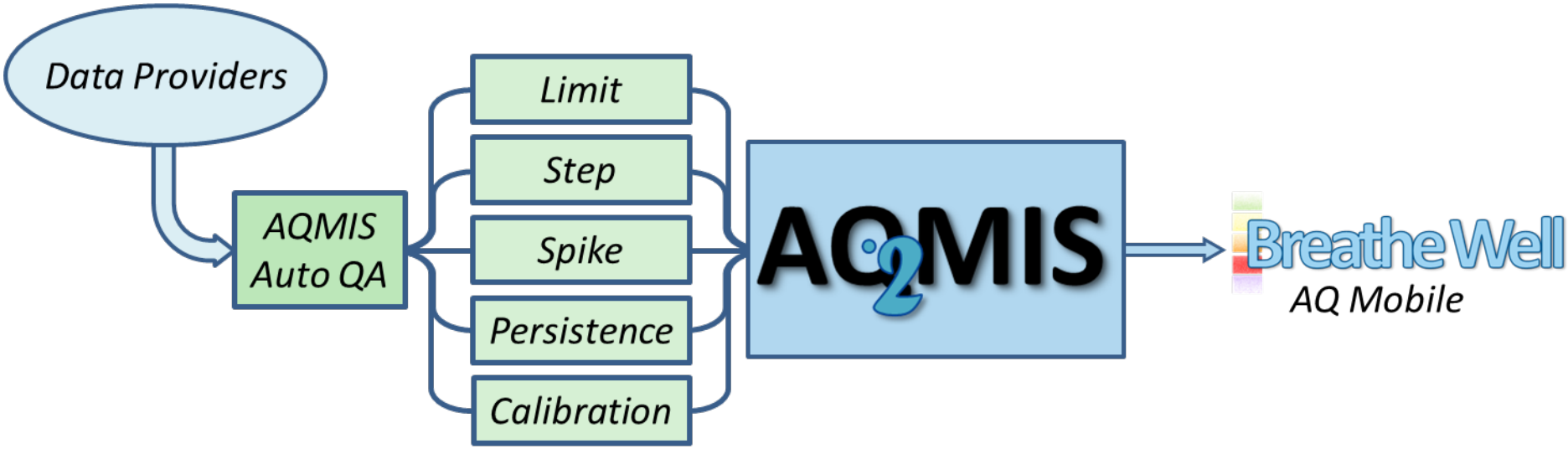
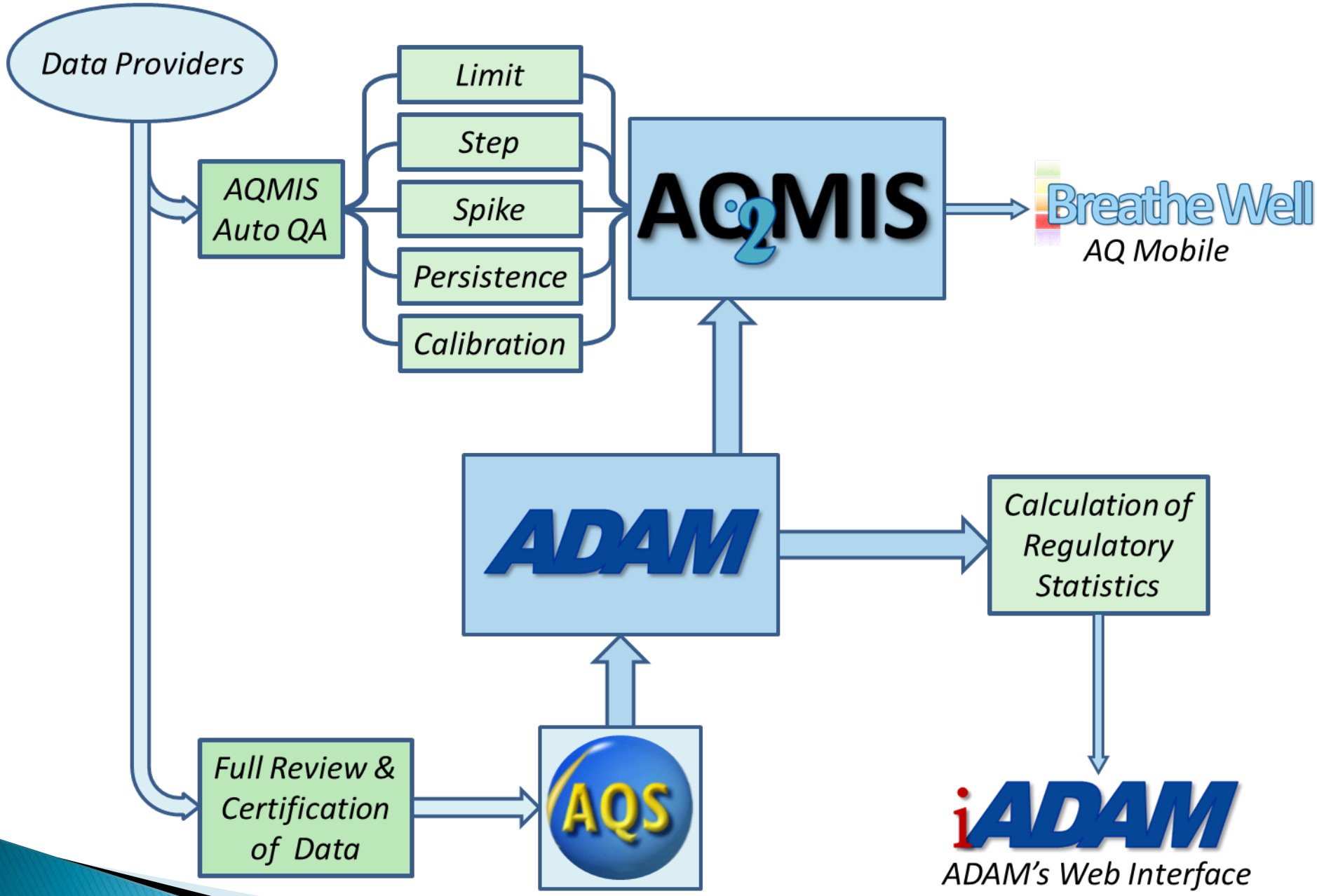
ARB's Air Quality Data Systems

AQMIS and ADAM

Mena Shah

January 24, 2017


Data Providers
AQMIS
Auto QA
Limit
Step
Spike
Persistence
Calibration
AQMIS
Breathe Well
AQ Mobile


Data Providers
AQMIS Auto QA
Limit
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Persistence
Calibration
AQMIS
Breathe Well
AQ Mobile
ADAM
Calculation of Regulatory Statistics
Full Review & Certification of Data
AQS
iADAM
ADAM's Web Interface

History of AQMIS

- **1990s** – Contract with Chico State
- **2004** – ARB – AQMIS II
- **2008** – Merged database
- **2013** – Breathe Well mobile application
- **2016** – Continuously running

AQMIS

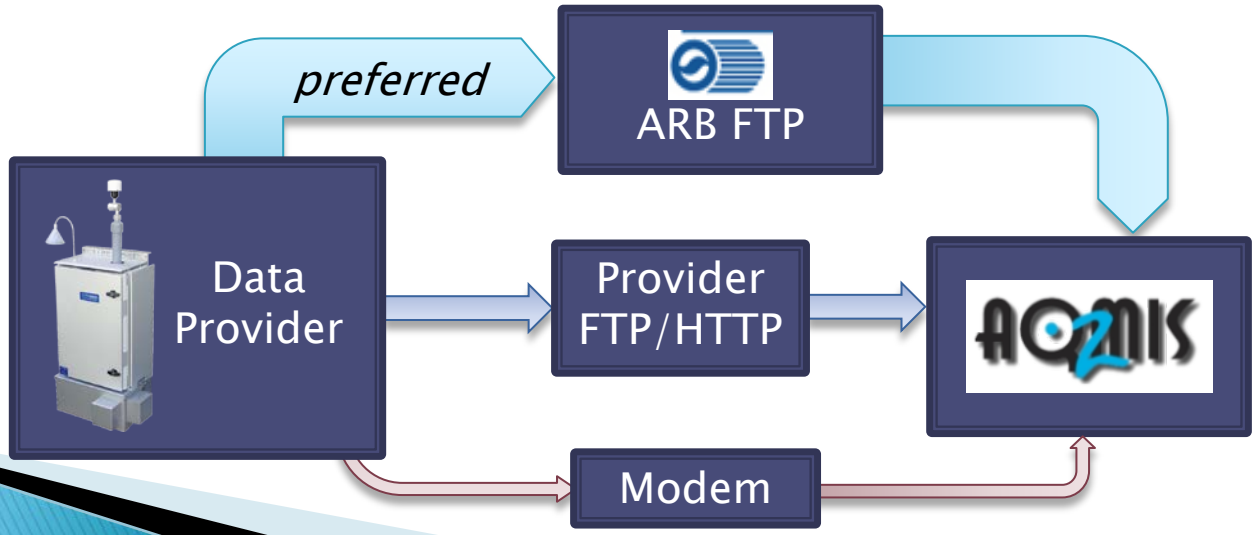
- Raw hourly data
  - 25 air quality parameters
  - 16 meteorological parameters
- Automated quality assurance routines
  - Improved data capture – issues become apparent sooner
- Map displays of hourly data
- Data download and Graphing capability
- Mobile Web "Breathe Well" (https://mobile.arb.ca.gov/breathewell)

AQMIS Data Sources

- Air Quality
  - Over 260 sites in California
  - 31 sites in Mexico
- California's local districts, ARB, and various national sources
- Air quality data from special studies, temporary sites, and events
- Meteorological
  - Air quality sites
  - Exclusive meteorological sites

