN		Χ		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	Х		
Butte County		Х		- Remainder of County	Х		
Colusa County		Χ					
Glenn County		Χ					
Placer County (portion) (2)		Х					
Sacramento County (1)			Х				
Shasta County		Х					
Solano County (portion)		Х					
Sutter County		Х					
Tehama County		Х					
Yolo County		Х					
Yuba County		Х					

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

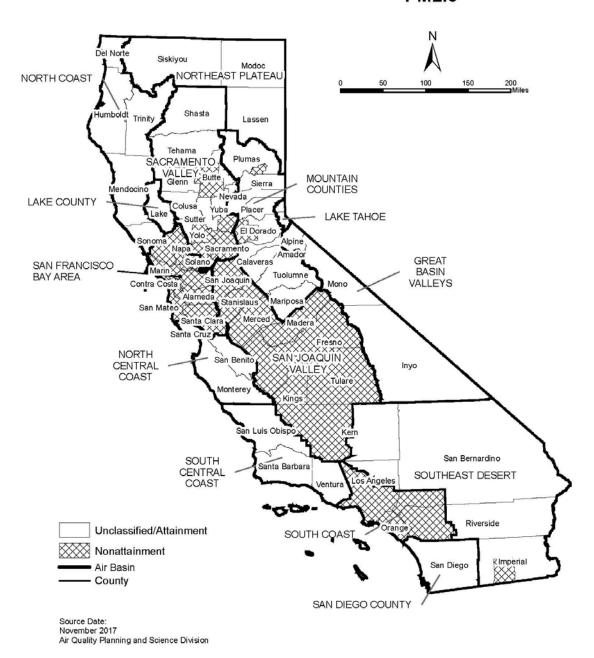
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties

Air Basin.

⁽³⁾ Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

Area Designations for National Ambient Air Quality Standards PM2.5



National Ambient Air Quality Standards Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SAN DIEGO COUNTY		Х
LAKE COUNTY AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN (3)	Х	
LAKE TAHOE AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN	Х	
MOUNTAIN COUNTIES AIR BASIN		•	SOUTH CENTRAL COAST AIR BASIN		Х
Plumas County			SOUTH COAST AIR BASIN (4)	Х	
- Portola Valley Portion of Plumas	Х		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		Х	Imperial County (portion) (5)	Х	
Remainder of Air Basin		Х	Remainder of Air Basin		Х
NORTH CENTRAL COAST AIR BASIN		Х			
NORTH COAST AIR BASIN		Х			
NORTHEAST PLATEAU AIR BASIN		Х			
SACRAMENTO VALLEY AIR BASIN		•			
Butte County (portion) (1)	Х				
Sacramento Metro Area (2)	Х				
Sutter County		Х			
Yuba County (portion)		Х			
Remainder of Air Basin		Х			

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

⁽¹⁾ City of Chico and surrounding areas. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

⁽²⁾ For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

⁽³⁾ Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

⁽⁴⁾ Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

⁽⁵⁾ That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

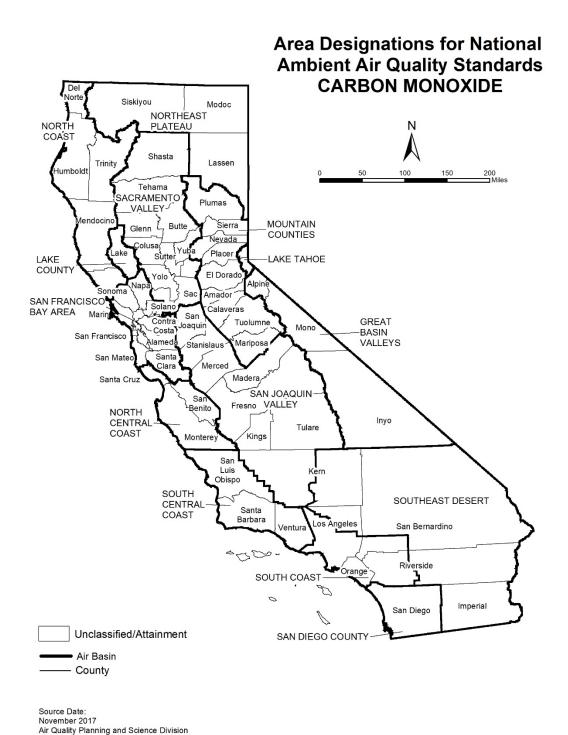


TABLE 14

National Ambient Air Quality Standards Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SACRAMENTO VALLEY AIR BASIN		Х
LAKE COUNTY AIR BASIN		Х	SAN DIEGO COUNTY		Χ
LAKE TAHOE AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN		Χ
NORTH CENTRAL COAST AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH COAST AIR BASIN		Χ	SOUTH COAST AIR BASIN	·	Χ
NORTHEAST PLATEAU AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		Х

