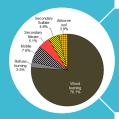
The Importance of Data: End User Perspectives

PQAO Training 2019





What Is In The Air?



How Did It Get There?



How Can We Reduce It?



How Do We Track Our Efforts?



0.092

0.107

0.099

.126

.111

.114

Publicly Available Data

Danier		Today //2018)		erday /2018)	-	ending /2018)		r-to-Date 09/26/2018		
Region	Max 1hr (ppm)	Latest hr (PST)	Max 1hr (ppm)	Max 8hr (ppm)	Max 1hr (ppm)	Max 8hr (ppm)	Max 1hr (ppm)	Max 8hr (ppm)		
Sacramento Metropolitan Area ¹	0.053	4	0.081	0.068	0.096	0.089	0.135	<u>0.116</u>		
San Diego Air Basin	0.054	4	0.079	0.063	0.084	0.073	0.102	0.082		
San Francisco Bay Area Air Basin	0.030	3	0.085	0.063	0.085	0.068	0.099	0.080		
San Joaquin Valley Air Basin	0.069	4	0.107	0.089	0.107	0.089	0.129	0.101		
South Coast Air Rasin	0.036	4	U Ud3	0.074	0 104	0 088	0.142	0.125		

				Mountair Daily A en Day Dis icrograms	verage P splay End	M25 Data ing 12/27	/2017				
Bas	Cnty	Site Name	7 Day Max	12/21/2017	12/22/2017	12/23/2017	12/24/2017	12/25/2017	12/26/2017	12/27/2017	Graphlt
MC	CAL	San Andreas-Gold Strike Road (B)	22.0	16.8	17.4	17.2	18.6	22.0	21.2	16.5	
		Yosemite Village-Visitor Center (A)	15.0	12.8	15.0	9.7	7.2	10.6	7.8	9.8	
MC	NEV	Grass Valley-Litton Building (A)	2.8	2.8						2.5	
	NEV										
	NEV		6.6		6.6	3.6	3.1	0.4	1.8	2.0	
	NEV		10.6	5.6			7.9			10.6	
	NEV	Truckee-Fire Station (D)	19.3	15.8	19.3	14.9	18.8	14.5	17.1	18.8	
	PLA	Colfax-City Hall (A)	10.7	8.0	10.7	8.7	6.0	4.8	6.5	6.0	
	PLU	Chester-222 1st Avenue (C)	30.3	16.4	30.3	22.5	24.3	15.5	15.0	13.4	
	PLU	Portola-Gulling Street (A)	50.9	22.7						50.9	
	PLU		52.0				24.2			52.0	
	PLU		54.0	23.8	<u>37.8</u>	49.8	<u>37.5</u>	44.5	<u>47.5</u>	54.0	
	PLU	Portola-Gulling Street (D)	23.5	23.5							
	PLU	Quincy-N Church Street (A)	25.8	22.9		23.8	25.4	25.1		25.8	
	PLU		28.4	26.3	25.8	25.5	27.3	28.4	22.3	27.7	
		tional Information on Sites d Data: Quick or Select Format									

AQMIS: https://www.arb.ca.gov/aqmis2/aqmis2.php

17.3

18.2

86

Comparing to the Standards

Bakersfield-410	E Planz Road					ADAI	
	20	15	20)16	2017		
	Date	24-Hr Average Date 24-Hr Average		24-Hr Average	Date	24-Hr Average	
	National:						
First High:	Jan 9	83.2	Dec 29	51.4	Dec 30	80.1	
Second High:	Jan 6	64.3	Jan 1	50.7	Dec 15	73.6	
Third High:	Nov 14	56.5	Dec 20	47.7	Dec 12	69.7	
Fourth High:	Jan 18	52.9	Nov 8	44.5	Dec 24	69.7	
	California:						
First High:	Jan 9	83.2	Dec 29	51.4	Dec 30	80.1	
Second High:	Jan 6	64.3	Jan 1	50.7	Dec 15	73.6	
Third High:	Nov 14	56.5	Dec 20	47.7	Dec 12	69.7	
Fourth High:	Jan 18	52.9	Nov 8	44.5	Dec 24	69.7	
	National:						
Estimated # Da	vs > 24-Hour Std:	38.0		*		32.2	

Top 4 Summary: Highest 4 Daily 24-Hour PM2.5 Averages

20.8

17.9

94

Measured # Days > 24-Hour Std: 24-Hour Standard Design Value:

24-Hour Standard 98th Percentile: 2006 Annual Std Design Value:

2013 Annual Std Design Value:

Annual Std Designation Value:

Annual Average: California:

Annual Average: Year Coverage:

iADAM: https://www.arb.ca.gov/adam/

50.7

18.4

86

		Ambient A	Air Qualit	y Standard	ds		
D. II. 4	Averaging	California S	tandards ¹	Nat	ional Standards	2	
Pollutant	Time	Concentration ³	Method ⁴	Primary ^{3,5}	Secondary 3,6	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet	-	Same as	Ultraviolet	
(-3)	8 Hour	0.070 ppm (137 µg/m³)	Photometry	0.070 ppm (137 µg/m³)	Primary Standard	Photometry	
Respirable Particulate	24 Hour	50 μg/m³	Gravimetric or	150 µg/m³	Same as	Inertial Separation and Gravimetric	
Matter (PM10)9	Annual Arithmetic Mean	20 μg/m³	Beta Attenuation	-	Primary Standard	Analysis	
Fine Particulate	24 Hour	-	-	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric	
Matter (PM2.5) ⁹	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/m³)	Non-Pleasanter	35 ppm (40 mg/m ³)	1	New Pilesenbur	
Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	1	Non-Dispersive Infrared Photometry (NDIR)	
(00)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)	,,,,,,	1	-	(LL y	
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/m³)	Same as Primary Standard	Chemiluminescence	
	1 Hour	0.25 ppm (655 µg/m³)		75 ppb (196 μg/m³)	1		
Sulfur Dioxide	3 Hour	_	Ultraviolet	1	0.5 ppm (1300 µg/m³)	Ultraviolet Flourescence; Spectrophotometry	
(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹¹	1	(Pararosaniline Method)	
	Annual Arithmetic Mean	-		0.030 ppm (for certain areas) ¹¹	_		
	30 Day Average	1.5 µg/m³		-	-		
Lead ^{12,13}	Calendar Quarter	-	Atomic Absorption	1.5 µg/m ³ (for certain areas) ¹²	Same as	High Volume Sampler and Atomic Absorption	
	Rolling 3-Month Average	-		0.15 µg/m³	Primary Standard		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape		No		
Sulfates	24 Hour	25 µg/m³	Ion 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/m³)	Gas Chromatography				

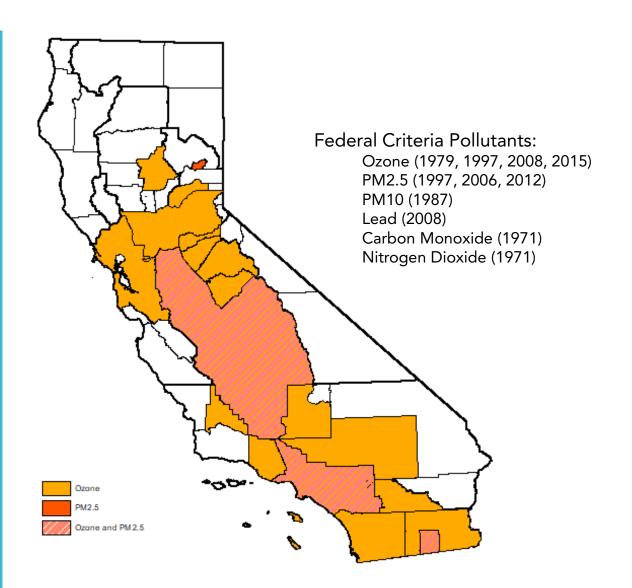
		Ambient A	Air Qualit	y Standard	ds		
Pollutant	Averaging	California S	tandards ¹		tional Standards	2	
Pollutant	Time	Concentration ³	Method ⁴	Primary ^{3,5}	Secondary 3,6	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	1	Same as	Ultraviolet	
,	8 Hour	0.070 ppm (137 µg/m³)	Photomeav	0.070 ppm (137 µg/m³)	Primary Standard	Photometry	
Respirable Particulate	24 Hour	50 μg/m ³	Gravimetric or	150 µg/m²	Same as	Inertial Separation and Gravimetric	
Matter (PM10)9	Annual Arithmetic Mean	20 μg/m ³	Beta Attenuation	_	Primary Standard	Analysis	
Fine Particulate	24 Hour	-	-	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric	
Matter (PM2.5) ⁹	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/m ³)		35 ppm (40 mg/m ³)	_		
Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	_	Non-Dispersive Infrared Photometry (NDIR)	
(00)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)	,,,,,,	1	_	(LL II)	
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/m³)	Same as Primary Standard	Chemiluminescence	
	1 Hour	0.25 ppm (655 µg/m³)	n (655 μg/m³) 75 ppb (196 μg/m³) –		_		
Sulfur Dioxide	3 Hour	_	Ultraviolet	-	0.5 ppm (1300 µg/m³)	Ultraviolet Flourescence; Spectrophotometry	
(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹¹	_	(Pararosaniline Method)	
	Annual Arithmetic Mean	-		0.030 ppm (for certain areas) ¹¹	_		
	30 Day Average	1.5 µg/m³		1	-		
Lead ^{12,13}	Calendar Quarter	-	Atomic Absorption	1.5 µg/m ³ (for certain areas) ¹²	Same as	High Volume Sampler and Atomic Absorption	
	Rolling 3-Month Average	-		0.15 µg/m³	Primary Standard		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape		No		
Sulfates	24 Hour	25 μg/m³	Ion 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/m³)	Gas Chromatography				

