

Technical Support Document for 2008 Ozone NAAQS Designations

**California
Area Designations for the
2008 Ozone National Ambient Air Quality Standards**

The table below identifies the areas and associated counties, parts of counties, or areas of Indian country in California that EPA is designating as nonattainment for the 2008 ozone national ambient air quality standards (2008 NAAQS). In accordance with section 107(d) of the Clean Air Act, EPA must designate an area “nonattainment” if it is violating the 2008 ozone NAAQS or if it is contributing to a violation of the 2008 ozone NAAQS in a nearby area. The technical analyses supporting the boundaries for the individual nonattainment areas are provided below.

Nonattainment Areas in California

Area	California’s or Tribe’s Recommended Nonattainment Counties	EPA’s Designated Nonattainment Counties or Areas of Indian country
Calaveras County, CA	Calaveras County	Calaveras County
Chico (Butte County), CA*	Butte County	Butte County
Imperial County, CA*	Imperial County	Imperial County
Kern County (Eastern Kern), CA	Kern County (Eastern Kern, excluding Indian Wells Valley)	Kern County (Eastern Kern, excluding Indian Wells Valley)
Los Angeles-San Bernardino Counties (West Mojave Desert), CA*	San Bernardino County (Mojave Desert Air Basin portion) as a separate nonattainment area from Los Angeles County (Antelope Valley portion or Mojave Desert Air Basin portion) nonattainment area	San Bernardino County (Mojave Desert Air Basin portion) and Los Angeles County (Antelope Valley portion or Mojave Desert Air Basin portion)
Los Angeles-South Coast Air Basin, CA*	Los Angeles County (South Coast Air Basin portion which includes Santa Catalina and San Clemente Islands), Orange County, San Bernardino County (South Coast Air Basin portion), Riverside County (South Coast Air Basin portion)	Los Angeles County (South Coast Air Basin portion which includes Santa Catalina and San Clemente Islands), Orange County, San Bernardino County (South Coast Air Basin portion), Riverside County (South Coast Air Basin portion)
Mariposa County, CA	Mariposa County	Mariposa County
Morongo Band of Mission Indians	Morongo Band of Mission Indians	Morongo Band of Mission Indians
Nevada County (Western part), CA	Nevada County (Western part)	Nevada County (Western part)
Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation	Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation

Tuscan Buttes, CA	Tehama County (Tuscan Buttes portion, above 1,800 feet elevation)	Tehama County (Tuscan Buttes portion, above 1,800 feet elevation)
Riverside County (Coachella Valley), CA*	Riverside County (Salton Sea Air Basin portion)	Riverside County (Salton Sea Air Basin portion)
Sacramento Metro, CA*	Sacramento County, Yolo County, Solano County (Sacramento Valley Air Basin portion), Sutter County (southern portion), El Dorado County (Sacramento Valley Air Basin portion), Placer County (Sacramento Valley Air Basin portion)	Sacramento County, Yolo County, Solano County (Sacramento Valley Air Basin portion), Sutter County (southern portion), El Dorado County (Sacramento Valley Air Basin portion), Placer County (Sacramento Valley Air Basin portion)
San Diego County, CA*	San Diego County	San Diego County
San Francisco Bay Area, CA*	San Francisco County, Marin County, Sonoma County (San Francisco Bay Air Basin portion), Napa County, Solano County (San Francisco Bay Air Basin portion), Contra Costa County, Alameda County, Santa Clara County, San Mateo County	San Francisco County, Marin County, Sonoma County (San Francisco Bay Air Basin portion), Napa County, Solano County (San Francisco Bay Air Basin portion), Contra Costa County, Alameda County, Santa Clara County, San Mateo County
San Joaquin Valley, CA*	San Joaquin County, Stanislaus County, Merced County, Madera County, Fresno County, Kings County, Tulare County, Kern County (San Joaquin Air Basin portion)	San Joaquin County, Stanislaus County, Merced County, Madera County, Fresno County, Kings County, Tulare County, Kern County (San Joaquin Air Basin portion)
San Luis Obispo (Eastern San Luis Obispo), CA	San Luis Obispo County (Eastern San Luis Obispo)	San Luis Obispo County (Eastern San Luis Obispo)
Ventura County, CA	Continental portion of Ventura County (excludes Anacapa and San Nicolas islands)	Continental portion of Ventura County (excludes Anacapa and San Nicolas islands)

EPA modifications to state recommendations are shown in **bold**.