AQMIS Data Streams

- AQMIS gets preliminary data in 3 ways:
  - Providers send data file to the ARB-owned FTP server. This is the preferred method.
  - AQMIS pulls data file from the provider's FTP or HTTP site.
  - Least preferred method: AQMIS dials provider's modem.
- ADAM official data replace preliminary data in AQMIS



Network Changes

- Preferred: Set up the new site and monitors in USEPA's AQS system
- Contact AQMIS through email at aqmis@arb.ca.gov
  - New sites
  - Moving sites
  - Terminated sites
- The new site information in USEPA's AQS system will propagate into AQMIS and ADAM databases

New and Future Developments in AQMIS

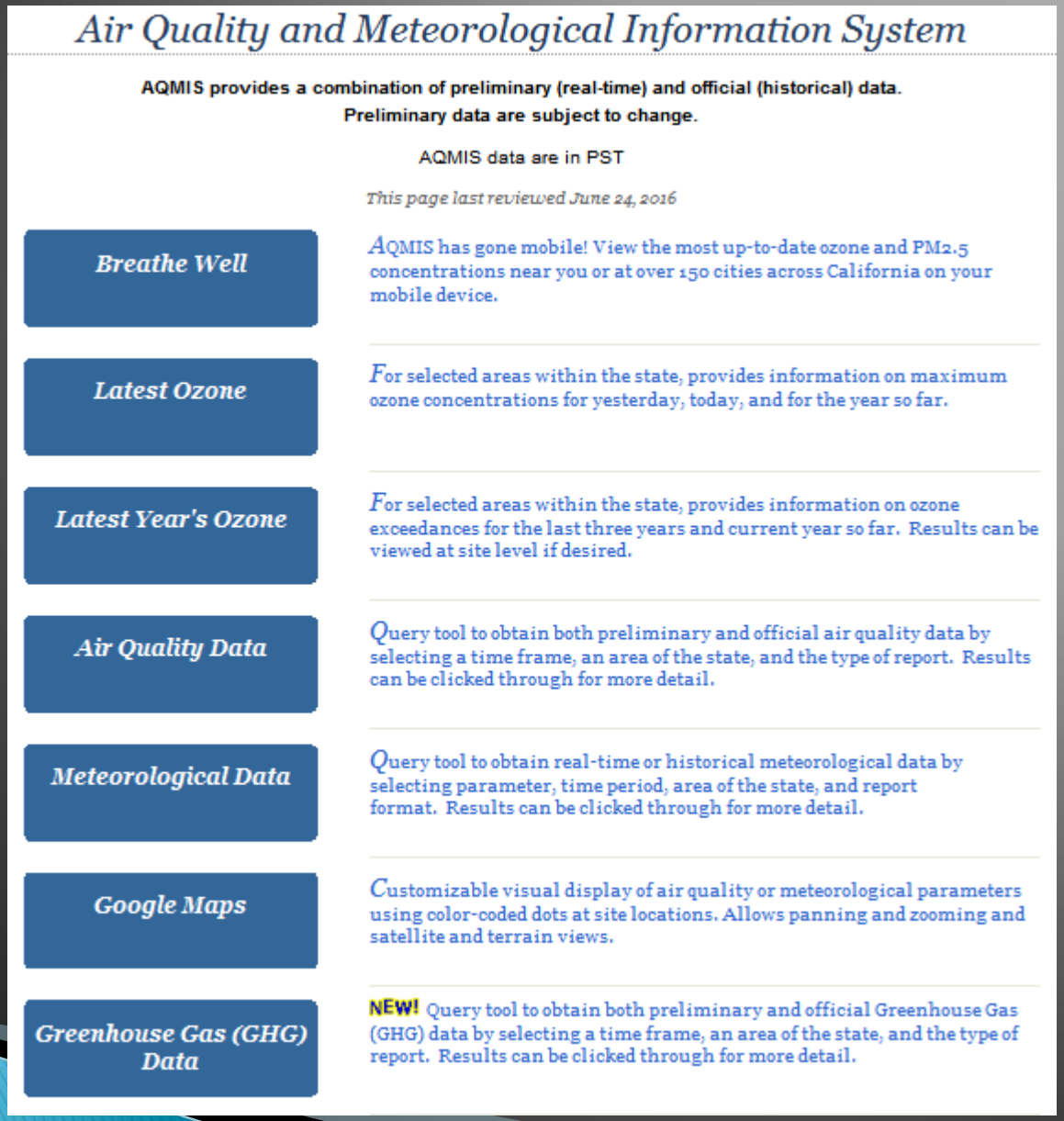
New:

- ARB's Greenhouse Gas Monitoring Network
  - CH_4, CO, CO_2, & N_2O at 5 sites in CA
- Near-Roadway sites

Future:

- Statistics related to the newly promulgated 2015 8-hr ozone standard of 0.070 ppm
- Long-term trends of ozone

AQMIS Main Page



Air Quality and Meteorological Information System

AQMIS provides a combination of preliminary (real-time) and official (historical) data.
Preliminary data are subject to change.

AQMIS data are in PST

This page last reviewed June 24, 2016

Breathe Well	AQMIS has gone mobile! View the most up-to-date ozone and PM2.5 concentrations near you or at over 150 cities across California on your mobile device.
Latest Ozone	For selected areas within the state, provides information on maximum ozone concentrations for yesterday, today, and for the year so far.
Latest Year's Ozone	For selected areas within the state, provides information on ozone exceedances for the last three years and current year so far. Results can be viewed at site level if desired.
Air Quality Data	Query tool to obtain both preliminary and official air quality data by selecting a time frame, an area of the state, and the type of report. Results can be clicked through for more detail.
Meteorological Data	Query tool to obtain real-time or historical meteorological data by selecting parameter, time period, area of the state, and report format. Results can be clicked through for more detail.
Google Maps	Customizable visual display of air quality or meteorological parameters using color-coded dots at site locations. Allows panning and zooming and satellite and terrain views.
Greenhouse Gas (GHG) Data	**NEW!** Query tool to obtain both preliminary and official Greenhouse Gas (GHG) data by selecting a time frame, an area of the state, and the type of report. Results can be clicked through for more detail.

Latest Year's Ozone Summary
(In development)

- Breathe Well
- Latest Ozone
- Latest Year's Ozone
- Air Quality Data
- Meteorological Data
- Google Maps
- Greenhouse Gas (GHG) Data

Latest Year's (Annual) Ozone Summaries for Selected Regions (PST)

Data on this page extracted on October 27, 2016 at 14:28:15

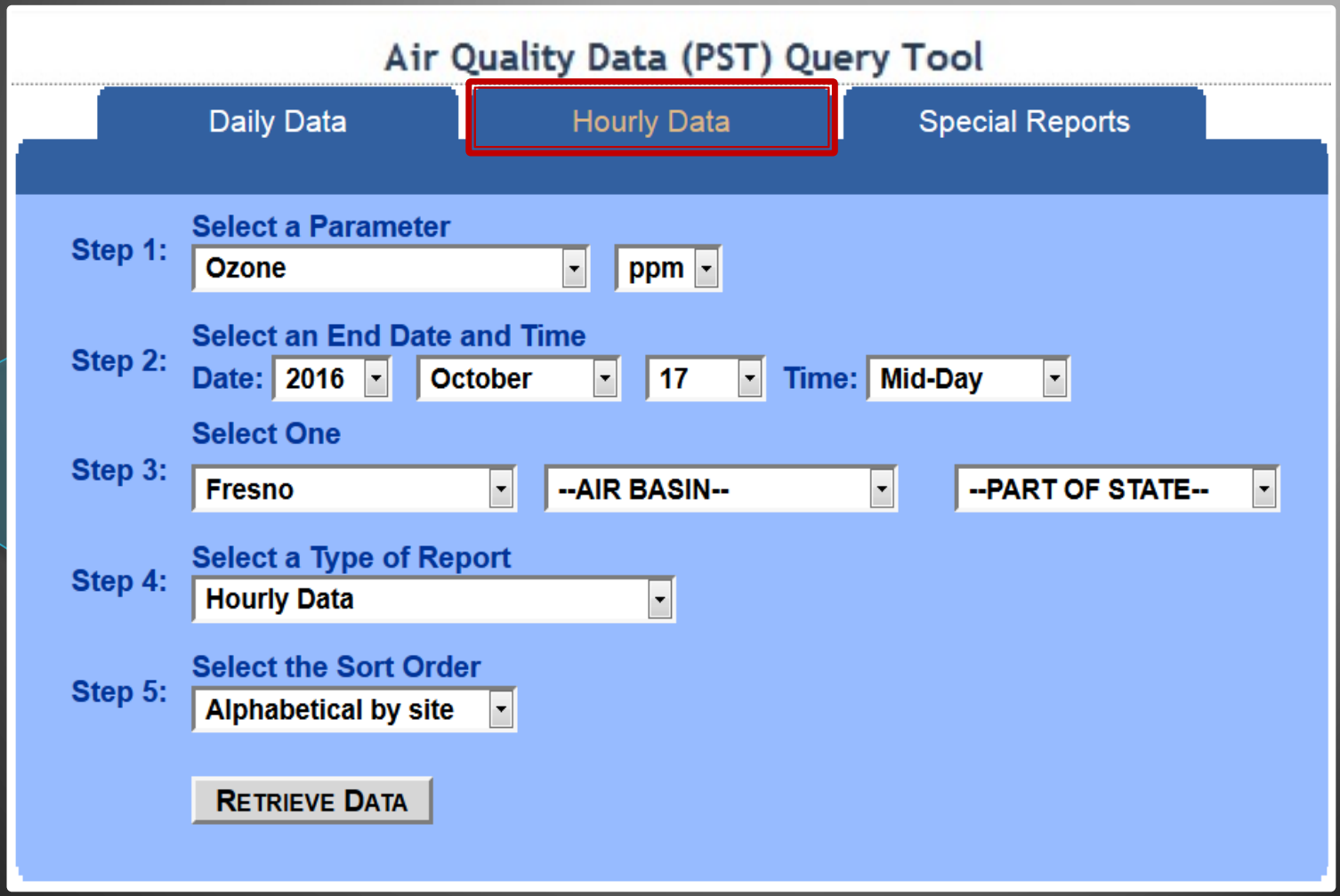
Year 2013, 2014 and 2015 are whole years
Year 2016 data are through 10/27/2016