		Ambient A	Air Qualit	y Standard	ds	
Dellisteet	Averaging	California S	tandards ¹	Nat	tional Standards	2
Pollutant	Time	Concentration ³	Method ⁴	Primary ^{3,5}	Secondary 3,6	Method ⁷
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet	-	Same as	Ultraviolet
(-3)	8 Hour	0.070 ppm (137 µg/m³)	Photometry	0.070 ppm (137 µg/m³)	Primary Standard	Photometry
Respirable Particulate	24 Hour	50 μg/m ³	Gravimetric or	150 µg/m³	Same as	Inertial Separation and Gravimetric
Matter (PM10) ⁹	Annual Arithmetic Mean	20 μg/m³	20 µg/m ³ Beta Attenuation		Primary Standard	Analysis
Fine Particulate	24 Hour	-	-	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric
Matter (PM2.5) ⁹	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/m³)	Non Dienerske	35 ppm (40 mg/m ³)	_	Non Directive
Monoxide (CO)	8 Hour	9.0 ppm (10 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	_	Non-Dispersive Infrared Photometry (NDIR)
(00)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)	, ,	_	_	, ,
Nitrogen Dioxide	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase	100 ррь (188 µg/m³)	-	Gas Phase
(NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)	Chemiluminescence	0.053 ppm (100 µg/m³)	Same as Primary Standard	Chemiluminescence
	1 Hour	0.25 ppm (655 µg/m³)		75 ppb (196 μg/m³)	_	
Sulfur Dioxide	3 Hour	_	Ultraviolet	_	0.5 ppm (1300 µg/m³)	Ultraviolet Flourescence; Spectrophotometry
(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence	0.14 ppm (for certain areas) ¹¹	_	(Pararosanline Method)
	Annual Arithmetic Mean	_		0.030 ppm (for certain areas) ¹¹	_	
	30 Day Average	1.5 µg/m³		-	-	
Lead ^{12,13}	Calendar Quarter	-	Atomic Absorption	1.5 µg/m³ (for certain areas) ¹²	Same as	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average	-		0.15 µg/m³	Primary Standard	
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape		No	
Sulfates	24 Hour	25 µg/m³	Ion 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/m³)	Gas Chromatography			

		Ambient A	Air Qualit	y Standard	ds		
Pollutant	Averaging	California S	Method Primary Secondary Same as Primary Stance Same as Same as Primary Stance Same as Same as Primary Stance Same as Same as Primary Stance Same Same as Primary Stance Same Same	ional Standards	2		
Pollutant	Time	Concentration ³	Method ⁴	Primary 3,5	Secondary 3,6	Method ⁷	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 µg/m³)		-		Ultraviolet	
(-3/	8 Hour	0.070 ppm (137 µg/m³)	Photometry	0.070 ppm (137 µg/m³)	Primary Standard	Photometry	
Respirable Particulate	24 Hour	50 μg/m³		150 μg/m³		Inertial Separation and Gravimetric	
Matter (PM10)9	Annual Arithmetic Mean	20 μg/m³	Beta Attenuation	_	Primary Standard	Analysis	
Fine Particulate	24 Hour	-	-	35 μg/m³	Same as Primary Standard	Inertial Separation and Gravimetric	
Matter (PM2.5) ⁹	Annual Arithmetic Mean	12 μg/m³		12.0 µg/m³	15 μg/m³	Analysis	
Carbon	1 Hour	20 ppm (23 mg/m ³)		35 ppm (40 mg/m ³)	_		
Monoxide	8 Hour	9.0 ppm (10 mg/m ³)	Infrared Photometry	9 ppm (10 mg/m³)	_	Non-Dispersive Infrared Photometry (NDIR)	
(CO)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)	(12.11)	-	-	(12.11)	
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/m³)	Same as Primary Standard	Chemiluminescence	
	1 Hour	0.25 ppm (655 µg/m³)		75 ppb (196 μg/m³)	_		
Sulfur Dioxide	3 Hour	-	Ultraviolet	_	0.5 ppm (1300 μg/m³)	Ultraviolet Flourescence; Spectrophotometry	
(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence		-	(Pararosaniline Method)	
	Annual Arithmetic Mean	1		• • • • • • • • • • • • • • • • • • • •	-		
	30 Day Average	1.5 µg/m³		_	1		
Lead ^{12,13}	Calendar Quarter	-	Atomic Absorption		Same as	High Volume Sampler and Atomic Absorption	
	Rolling 3-Month Average	-		0.15 µg/m³	Primary Standard	recorption	
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Transmittance		No		
Sulfates	24 Hour	25 μg/m³	Ion Chromatography		National		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)			Standards		
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography				

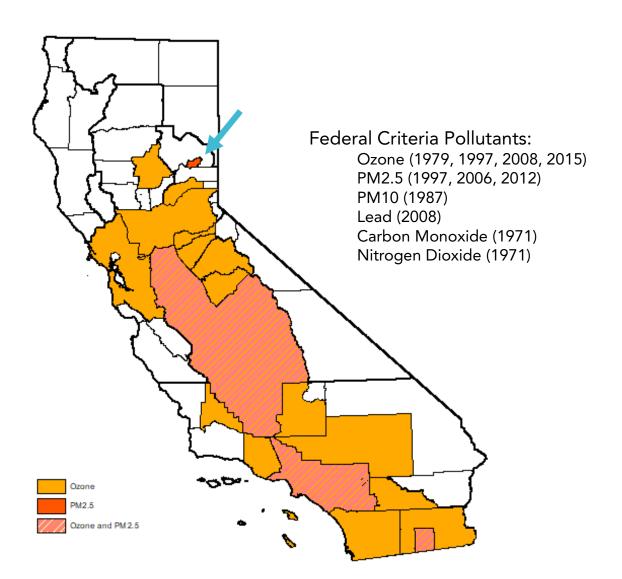
Federal Nonattainment Areas

Annual PM2.5 (2012) and 8-Hour Ozone (2008)