*Indicates multi-jurisdictional nonattainment area or areas that include areas of Indian country of federally recognized tribes. Table 1, contained in the Technical Analysis section of each nonattainment area discussion, identifies the areas of Indian country of each tribe that EPA is designating as part of the nonattainment area.

Designation of a state area may also affect Indian country. As indicated in Table 1 above, areas of Indian country of two tribes are being designated as separate nonattainment areas from the surrounding state nonattainment areas: the Morongo Band of Mission Indians, and Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation. These nonattainment areas are referred to as the Morongo Band of Mission Indians nonattainment area and the Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation nonattainment area, respectively. Additionally, areas of Indian country are located within the boundaries of the following nonattainment areas: Chico (Butte County), Imperial County, Los Angeles-San Bernardino Counties (West Mojave Desert), Los Angeles-South Coast Air Basin, Riverside County (Coachella Valley), Sacramento Metro, San Diego County, San Francisco Bay Area, and San Joaquin Valley. Designation of areas of Indian country is discussed in the Technical Analysis for each nonattainment area.

EPA is designating the remaining counties, portions of counties, and areas of Indian country in California as “unclassifiable/attainment” for the 2008 ozone NAAQS.

The analysis below provides the basis for the nonattainment area boundaries. It relies on our analysis of which monitors are violating the 2008 ozone NAAQS and an evaluation of whether nearby areas are contributing to such violations. EPA relies on the most recent, certified and quality-assured monitoring data available to inform our decisions. States are required to certify data by May 1st of the following year. California Air Resources Board (ARB) sent revised designation recommendations in October 2011 that relied upon preliminary, non-certified 2011 monitoring data for several areas. (Letter from Lynn Terry, Deputy Executive Officer, California Air Resources Board, to Deborah Jordan, Director, U.S. EPA Region IX Air Division, dated October 12, 2011.) In December 2011, EPA sent California a letter conveying our preliminary designations and informing California that it would need to submit certified, quality-assured data to EPA by February 29, 2012 in order for EPA to consider 2011 data in our final decisions. (Letter from Jared Blumenfeld, Regional Administrator, U.S. EPA Region IX, to Edmund G. Brown, Jr., Governor of California, dated December 9, 2011.) EPA received certified, quality-assured 2011 data before February 29, 2012 for the following counties in California¹: Amador, Calaveras, El Dorado, Mariposa, Monterey, Nevada, Placer, Sacramento, San Benito, San Diego, San Luis Obispo, Santa Barbara, Santa Cruz, Solano, Sutter, Tehama, Tuolumne, and Yolo. EPA therefore based our designations on 2009-2011 data for these counties. For all remaining areas in California, EPA based our designation on certified, quality-assured 2008-2010 data. For informational purposes, the Technical Analysis for each nonattainment area provides maps showing both 2008-2010 and 2009-2011 data.

The analysis below also provides the basis for nonattainment area boundaries for federally recognized tribes. All tribes are being designated in accordance with two guidance documents finalized in late 2011 by EPA’s Office of Air Quality, Planning, and Standards: *Guidance to Regions for Working with Tribes during the National Ambient Air Quality Standard (NAAQS) Designations Process*² and the *Policy for Establishing Separate Air Quality Designations for Areas of Indian Country*³; in addition to EPA’s *Policy on Coordination and Consultation with Indian Tribes*⁴. In accordance with these documents, in

¹ Data certification packages for the listed areas are included in the docket associated with the 2008 ozone NAAQS designations.