Click Here to view data for all years through yesterday

Region	Year	Exceedance Days[2]			Maximum Concentration (ppm)[3]		National Design Value (ppm)[4]	
		State 8-hr Std	National 8-hr Std					
		0.070 ppm	0.075 ppm	0.070 ppm	1-hr	8-hr	8-hr Std 0.075 ppm	8-hr Std 0.070 ppm
Sacramento Metropolitan Area[5]	2013	30	16	30	0.117	0.087	0.09	0.09
	2014	54	29	51	0.107	0.09	0.085	0.085
	2015[1]	38	15	36	0.122	0.1	0.081	0.081
	2016[1]	38	27	5	0.114	0.099	N/A	0.079
San Diego Air Basin	2013	28	7	25	0.095	0.082	0.08	0.08
	2014	36	12	33	0.1	0.087	0.079	0.079
	2015[1]	36	13	34	0.098	0.084	0.079	0.079
	2016[1]	30	11	9	0.1	0.087	N/A	0.077

Air Quality Data Query

- Breathe Well
- Latest Ozone
- Latest Year's Ozone
- Air Quality Data
- Meteorological Data
- Google Maps
- Greenhouse Gas (GHG) Data



Hourly Data Display

- Breathe Well
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- Latest Year's Ozone
- Air Quality Data
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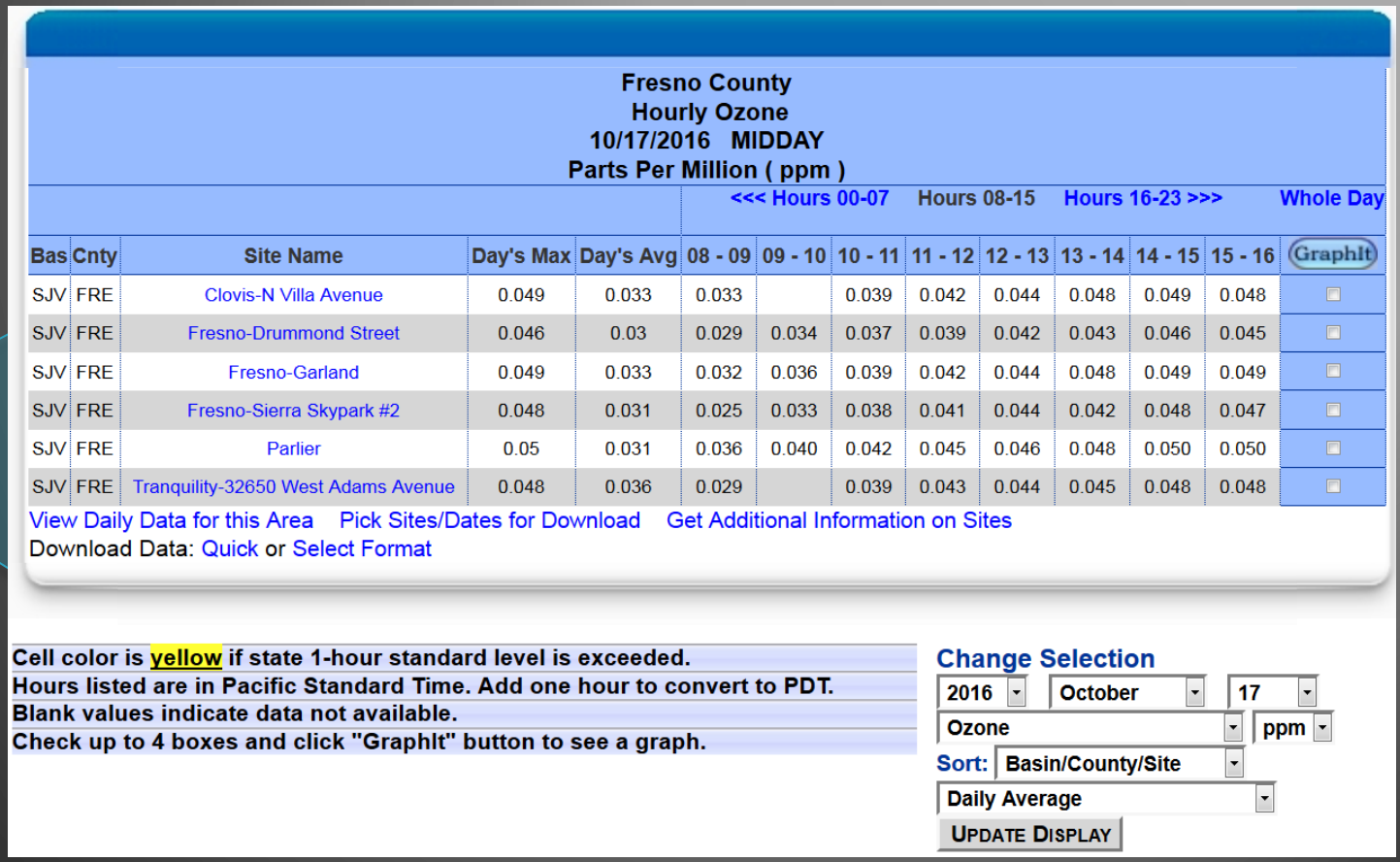
- Google Maps
- Greenhouse Gas (GHG) Data



Fresno County
Hourly Ozone
10/17/2016 MIDDAY
Parts Per Million (ppm)

					<<< Hours 00-07			Hours 08-15			Hours 16-23 >>>		Whole Day
Bas	Cnty	Site Name	Day's Max	Day's Avg	08 - 09	09 - 10	10 - 11	11 - 12	12 - 13	13 - 14	14 - 15	15 - 16	GraphIt
SJV	FRE	Clovis-N Villa Avenue	0.049	0.033	0.033		0.039	0.042	0.044	0.048	0.049	0.048	
SJV	FRE	Fresno-Drummond Street	0.046	0.03	0.029	0.034	0.037	0.039	0.042	0.043	0.046	0.045	
SJV	FRE	Fresno-Garland	0.049	0.033	0.032	0.036	0.039	0.042	0.044	0.048	0.049	0.049	
SJV	FRE	Fresno-Sierra Skypark #2	0.048	0.031	0.025	0.033	0.038	0.041	0.044	0.042	0.048	0.047	
SJV	FRE	Parlier	0.05	0.031	0.036	0.040	0.042	0.045	0.046	0.048	0.050	0.050	
SJV	FRE	Tranquility-32650 West Adams Avenue	0.048	0.036	0.029		0.039	0.043	0.044	0.045	0.048	0.048	

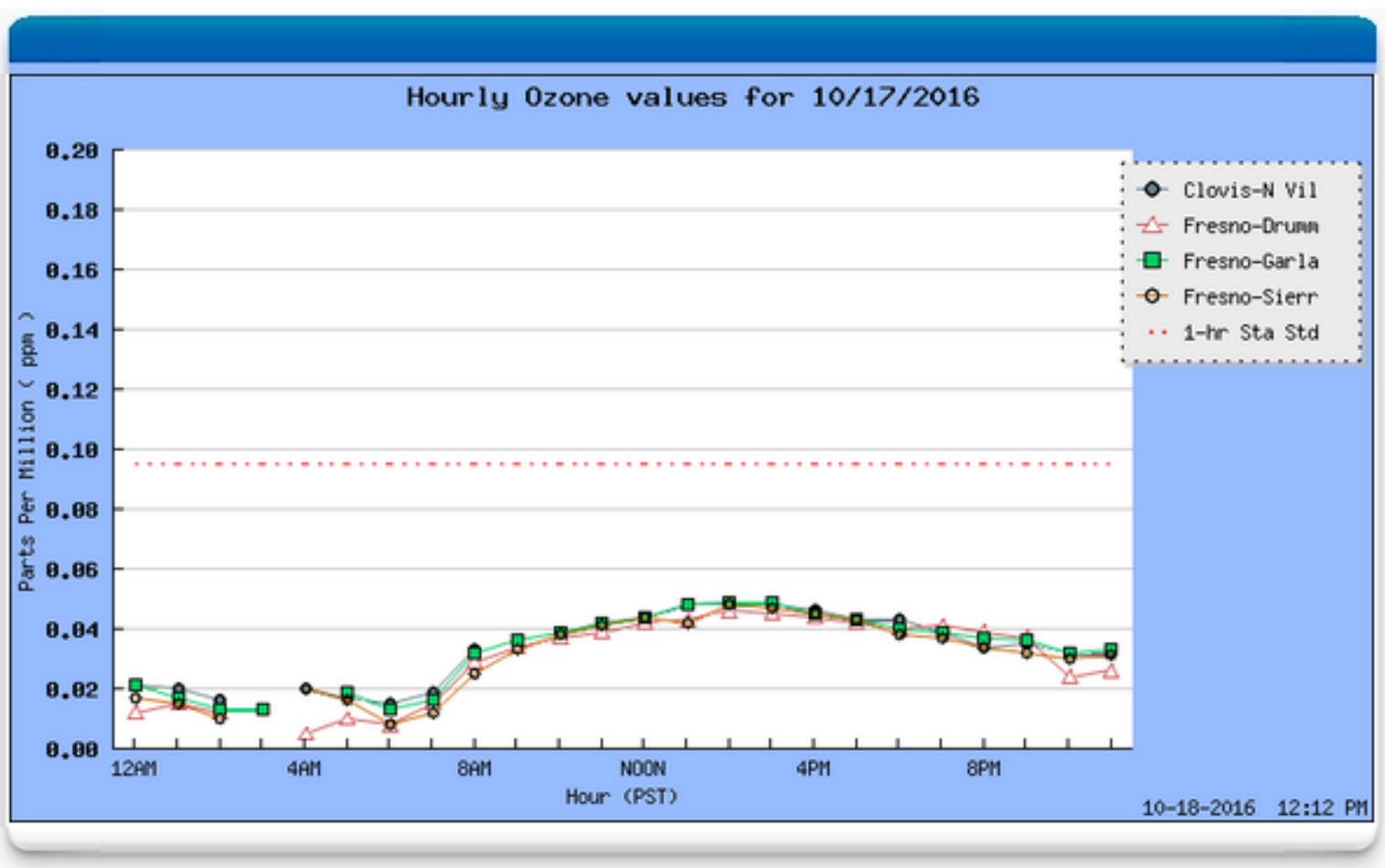
View Daily Data for this Area Pick Sites/Dates for Download Get Additional Information on Sites
Download Data: Quick or Select Format

Cell color is yellow if state 1-hour standard level is exceeded.
Hours listed are in Pacific Standard Time. Add one hour to convert to PDT.
Blank values indicate data not available.
Check up to 4 boxes and click "GraphIt" button to see a graph.