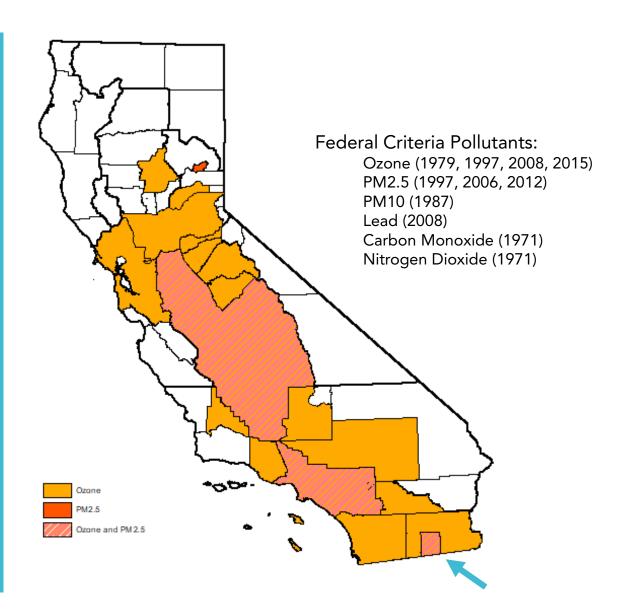
Federal Nonattainment Areas

Annual PM2.5 (2012) and 8-Hour Ozone (2008)



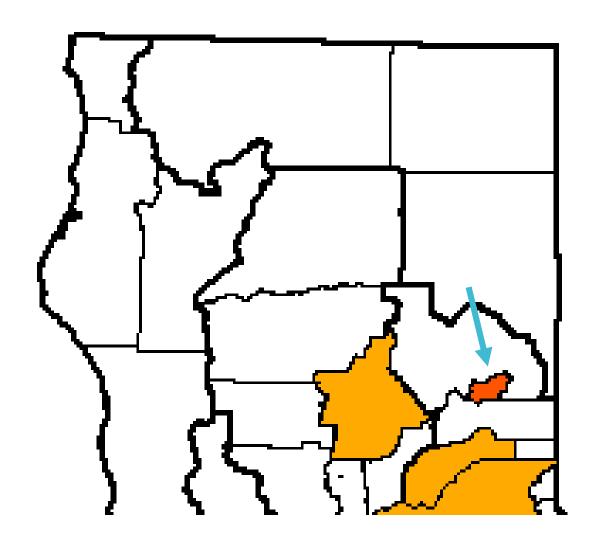
Federal Nonattainment Areas

Annual PM2.5 (2012) and 8-Hour Ozone (2008)

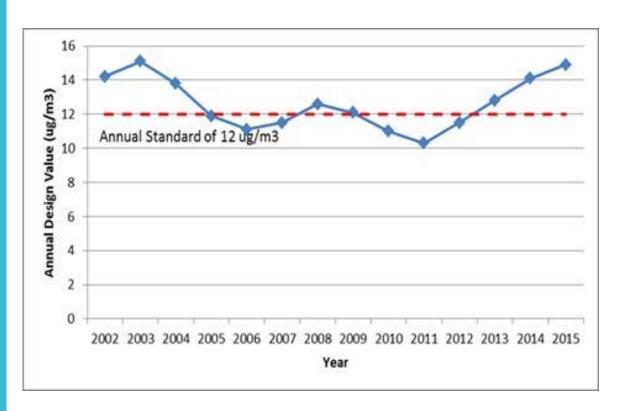




Portola Nonattainment Area

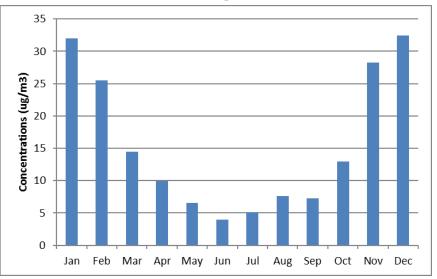


Portola Nonattainment Area

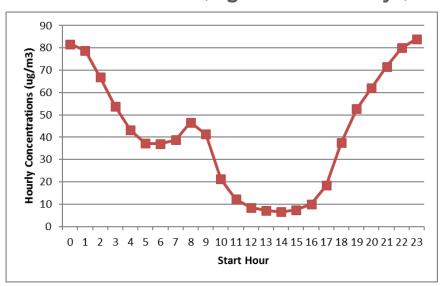


Looking for Trends

Portola Seasonality (all data)

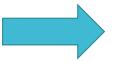


Portola Diurnal (highest winter days)