² <http://www.epa.gov/ttn/caaa/t1/memoranda/20120117naaqsguidance.pdf>

³ <http://www.epa.gov/ttn/caaa/t1/memoranda/20120117indiancountry.pdf>

⁴ <http://www.epa.gov/tp/pdf/cons-and-coord-with-indian-tribes-policy.pdf>

January and February 2012, EPA conducted consultation on the 2008 ozone NAAQS designations with ten California tribes that requested consultation. On January 12, 2012, EPA held consultation by conference call with representatives from the La Jolla Band of Luiseño Indians, Pala Band of Luiseño Indians of the Pala Reservation, Iipay Nation Santa Ysabel⁵, and Viejas (Baron Long) Group of Capitan Grande Band of Mission Indians of the Viejas Reservation. EPA consulted with representatives of the Pechanga Band of Luiseño Mission Indians of the Pechanga Reservation on January 12, 2012 in San Francisco, California. On January 20, 2012, EPA held consultation by conference call with the Picayune Rancheria of Chuckchansi Indians of California and the Table Mountain Rancheria of California. On February 1, 2012, EPA consulted with the Campo Band of Diegueño Mission Indians of the Campo Reservation at the Campo Reservation. On February 27, 2012, EPA held consultation by conference call with the Soboba Band of Luiseño Indians. On April 5, 2012, EPA held consultation by conference call with the Ewiiapaayp Band of Kumeyaay Indians. EPA has carefully evaluated all tribal recommendations as well as all tribal responses to EPA's December 2011 preliminary designation letters. Additional information concerning EPA's analysis of areas of Indian country can be found under the jurisdictional boundaries section of the Technical Analysis for each nonattainment area that contains areas of Indian country⁶.

EPA has evaluated contributions from nearby areas based on a weight of evidence analysis considering the factors identified below. EPA issued guidance on December 4, 2008 that identified these factors as ones EPA would consider in determining nonattainment area boundaries and recommended that states consider these factors in making their designations recommendations to EPA.⁷

1. Air quality data (including the design value calculated for each federal reference method (FRM) or federal equivalent method (FEM) monitor in the area);
2. Emissions and emissions-related data (including location of sources and population, amount of emissions and emissions controls, and urban growth patterns);
3. Meteorology (weather/transport patterns);
4. Geography and topography (mountain ranges or other basin boundaries); and
5. Jurisdictional boundaries (e.g., counties, air districts, existing nonattainment areas, Indian country, metropolitan planning organizations (MPOs)).

Ground-level ozone generally is not emitted directly into the air, but is created by chemical reactions between oxides of nitrogen (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. Because NO_x and VOC emissions from a broad range of sources over a wide area typically contribute to violations of the ozone standards, EPA believes it is important to consider whether there are contributing

⁵ Tribal representative for Iipay Nation of Santa Ysabel indicated they were participating in the consultation conference call for informational purposes only.

⁶ Bishop Paiute is a federally recognized tribe that is located in Inyo County. Currently, 2008-2010 monitoring data as well as preliminary 2009-2011 data show Inyo County attaining the 2008 ozone NAAQS. In February 2009, the Bishop Paiute Reservation recommended that the portions of Bishop Paiute in Inyo County be designated as "attainment/unclassifiable" for the 2008 ozone NAAQS. (Letter from Monty Bengochia, Tribal Chairman, Bishop Paiute Tribe, to Laura Yoshii, Acting Regional Administrator, U.S. EPA Region IX, February 26, 2009.) EPA agrees that the portions of Bishop Paiute located in Inyo County should be designated as unclassifiable/attainment, consistent with the surrounding area. This Tribe is not discussed further in the California Technical Support Document because it and the surrounding area are being designated unclassifiable/attainment.

⁷ The December 4, 2008 guidance memorandum "Area Designations for the 2008 Revised Ozone National Ambient Air Quality Standards" refers to nine factors. In this technical support document we have grouped the emissions-related factors together under the heading of "Emissions and Emissions-Related Data," which results in five categories of factors.

emissions from a broad geographic area. Accordingly, EPA chose to examine the five factors with respect to the larger of the Combined Statistical Area (CSA) or Core Based Statistical Area (CBSA) associated with the violating monitor(s).⁸ All data and information used by EPA in this evaluation are the latest available to EPA and/or provided to EPA by states or tribes.

In EPA's designations guidance for the 2008 ozone NAAQS, EPA recommended examining CSA/CBSAs because certain factors used to establish CSAs and CBSAs are similar to the factors EPA is using in this technical analysis to determine if a nearby area is contributing to a violation of the 2008 ozone NAAQS. Congress required a similar approach in 1990 for areas classified as serious or above for the 1-hour ozone standard and EPA used the same basic approach in the designation process for the 1997 ozone NAAQS. Where a violating monitor is not located in a CSA or CBSA, EPA's guidance recommended using the boundary of the county containing the violating monitor as the starting point for considering the nonattainment area's boundary.

⁸ Lists of CBSAs and CSAs and their geographic components are provided at www.census.gov/population/www/metroareas/metrodef.html. The lists are periodically updated by the Office of Management and Budget. EPA used the most recent update, based on 2008 population estimates, issued on December 1, 2009 (OMB Bulletin No. 10-02).