Change Selection
2016 | October | 17
Ozone | ppm
Sort: Basin/County/Site
Daily Average
UPDATE DISPLAY

Hourly Data Graph

- Breathe Well
- Latest Ozone
- Latest Year's Ozone
- Air Quality Data
- Meteorological Data
- Google Maps
- Greenhouse Gas (GHG) Data



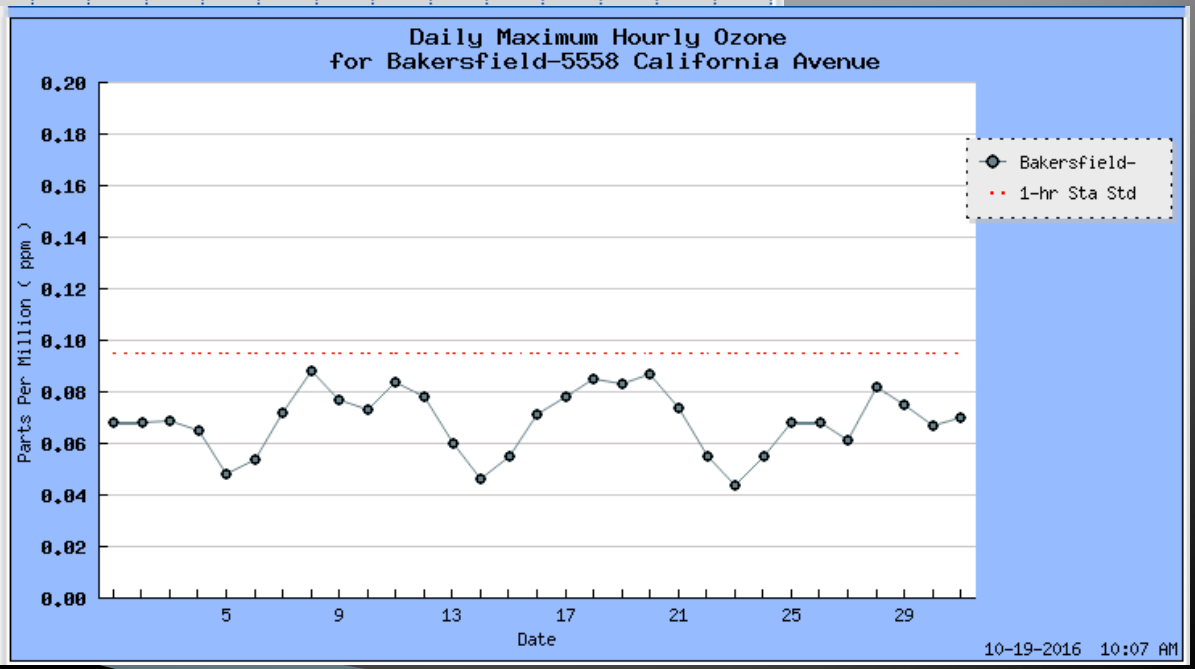
Monthly Data Display

31 Day Summary for Hourly Ozone
for Bakersfield-5558 California Avenue
Display Ends 09/30/2016
Parts Per Million (ppm)

GraphIt

Hours 00-07 Hours 08-15 Hours 16-23

Date	Day's Max	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	12 - 13	13 - 14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 00
09/30	0.070	0.028	0.027	0.031	0.020		0.001	0.002	0.013	0.036	0.043	0.053	0.059	0.066	0.070	0.069	0.066	0.067	0.062	0.045	0.033	0.034	0.034	0.039	0.036
09/29	0.067	0.007	0.004	0.004	0.000		0.000	0.002	0.010	0.026	0.042	0.056	0.064	0.067	0.063	0.063	0.064	0.065	0.060	0.049	0.040	0.038	0.037	0.036	0.030
09/28	0.075	0.006	0.001	0.000	0.000		0.000	0.002	0.015	0.040	0.058	0.069	0.072	0.072	0.073	0.075	0.052	0.042	0.042	0.037	0.031	0.020	0.016	0.013	0.010
09/27	0.082	0.006	0.001	0.001	0.001		0.000	0.002	0.014	0.035	0.057	0.073	0.080	0.082	0.082	0.082	0.079	0.076	0.076	0.053	0.045	0.024	0.003	0.011	0.010
09/26	0.061	0.018	0.018	0.012	0.007		0.001	0.002	0.004	0.013	0.021														
09/25	0.068	0.020	0.016	0.014	0.017		0.013	0.008	0.015	0.040	0.054	0.(													
09/24	0.068	0.015	0.014	0.018	0.020		0.010	0.011	0.025	0.042	0.050	0.(													
09/23	0.055	0.021	0.011	0.006	0.002		0.000	0.002	0.015	0.032	0.037	0.(													
09/22	0.044	0.031	0.028	0.027	0.029		0.020	0.016	0.025	0.030	0.032	0.(													
09/21	0.055	0.001	0.007	0.008	0.002		0.005	0.002	0.014	0.035		0.(													
09/20	0.074	0.026	0.023	0.020	0.017		0.010	0.002	0.002	0.018	0.040	0.(													
09/19	0.087	0.021	0.023	0.017	0.017		0.005	0.009	0.024	0.042	0.064	0.(													



Annual Summaries

By Year

Multiyear Ozone
for San Joaquin Valley Air Basin ending in 2016
Parts Per Million (ppm)

Year	Exceedance Days			Maximum Concentration	
	State		National		
	1-hr	8-hr	8-hr	1-hr	8-hr
2016*	51	112	88	0.131	0.101
2015*	47	99	82	0.135	0.110
2014	52	140	95	0.128	0.104
2013	41	112	89	0.123	0.106
2012	72	134	105	0.135	0.116

By Site

San Joaquin Valley Air Basin
Annual Ozone Summary Data
2016
Parts Per Million (ppm)

Basin	County	Monitoring Site	Exceedance Days			Maximum Concentration		Ozone
			State		National	Parts Per Million (ppm)		Season
			1-hr	8-hr	8-hr	1-hr	8-hr	Covered (%)
SJV	Fresno	Clovis-N Villa Avenue	26	63	46	0.113	0.095	33
SJV	Fresno	Fresno-Drummond Street	13	60	32	0.117	0.093	
SJV	Fresno	Fresno-Garland	15	58	37	0.117	0.091	1
SJV	Fresno	Fresno-Sierra Skypark #2	6	45	26	0.108	0.089	58
SJV	Fresno	Parlier	28	79	52	0.131	0.101	15
SJV	Fresno	Tranquility-32650 West Adams Avenue	0	21	7	0.093	0.081	0