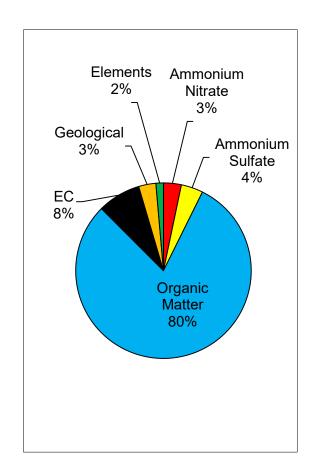


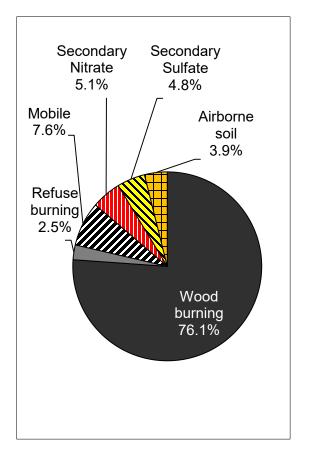
Narrowing Down the Causes

Speciation Data

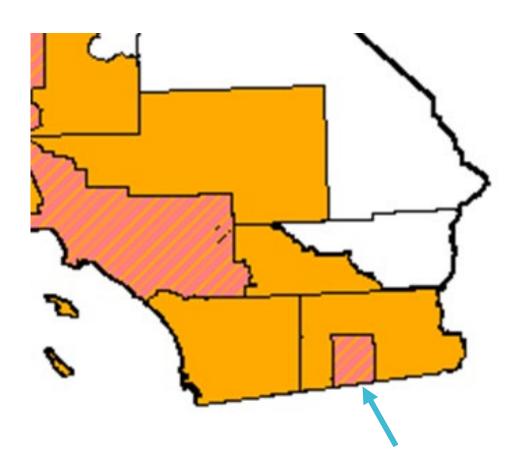


Modeled Results



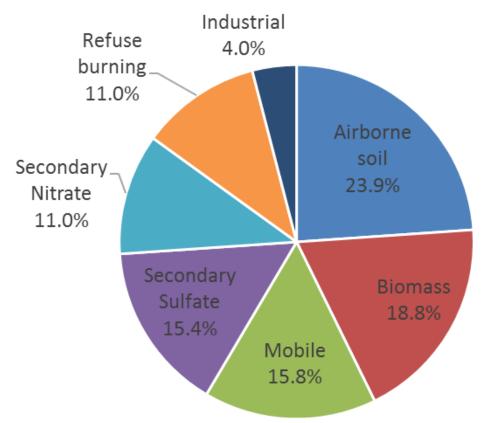


Imperial Nonattainment Area



Finding the Source

Average Source Contribution in Calexico (2011-2015)

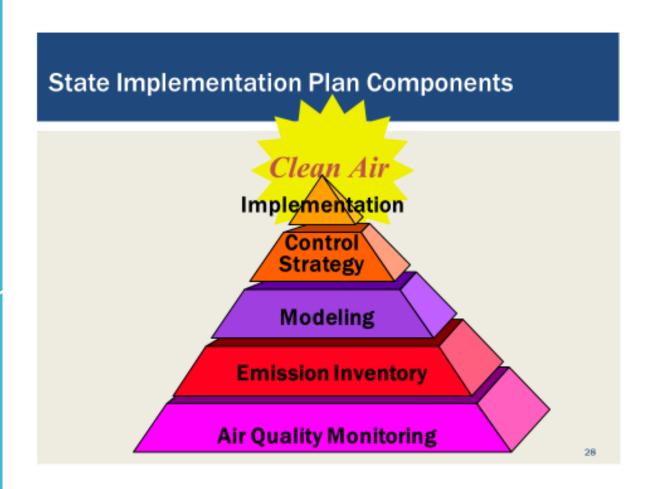


Finding the Source



Source direction: Mobile

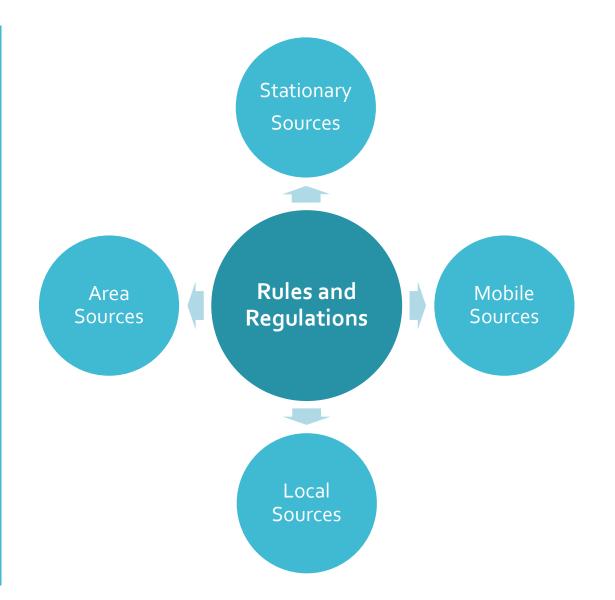
California
State
Implementation
Plan (SIP)