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

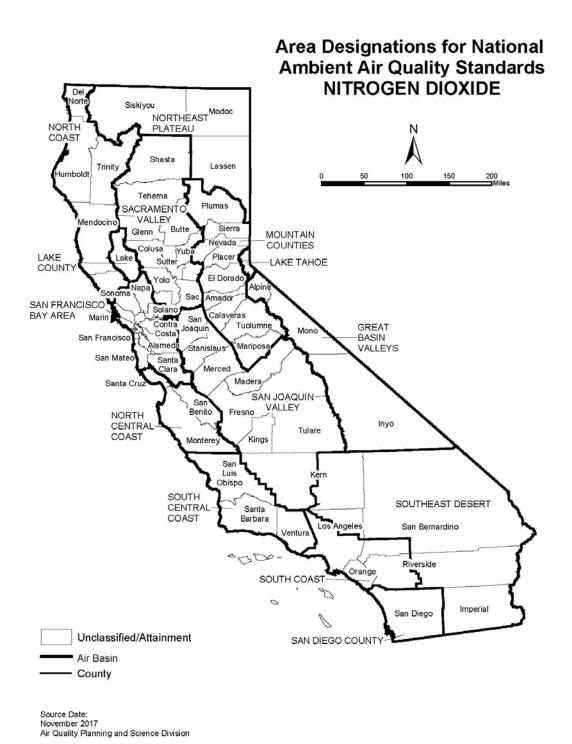


TABLE 15

National Ambient Air Quality Standards Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SACRAMENTO VALLEY AIR BASIN		Х
LAKE COUNTY AIR BASIN		Х	SAN DIEGO COUNTY		Χ
LAKE TAHOE AIR BASIN		Х	SAN FRANCISCO BAY AREA AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Х	SAN JOAQUIN VALLEY AIR BASIN		Х
NORTH CENTRAL COAST AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH COAST AIR BASIN		Х	SOUTH COAST AIR BASIN		Х
NORTHEAST PLATEAU AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		Х

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.



National Ambient Air Quality Standards Area Designations for Sulfur Dioxide*

	Α	U		Α	U
GREAT BASIN VALLEYS AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		Х	San Luis Obispo County		Х
LAKE TAHOE AIR BASIN	Х		Santa Barbara County		Х
MOUNTAIN COUNTIES AIR BASIN		Х	Ventura County	Х	
NORTH CENTRAL COAST AIR BASIN		Х	Channel Islands (1)		Х
NORTH COAST AIR BASIN		Х	SOUTH COAST AIR BASIN	Х	
NORTHEAST PLATEAU AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		Х	Imperial County	Х	
SAN DIEGO COUNTY	Х		Remainder of Air Basin		Х
SAN FRANCISCO BAY AREA AIR BASIN	Х				
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		Х			
Kern County (portion)	Х				
Kings County		Х			
Madera County		Х			
Merced County		Х			
San Joaquin County		Х			
Stanislaus County		Х			
Tulare County		Х			

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

Note: California SO2 designations reflect the former national SO2 standards, which were revoked when U.S. EPA established a new 1-hour standard in 2010. U.S. EPA has not designated any area of California for the new 1-hour standard. The designations for the former revoked SO2 standards remain in effect until U.S. EPA designates California for the 1-hour SO2 standard.

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

⁽¹⁾ South Central Coast Air Basin Channel Islands:

Area Designations for National Ambient Air Quality Standards LEAD Siskiyou NORTHEAST NORTH PLATEAU COAST 200 Miles Shasta 100 150 Trinity Lassen lumboldt Tehama ACRAMENTO Plumas VALLEY MOUNTAIN Sierra Butte Glenn COUNTIES Nevada Sutter Yuba Placer LAKE LAKE TAHOE COUNT El Dorade SAN FRANCISCO Solano **BAY AREA** Tuolumne GREAT Joaquin Costa BASIN San Francisco Alamed Stanislaus Mariposa **VALLEYS** Santa Merced Santa Cruz Madera, SAN JOAQUIN San Fresno VALLEY Benito NORTH Inyo CENTRAL Tulare COAST Kings Monterey San Obispo SOUTH SOUTHEAST DESERT CENTRAL Santa COAST Barbara Ventura San Bernardino SOUTH COAST Imperial Unclassified/Attainment San Diego Nonattainment SAN DIEGO COUNTY Air Basin - County Source Date:

November 2017 Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		Х	SAN DIEGO COUNTY		Х
LAKE COUNTY AIR BASIN		Χ	SAN FRANCISCO BAY AREA AIR BASIN		Х
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		Х
MOUNTAIN COUNTIES AIR BASIN		Х	SOUTH CENTRAL COAST AIR BASIN		Х
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		Х	Los Angeles County (portion) (1)	Х	
NORTHEAST PLATEAU AIR BASIN		Х	Remainder of Air Basin		Х
SACRAMENTO VALLEY AIR BASIN		Х	SOUTHEAST DESERT AIR BASIN		Х

⁽¹⁾ Portion of County in Air Basin, not including Channel Islands