Air Quality Data Query

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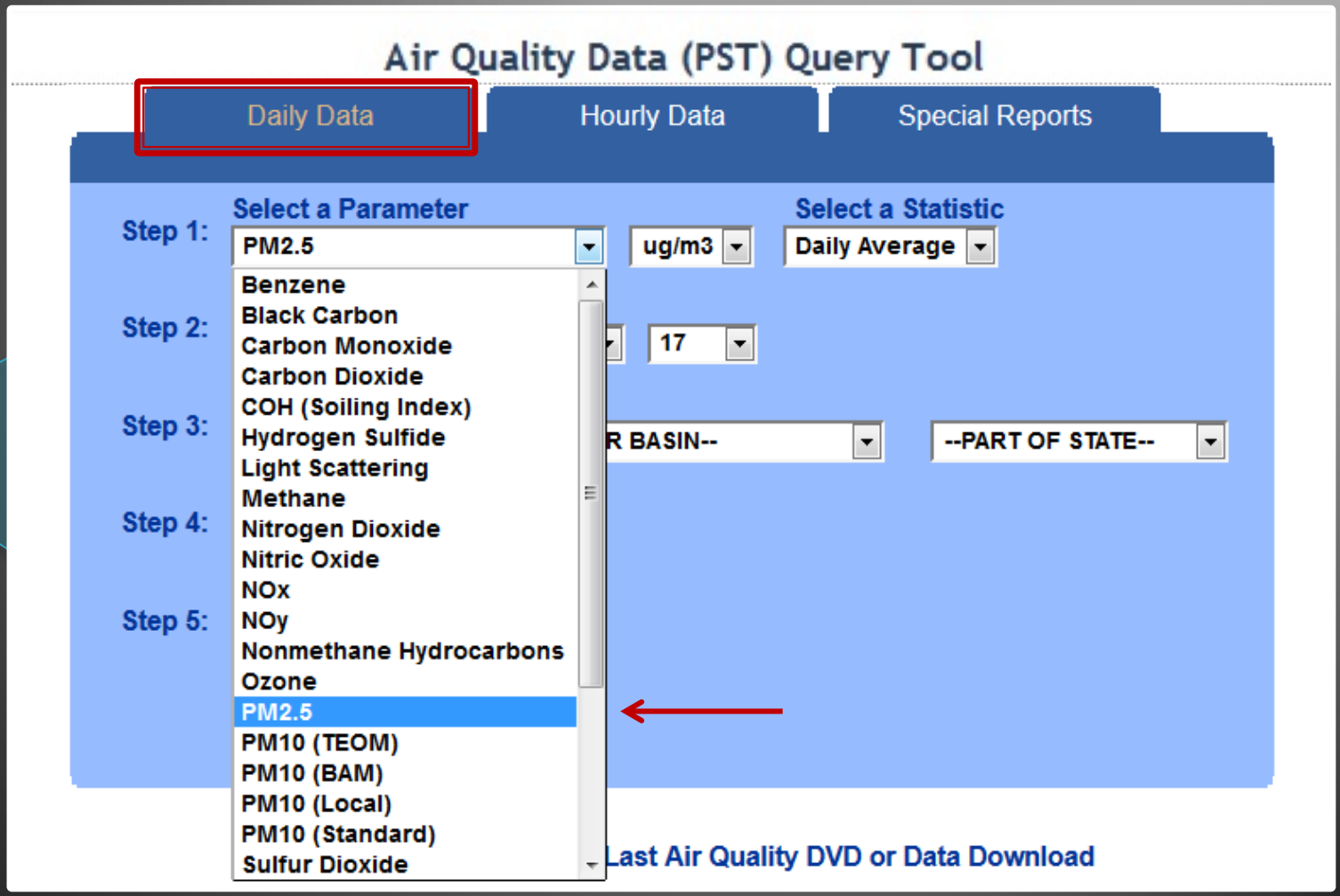

24-hour Average PM2.5 BAM

- Breathe Well
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Clovis-N Villa Avenue (D)
Daily Average PM25 Hourly Data
2015
Micrograms/Cubic Meter (ug/m^3)

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	24.8	32.5	5.4	5.0	9.3	8.8	16.0	11.1	12.6	13.0	12.4	28.8
2	18.6	28.5	3.6	5.1	4.6	6.2	16.3	13.8	11.9	10.5	3.6	36.0
3	23.5	38.5	7.1	9.8	5.8	5.8	13.1	13.3	6.6	10.5	6.4	15.5
4	31.5	21.0	15.5	8.7	9.4	7.6	17.0	11.9	7.4	9.9	15.5	7.2
5	30.4	4.9	9.0	2.5	11.0	9.5	12.4	15.8	6.5	8.1	18.0	22.0
6	38.2	7.2	11.6	1.6	8.2	10.0	9.5	16.5	10.3	11.2	21.5	25.2
7	45.8	5.1	18.3	3.8		8.0	12.5	17.8	19.8	17.1	24.3	25.4
8	57.3		12.8	2.8		13.9	11.1	20.0	28.4	21.8	18.1	30.0
9	64.2	4.0	14.2	13.1		15.7	10.1	17.6	34.3	24.7		40.7
10	66.4	12.3	10.9	14.0		9.1	12.5	10.8	27.3	19.3	7.7	34.9
11	80.8	25.5	10.6	4.8		12.6	11.6	8.9	26.3	14.2	17.4	9.1
12	64.4		18.9	7.5	8.1	14.5	11.9	10.8	19.3	16.6	18.8	18.1
13	53.3		21.5	10.6	7.5	13.4	16.7	10.5	20.3	17.6	30.8	17.6
14	37.5		10.5	3.8	6.1	14.7	11.0	10.0	22.4	16.8	34.7	6.2
15	24.1		7.0	7.6	6.1	14.4	11.9	14.3	8.6	18.5	25.2	14.9
16	26.6		7.5	9.5	7.6	16.7	14.7	23.4	4.5	19.3	4.7	19.8
17	32.2		7.9	10.8	8.8	15.8	15.0	22.6	8.1	15.5	13.9	32.9
18	29.6		4.5	10.3	6.8	12.5	14.6	32.0	10.1	3.8	20.1	23.2
19	26.4		9.9	10.3	8.6	9.7	15.8	22.8	13.5	6.5	25.0	23.8
20	12.6		16.6	11.5	9.5	10.7	17.9	16.8	20.7	12.7	33.6	13.1
21	8.0		9.5	10.0	9.1	6.9	13.4	22.8	15.1	13.7	35.9	10.0
22	17.6		6.6	11.3	8.2	8.3	9.7	14.7	10.7	14.8	26.0	1.6
23	20.3		4.7	14.9	10.9	9.7	10.7	19.1	9.9	16.1	21.4	4.6
24	27.2		5.6	6.8	12.3	13.6	9.3	13.7	15.9	19.9	26.1	11.3
25	17.3		10.5	4.6	10.2	20.6	8.2	12.8	15.6	19.1	8.6	12.1
26	31.5		10.2	6.9	8.5	19.3	11.2	12.8	7.2	18.6	13.2	18.6
27	16.5	16.0	11.2	14.3	9.3	17.5	11.9	12.4	12.1	19.2	17.7	27.6
28	21.0	2.5	9.0	10.7	9.8	12.5	14.3	14.1	18.7	11.4	19.9	18.8
29	33.8		12.1	10.8	10.6	13.6	19.4	11.9	15.0	15.8	23.8	20.3
30	36.6		11.9	11.5	10.6	18.5	20.7	9.5	14.5	15.5	21.6	24.0
31	43.5		5.3		8.3		20.8	10.9		12.4		36.5
MAX:	80.8	38.5	21.5	14.9	12.3	20.6	20.8	32.0	34.3	24.7	35.9	40.7

24-hour Average PM2.5 BAM

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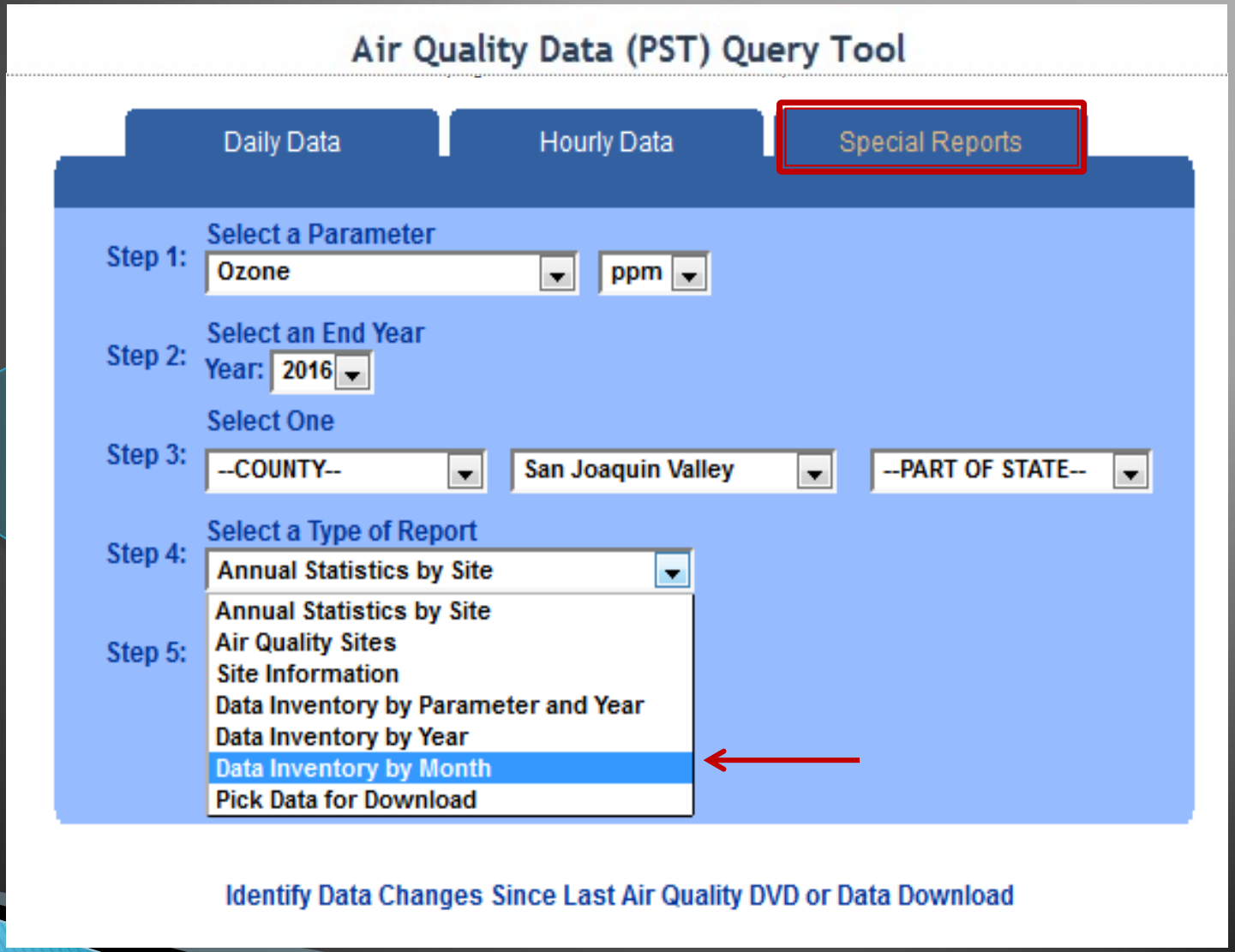
4	31.5	21.0	15.5	8.7	9.4	7.6	17.0	11.9	7.4	9.9	15.5	7.2
5	30.4	4.9	9.0	2.5	11.0	9.5	12.4	15.8	6.5	8.1	18.0	22.0
6	38.2	7.2	11.6	1.6	8.2	10.0	9.5	16.5	10.3	11.2	21.5	25.2
7	45.8	5.1	18.3	3.8		8.0	12.5	17.8	19.8	17.1	24.3	25.4
8	57.3		12.8	2.8		13.9	11.1	20.0	28.4	21.8	18.1	30.0
9	64.2	4.0	14.2	13.1		15.7	10.1	17.6	34.3	24.7		40.7
10	66.4	12.3	10.9	14.0		9.1	12.5	10.8	27.3	19.3	7.7	34.9
11	80.8	25.5	10.6	4.8		12.6	11.6	8.9	26.3	14.2	17.4	9.1
12	64.4		18.9	7.5	8.1	14.5	11.9	10.8	19.3	16.6	18.8	18.1
13	53.3		21.5	10.6	7.5	13.4	16.7	10.5	20.3	17.6	30.8	17.6
14	37.5		10.5	3.8	6.1	14.7	11.0	10.0	22.4	16.8	34.7	6.2
15	24.1		7.0	7.6	6.1	14.4	11.9	14.3	8.6	18.5	25.2	14.9
16	26.6		7.5	9.5	7.6	16.7	14.7	23.4	4.5	19.3	4.7	19.8
17	32.2		7.9	10.8	8.8	15.8	15.0	22.6	8.1	15.5	13.9	32.9
18	29.6		4.5	10.3	6.8	12.5	14.6	32.0	10.1	3.8	20.1	23.2
19	26.4		9.9	10.3	8.6	9.7	15.8	22.8	13.5	6.5	25.0	23.8
20	12.6		16.6	11.5	9.5	10.7	17.9	16.8	20.7	12.7	33.6	13.1
21	8.0		9.5	10.0	9.1	6.9	13.4	22.8	15.1	13.7	35.9	10.0
22	17.6		6.6	11.3	8.2	8.3	9.7	14.7	10.7	14.8	26.0	1.6
23	20.3		4.7	14.9	10.9	9.7	10.7	19.1	9.9	16.1	21.4	4.6
24	27.2		5.6	6.8	12.3	13.6	9.3	13.7	15.9	19.9	26.1	11.3
25	17.3		10.5	4.6	10.2	20.6	8.2	12.8	15.6	19.1	8.6	12.1
26	31.5		10.2	6.9	8.5	19.3	11.2	12.8	7.2	18.6	13.2	18.6
27	16.5	16.0	11.2	14.3	9.3	17.5	11.9	12.4	12.1	19.2	17.7	27.6
28	21.0	2.5	9.0	10.7	9.8	12.5	14.3	14.1	18.7	11.4	19.9	18.8
29	33.8		12.1	10.8	10.6	13.6	19.4	11.9	15.0	15.8	23.8	20.3
30	36.6		11.9	11.5	10.6	18.5	20.7	9.5	14.5	15.5	21.6	24.0
31	43.5		5.3		8.3		20.8	10.9		12.4		36.5
MAX:	80.8	38.5	21.5	14.9	12.3	20.6	20.8	32.0	34.3	24.7	35.9	40.7