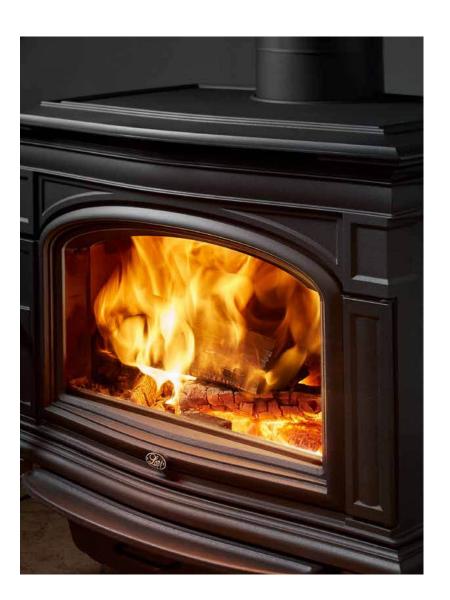
Rules and Regulations



Rules and Regulations



A Sample Rule/ Regulation



Day	Nov 17	Forecast	What	Forecast	Dec 17	Forecast	What forecast	Foreca	Jan 18	Forecast	What forecast	Forecast	eb 18	Forecast	What forecast	Forecast
			forecast	correct?			should have been		_		should have been				should have been	
1	15.6	BD	BD	Yes	47.9	UR	UR	Yes	96.9	FA	FA	Yes	48.9	UR	UR	Yes
2	24.2	BD	UR	Under	57.4	UR	UR	Yes	78.5	FA	FA	Yes	47.9	UR	UR	Yes
3	14.6	BD	BD	Yes	27.6	BD	UR	Unde	76.3	FA	FA	Yes	54.2	UR	UR	Yes
4	7.8	BD	BD	Yes	16.7	BD	BD	Yes	35	UR	UR	Yes	44	UR	UR	Yes
5	6.1	BD	BD	Yes	37.4	BD	UR	Unde	13.5	UR	BD	Over	36	UR	UR	Yes
6	12.4	BD	BD	Yes	30.9	UR	UR	Yes	9.9	UR	BD	Over	27.7	UR	UR	Yes
7	20.1	BD	UR	Under	32.7	UR	UR	Yes	14.8	BD	BD	Yes	32.1	UR	UR	Yes
8	9.3	BD	BD	Yes	34.2	UR	UR	Yes	8.2	BD	BD	Yes	28.1	UR	UR	Yes
9	2.7	BD	BD	Yes	46.3	UR	UR	Yes	6.6	BD	BD	Yes	26.9	UR	UR	Yes
10	4.8	BD	BD	Yes	57.7	UR	UR	Yes	11.3	BD	BD	Yes	21.6	BD	UR	Under
11	11.4	BD	BD	Yes	48.8	UR	UR	Yes	12.7	RD	RD	Voc	9.5	UR	BD	Over
12	19.1	BD	BD	Yes	49.6	UR	UR	Yes	17	BD	BD	Yes	8.1	BD	BD	Yes
13	16.2	BD	BD	Yes	53.7	UR	UR	Yes	27.6	BD	UR	Under	11.1	BD	BD	Yes
14	13.8	BD	BD	Yes	60.5	UR	UR	Yes	30.4	UR	UR	Yes	9	BD	BD	Yes
15	17	BD	BD	Yes	63.6	UR	UR	Yes	25.6	UR	UR	Yes	9.8	BD	BD	Yes
16	7.9	BD	BD	Yes	49.4	BD	UR	Under	23.2	UR	UR	Yes	17.6	BD	BD	Yes
17	3.6	BD	BD	Yes	38	BD	UR	Under	25.7	UR	UR	Yes	23.6	BD	UR	Under
18	15.6	BD	BD	Yes	21.8	UR	UR	Yes	28.2	UR	UR	Yes	12.6	BD	BD	Yes
19	29	BD	UR	Under					7.6	BD	BD	Yes	5.4	BD	BD	Yes
20	26.3	BD	UR	Under	10.8	BD	BD	Yes	15.4	BD	BD	Yes	11.7	BD	BD	Yes
21	29.7	UR	UR	Yes	29.8	BD	UR	Under	25.9	BD	UR	Under	15.5	BD	BD	Yes
22	35	UR	UR	Yes	33.3	BD	UR	Under	22.4	UR	UR	Yes	12.2	BD	BD	Yes
23	33.9	UR	UR	Yes	45.9	UR	UR	Yes		UR			6.3	BD	BD	Yes
24	40.8	UR	UR	Yes	63.4	UR	UR	Yes		BD			10.5	BD	BD	Yes
25	34.5	UR	UR	Yes	67.7	UR	FA	Under	5.8	BD	BD	Yes	13.8	BD	BD	Yes
26	10.2	UR	BD	Over	70.5	UR	FA	Under	17.7	BD	BD	Yes	11.7	BD	BD	Yes
27	5.5	BD	BD	Yes	50.3	FA	UR	Over	25.4	BD	UR	Under	9.6	BD	BD	Yes
28	16.2	BD	BD	Yes	54.4	UR	UR	Yes	34.1	UR	UR	Yes	12.9	BD	BD	Yes
29	25.6	BD	UR	Unde	70.1	UR	FA	Under	27.1	UR	UR	Yes				
30	36.6	UR	UR	Yes	69	UR	FA	Under	30.7	UR	UR	Yes				
31					76.5	FA	FA	Yes	40	UR	UR	Yes				
					, 5.5											

BD – Burn at own Discretion

UR – No Burn \underline{U} nless \underline{R} egistered

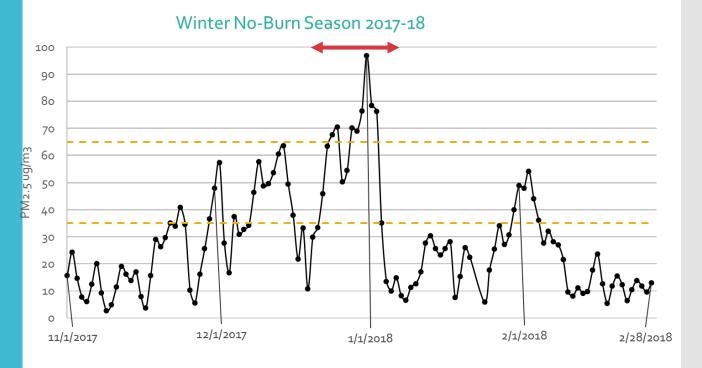
FA - No Burn For All

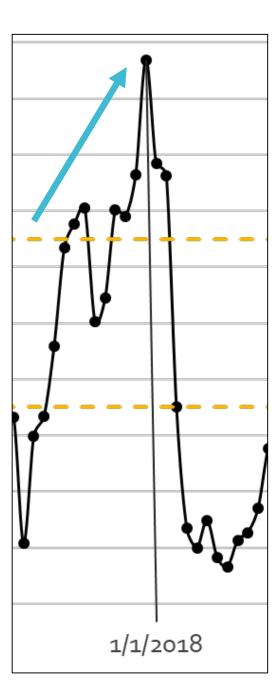
ct?	Dec_17	Forecast	What forecast should have been	Foreca t	Jan_18	Forecast	What forecast should have been	Forecast correct?	A
	47.9	UR	UR	Yes	96.9	FA	FA	Yes	
er	57.4	UR	UR	Yes	78.5	FA	FA	Yes	
	27.6	BD	UR	Unde	76.3	FA	FA	Yes	
	16.7	BD	BD	Yes	35	UR	UR	Yes	
	37.4	BID	UR	Unde	13.5	UR	BD	Over	
	30.9	UR	UR	Yes	9.9	UR	BD	Over	
er	32.7	UR	UR	Yes	14.8	BD	BD	Yes	
	34.2	UR	UR	Ye:	8.2	BD	BD	Yes	
	46.3	UR	UR	Yes	6.6	BD	BD	Yes	
	57.7	UR	UR	Yes	11.3	BD	BD	Yes	
	48.8	UR	UR	Yes	12.7	BD	BD	Yes	
	49.6	UR	UR	Yes	17	BD	BD	Yes	
	53.7	UR	UR	Yes	27.6	BD	UR	Under	1
	60.5	UR	UR	Yes	30.4	UR	UR	Yes	
	63.6	UR	UR	Yes	25.6	UR	UR	Yes	9
	49.4	BD	UR	Under	23.2	UR	UR	Yes	1
	-00	0.0	Will	WITH THE REAL PROPERTY.	25.7	UR	UR	Yes	2
	21.8	UR	UR	Yes	28.2	UR	UR	Yes	1
A	33.2	UR	UR	Yes	7.6	BD	BD	Yes	8
r	10.8	BD	BD	Yes	.5.4	BD	BD	Yes	1
	29.8	BD	UR	Under	25.9	BD	UR	Under	1
	33.3	BID	UR	Under	22,4	UR	UR	Yes	1.
	45.9	UR	UR	Yes		UR			6
	63.4	UR	UR	Yes		BD			1)
	67.7	UR	FA	Under	5.8	BD	BD	Yes	1
	70.5	UR	FA	Under	.7.7	BD	BD	Yes	1
	50.3	FA	UR	Over	25.4	BD	UR	Under	9
	54.4	UR	UR	Yes	4.1	UR	UR	Yes	1
-	70.1	UR	FA	Under	:7.1	UR	UR	Yes	
	69	UR	FA	Under	0.7	UR	UR	Yes	
	76.5	FA	FA	Yes	an	110	HP	Vine	