Monthly Inventory Query

- Breathe Well
- Latest Ozone
- Latest Year's Ozone
- Air Quality Data
- Meteorological Data
- Google Maps
- Greenhouse Gas (GHG) Data



Monthly Inventory

- Breathe Well
- Latest Ozone
- Latest Year's Ozone
- Air Quality Data
- Meteorological Data
- Google Maps
- Greenhouse Gas (GHG) Data

San Joaquin Valley Air Basin
Monthly Data Availability for Ozone Data
2016

Bas	Cnty	Site Name	Daily	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
SJV	FRE	Clovis-N Villa Avenue	D	H	H	H	H	H	H	H p	H p	H p	H p	H p	H p
SJV	FRE	Fresno-Drummond Street	D	H p	H p	H p	H p	H p	H p	H p	H p	H p	H p	H p	H p
SJV	FRE	Fresno-Garland	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p
SJV	FRE	Fresno-Sierra Skypark #2	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	FRE	Parlier	D	H	H	H	H	H	H p	H p	H p	H p	H p	H p	H p
SJV	FRE	Tranquility-32650 West Adams Avenue	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	KER	Arvin-Di Giorgio	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Bakersfield-5558 California Avenue	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Bakersfield-Municipal Airport	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	KER	Edison	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Maricopa-Stanislaus Street	D	H	H	H	H	H	H	H	H	H p	H p	H p	H p
SJV	KER	Oildale-3311 Manor Street	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Shafter-Walker Street	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KIN	Hanford-S Irwin Street	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	MAD	Madera-28261 Avenue 14	D	H	H	H	H	H	H	H p	H p	H p	H p	H p	H p
SJV	MAD	Madera-Pump Yard	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	MER	Merced-S Coffee Avenue	D	H p	H p	H p	H p	H p	H	H	H	H	H p	H p	H p
SJV	SJ	Stockton-Hazelton Street	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p
SJV	SJ	Tracy-Airport	D	H	H	H	H	H	H p	H p	H p	H p	H p	H p	H p
SJV	STA	Modesto-14th Street	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p
SJV	STA	Turlock-S Minaret Street	D	H	H	H	H	H	H	H	H	H p	H p	H p	H p
SJV	TUL	Porterville-1839 Newcomb Street	D	H	H	H	H	H	H p	H	H	H p	H p	H p	H p
SJV	TUL	Sequoia and Kings Canyon Natl Park	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	TUL	Sequoia Natl Park-Lower Kaweah	D	H p	H p	H p	H	H	H	H	H	H	H p	H p	
SJV	TUL	Visalia-N Church Street	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p

Get Additional Information on Sites

Monthly Inventory

- Breathe Well
- Latest Ozone
- Latest Year's Ozone
- Air Quality Data
- Meteorological Data
- Google Maps
- Greenhouse Gas (GHG) Data

San Joaquin Valley Air Basin
Monthly Data Availability for Ozone Data
2016

Bas	Cnty	Site Name	Daily	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
SJV	FRE	Clovis-N Villa Avenue	D	H	H	H	H	H	H	H p	H p	H p	H p	H p	H p
SJV	FRE	Fresno-Drummond Street	D	H p	H p	H p	H p	H p	H p	H p	H p	H p	H p	H p	H p
SJV	FRE	Fresno-Garland	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p
SJV	FRE	Fresno-Sierra Skypark #2	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	FRE	Parlier	D	H	H	H	H	H	H p	H p	H p	H p	H p	H p	H p
SJV	FRE	Tranquility-32650 West Adams Avenue	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	KER	Arvin-Di Giorgio	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Bakersfield-5558 California Avenue	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Bakersfield-Municipal Airport	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	KER	Edison	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Maricopa-Stanislaus Street	D	H	H	H	H	H	H	H	H	H p	H p	H p	H p
SJV	KER	Oildale-3311 Manor Street	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KER	Shafter-Walker Street	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	KIN	Hanford-S Irwin Street	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	MAD	Madera-28261 Avenue 14	D	H	H	H	H	H	H	H p	H p	H p	H p	H p	H p
SJV	MAD	Madera-Pump Yard	D	H	H	H	H	H	H	H	H p	H p	H p	H p	H p
SJV	MER	Merced-S Coffee Avenue	D	H p	H p	H p	H p	H p	H	H	H	H	H p	H p	H p
SJV	SJ	Stockton-Hazelton Street	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p
SJV	SJ	Tracy-Airport	D	H	H	H	H	H	H p	H p	H p	H p	H p	H p	H p
SJV	STA	Modesto-14th Street	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p
SJV	STA	Turlock-S Minaret Street	D	H	H	H	H	H	H	H	H	H p	H p	H p	H p
SJV	TUL	Porterville-1839 Newcomb Street	D	H	H	H	H	H	H p	H	H	H p	H p	H p	H p
SJV	TUL	Sequoia and Kings Canyon Natl Park	D	H	H	H	H	H	H	H	H	H	H p	H p	H p
SJV	TUL	Sequoia Natl Park-Lower Kaweah	D	H p	H p	H p	H	H	H	H	H	H	H p	H p	
SJV	TUL	Visalia-N Church Street	D	H	H	H	H	H p	H p	H p	H p	H p	H p	H p	H p

Get Additional Information on Sites

Using AQMIS

- Data Submission
  - Monthly Inventory for finding data gaps
- Data Validation
  - Comparison with nearby sites
  - Graphing
  - Outliers
- Special Events

AQMIS

- Questions?

AQS and ADAM

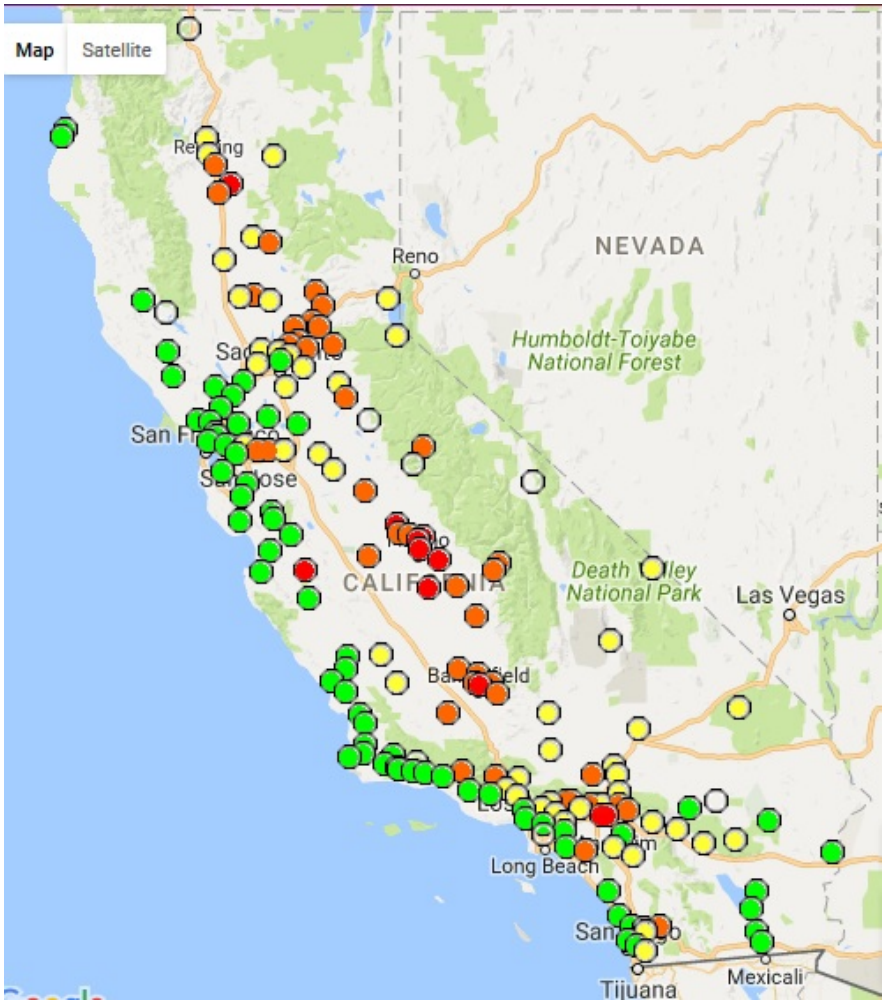
- USEPA's Air Quality System (AQS)
  - Data from thousands of nationwide monitors
  - Official air quality and meteorological data
  - Data available for download by registered users
- ADAM
  - Flexible data selection
  - Official data for current and past standards
  - Graphing capability
  - Accessibility – open to public

ADAM

- Official data for current and past standards
  - Supports regulatory National and State statistics
  - Determined exactly as prescribed for national and state rules
- Graphing and flexible data selection
- iADAM -- ADAM's Web interface

ADAM Data Sources

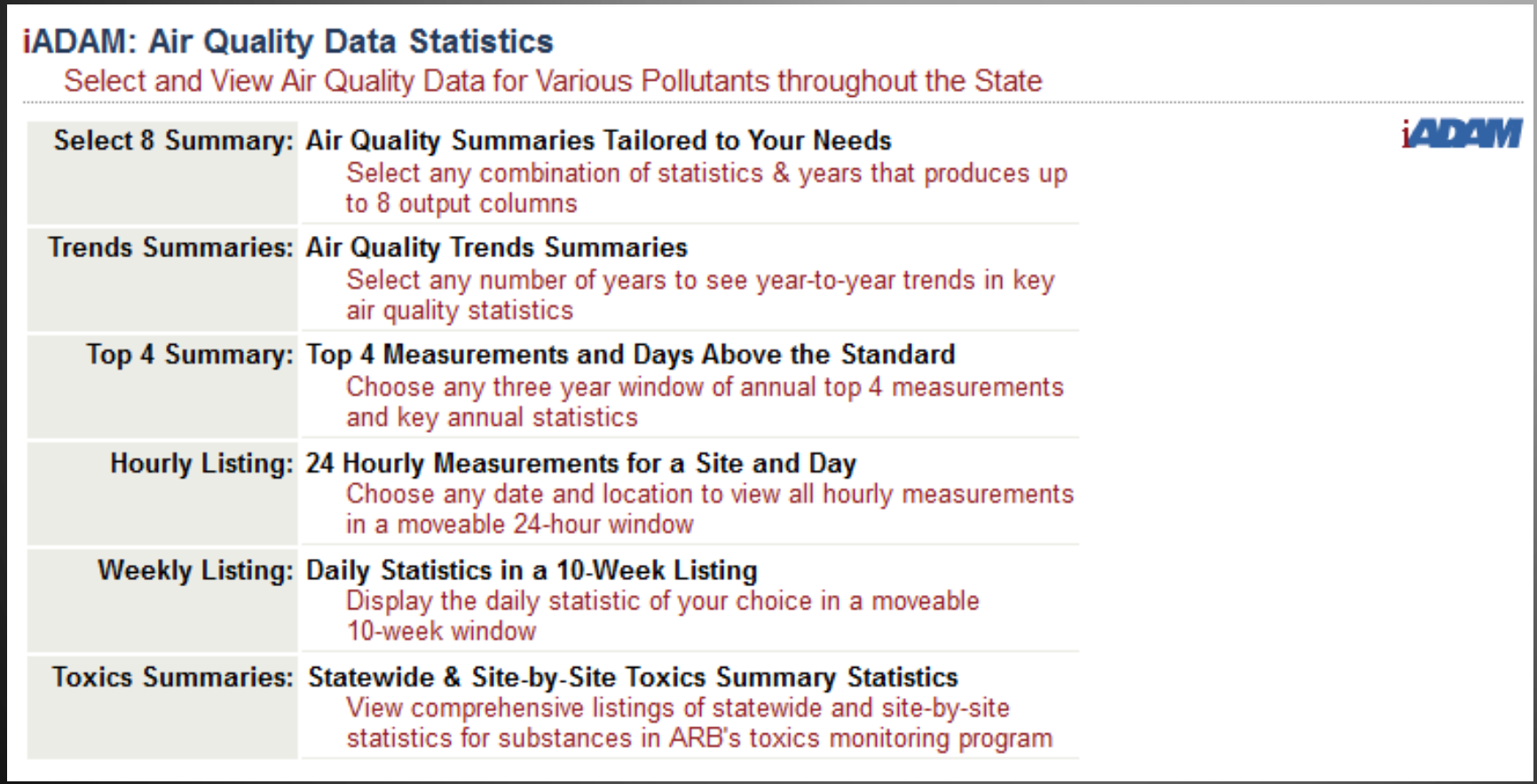
- All California sites that submit to AQS
- Near border sites in Mexico and Nevada



Future ADAM Developments

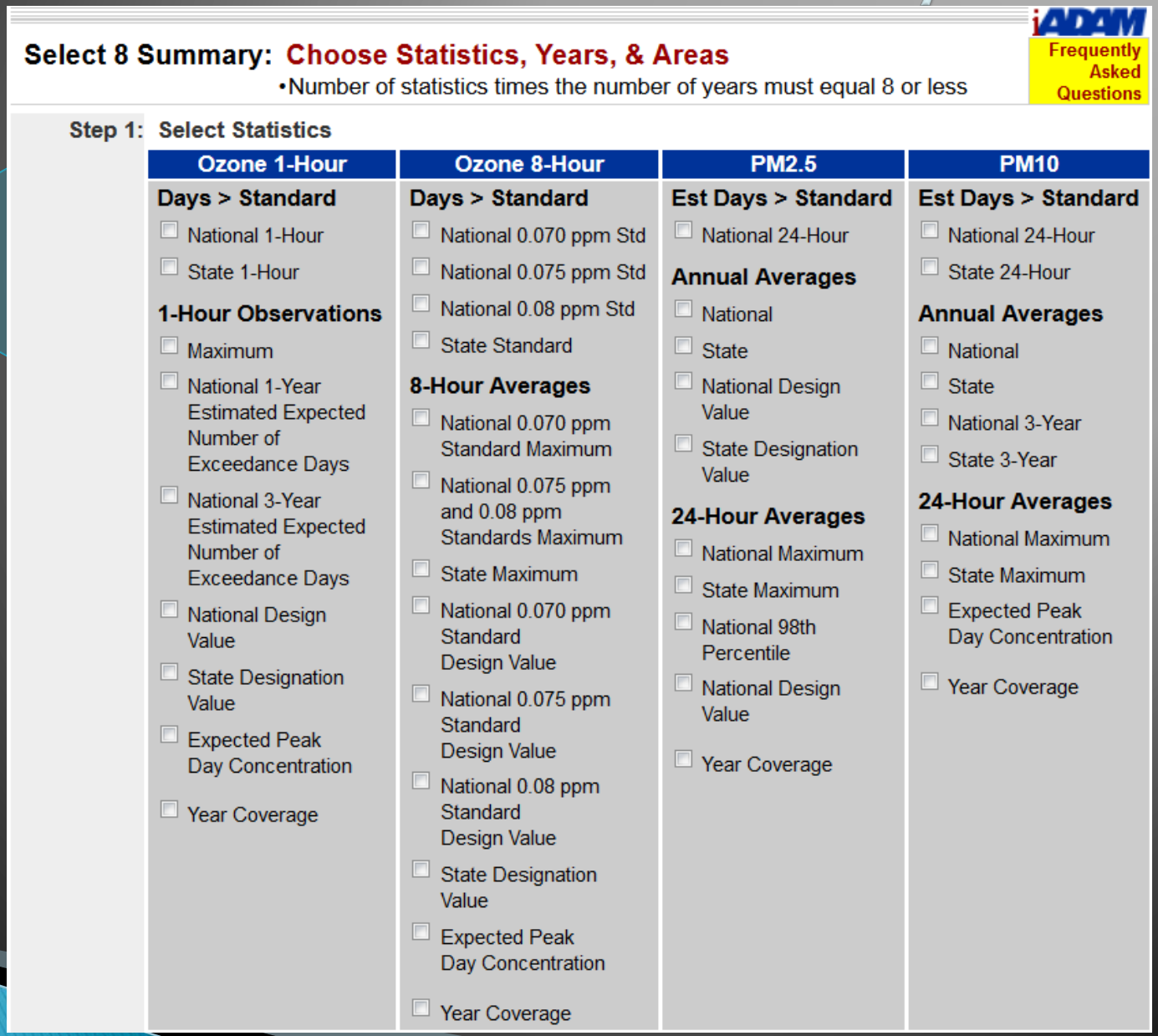
- Restoration of Support:
  - Carbon monoxide standards
  - Sulfur dioxide standards
- Expand PM2.5 Support:
  - 12.0 µg/m³ annual standard
  - 65 µg/m³ 24-hour standard
  - All latest versions of Appendix N
- PM2.5 speciation
- Support lead standards
- Greenhouse gas data
- Meteorological data
- iADAM:
  - Download capability

iADAM Main Page



iADAM: Select 8 Summary

- **Select 8 Summary:**
- **Trends Summaries:**
- **Top 4 Summary:**
- **Hourly Listing:**
- **Weekly Listing:**
- **Toxics Summaries:**