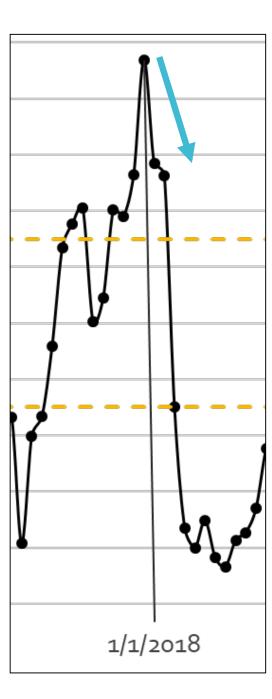
BD – Burn at own Discretion

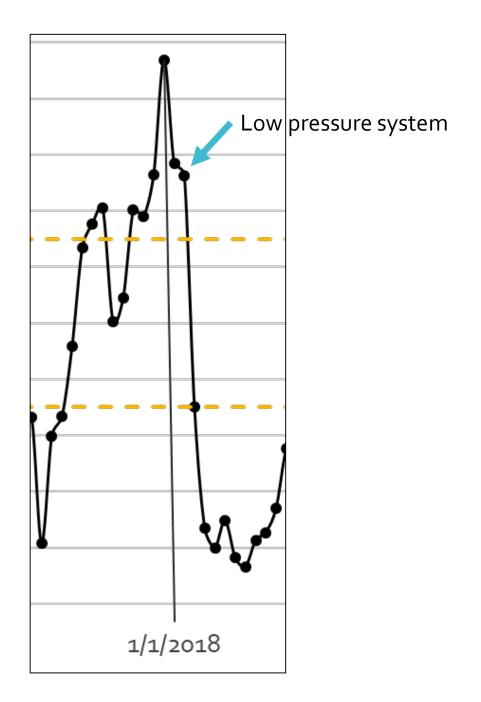
UR – No Burn <u>**Unless Registered**</u>

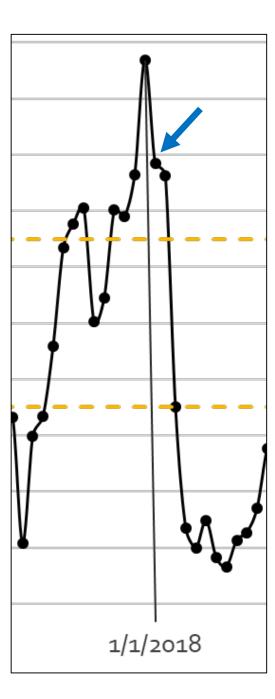
FA - No Burn For All

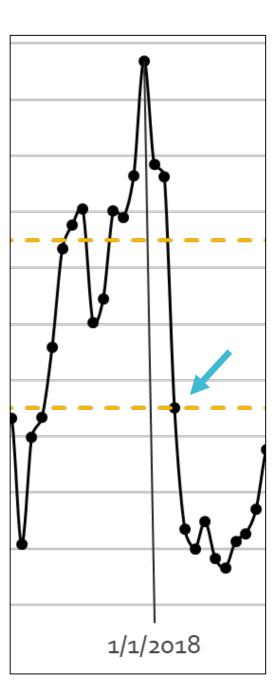








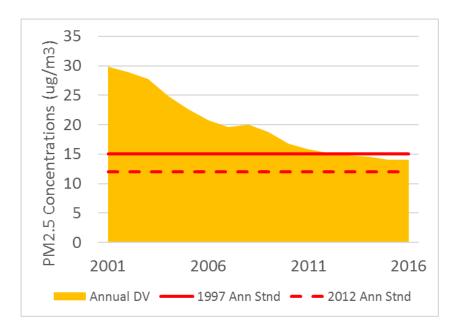


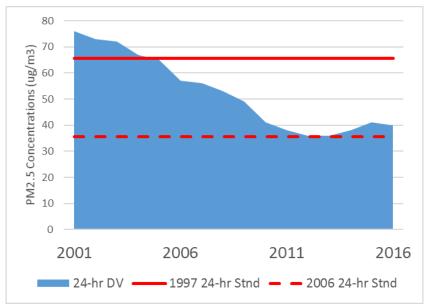


How Do We Track Our Efforts?

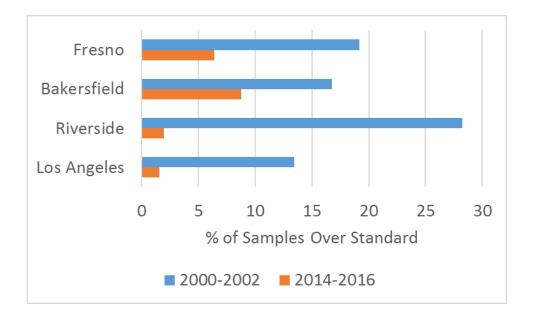


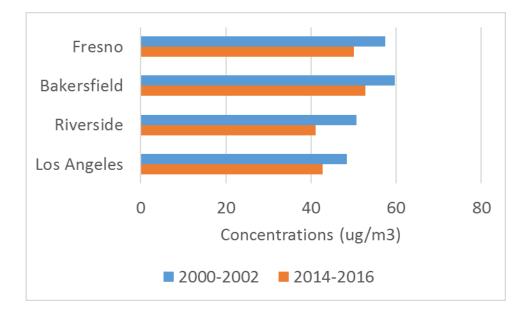
Design Value Trends





Days Over the Standard





Conclusions

- Air quality data support multiple objectives
 - SIP development and program evaluation
 - Research
 - Health effects analysis
 - Emergency response
 - Transportation and emission modeling
 - Exceptional event analysis
 - TSA audits
 - · ...and many more

Conclusions

- Helps answer fundamental questions
 - What
 - Where
 - Why
 - How

Must be

- Consistent
- Accessible
- Trustworthy

Conclusions

Conclusions



NOTHING

makes sense without quality data



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