Select 8 Summary: Choose Statistics, Years, & Areas

•Number of statistics times the number of years must equal 8 or less

iADAM Frequently Asked Questions

Step 1: Select Statistics

Ozone 1-Hour	Ozone 8-Hour	PM2.5	PM10
Days > Standard	**Days > Standard**	**Est Days > Standard**	**Est Days > Standard**
☐ National 1-Hour	☐ National 0.070 ppm Std	☐ National 24-Hour	☐ National 24-Hour
☐ State 1-Hour	☐ National 0.075 ppm Std	**Annual Averages**	☐ State 24-Hour
1-Hour Observations	☐ National 0.08 ppm Std	☐ National	**Annual Averages**
☐ Maximum	☐ State Standard	☐ State	☐ National
☐ National 1-Year Estimated Expected Number of Exceedance Days	**8-Hour Averages**	☐ National Design Value	☐ State
☐ National 3-Year Estimated Expected Number of Exceedance Days	☐ National 0.070 ppm Standard Maximum	☐ State Designation Value	☐ National 3-Year
☐ National Design Value	☐ National 0.075 ppm and 0.08 ppm Standards Maximum	**24-Hour Averages**	☐ State 3-Year
☐ State Designation Value	☐ State Maximum	☐ National Maximum	**24-Hour Averages**
☐ Expected Peak Day Concentration	☐ National 0.070 ppm Standard Design Value	☐ State Maximum	☐ National Maximum
☐ Year Coverage	☐ National 0.075 ppm Standard Design Value	☐ National 98th Percentile	☐ State Maximum
	☐ National 0.08 ppm Standard Design Value	☐ National Design Value	☐ Expected Peak Day Concentration
	☐ State Designation Value	☐ Year Coverage	☐ Year Coverage
	☐ Expected Peak Day Concentration		
	☐ Year Coverage		

iADAM: Select 8 Summary

- **Select 8 Summary:**
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- **Weekly Listing:**
- **Toxics Summaries:**

Step 2: Select Years

2015	2010	2005	2000	1995	1990	1985	1980	1975
2014	2009	2004	1999	1994	1989	1984	1979	1974
2013	2008	2003	1998	1993	1988	1983	1978	1973
2012	2007	2002	1997	1992	1987	1982	1977	
2011	2006	2001	1996	1991	1986	1981	1976	

Step 3: Select Areas

Map of California's Regions and Counties

Regions

- Greater Los Angeles
- Sacramento Valley
- San Diego
- San Francisco Bay
- San Joaquin Valley
- Santa Barbara-Ventura
- Other Central State
- Other Northern State
- Other Southern State
- Mexico

California's Counties

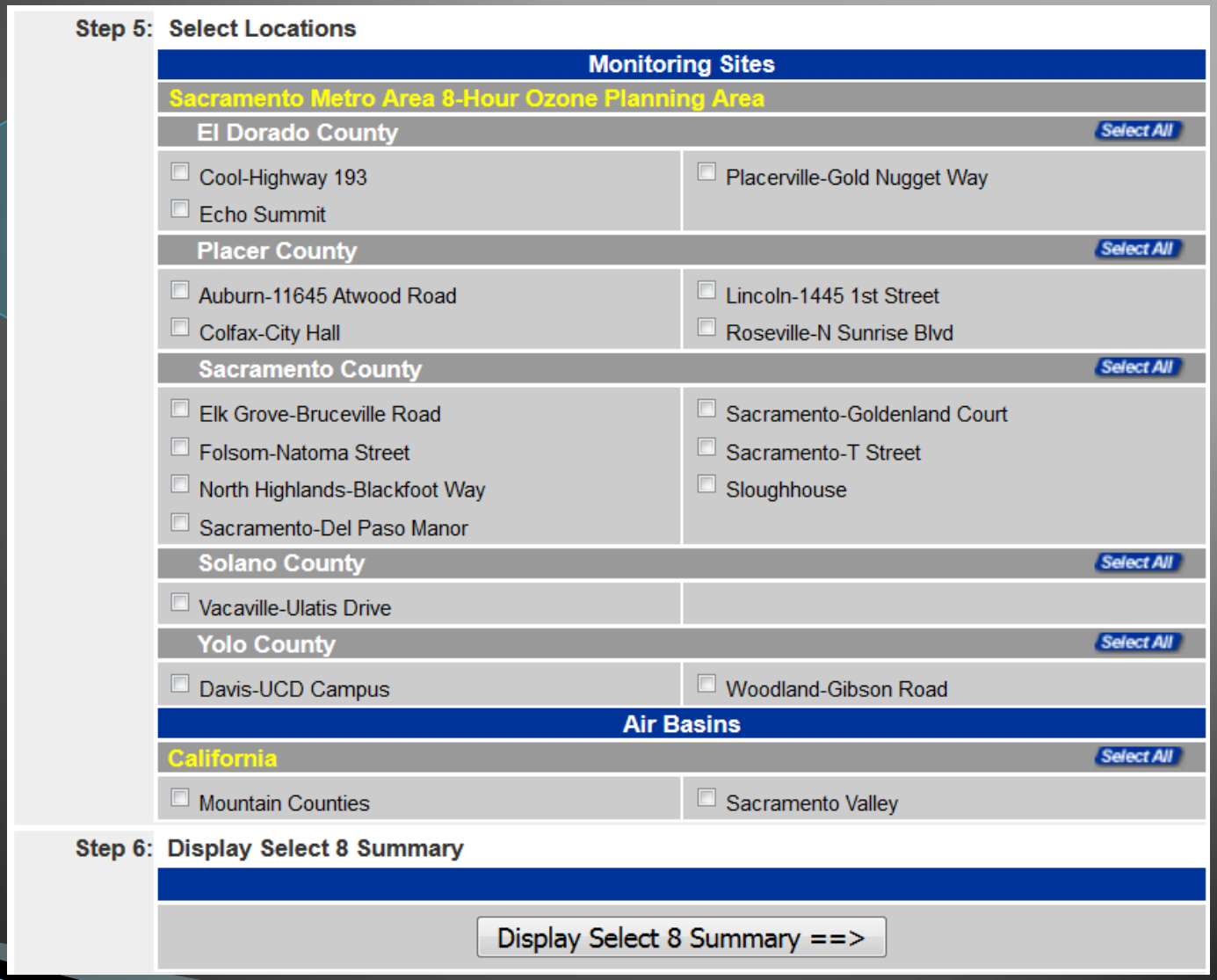
Alameda	Imperial	Mono	San Francisco	Solano
Alpine	Inyo	Monterey		Sonoma
Amador	Kern	Napa	San Joaquin	Stanislaus
Butte	Kings	Nevada	San Luis Obispo	Sutter
Calaveras	Lake	Orange		Tehama
Colusa	Lassen	Placer	San Mateo	Trinity
Contra Costa	Los Angeles	Plumas	Santa Barbara	Tulare
	Madera	Riverside		Tuolumne
Del Norte	Marin	Sacramento	Santa Clara	Ventura
El Dorado	Mariposa	San Benito	Santa Cruz	Yolo
Fresno	Mendocino	San Bernardino	Shasta	Yuba
Glenn	Merced		Sierra	
Humboldt	Modoc	San Diego	Siskiyou	

Special Ozone 8-Hour Planning Areas

Antelope Valley & W Mojave Desert	Eastern Kern County	Southern Mountain Counties
Central Mountain Counties	Sacramento Metropolitan Area	Sutter Buttes
Coachella Valley	South Coast	Western Nevada County

iADAM: Select 8 Summary

- **Select 8 Summary:**
- **Trends Summaries:**
- **Top 4 Summary:**
- **Hourly Listing:**
- **Weekly Listing:**
- **Toxics Summaries:**



Step 5: Select Locations

Monitoring Sites

Sacramento Metro Area 8-Hour Ozone Planning Area

El Dorado County — Select All

- ☐ Cool-Highway 193
- ☐ Echo Summit
- ☐ Placerville-Gold Nugget Way

Placer County — Select All

- ☐ Auburn-11645 Atwood Road
- ☐ Colfax-City Hall
- ☐ Lincoln-1445 1st Street
- ☐ Roseville-N Sunrise Blvd

Sacramento County — Select All

- ☐ Elk Grove-Bruceville Road
- ☐ Folsom-Natoma Street
- ☐ North Highlands-Blackfoot Way
- ☐ Sacramento-Del Paso Manor
- ☐ Sacramento-Goldenland Court
- ☐ Sacramento-T Street
- ☐ Sloughhouse

Solano County — Select All

- ☐ Vacaville-Ulatis Drive

Yolo County — Select All

- ☐ Davis-UCD Campus
- ☐ Woodland-Gibson Road

Air Basins

California — Select All

- ☐ Mountain Counties
- ☐ Sacramento Valley

Step 6: Display Select 8 Summary

Display Select 8 Summary ==>

iADAM: Select 8 Summary

- **Select 8 Summary:**
- **Trends Summaries:**
- **Top 4 Summary:**
- **Hourly Listing:**
- **Weekly Listing:**
- **Toxics Summaries:**

iADAM

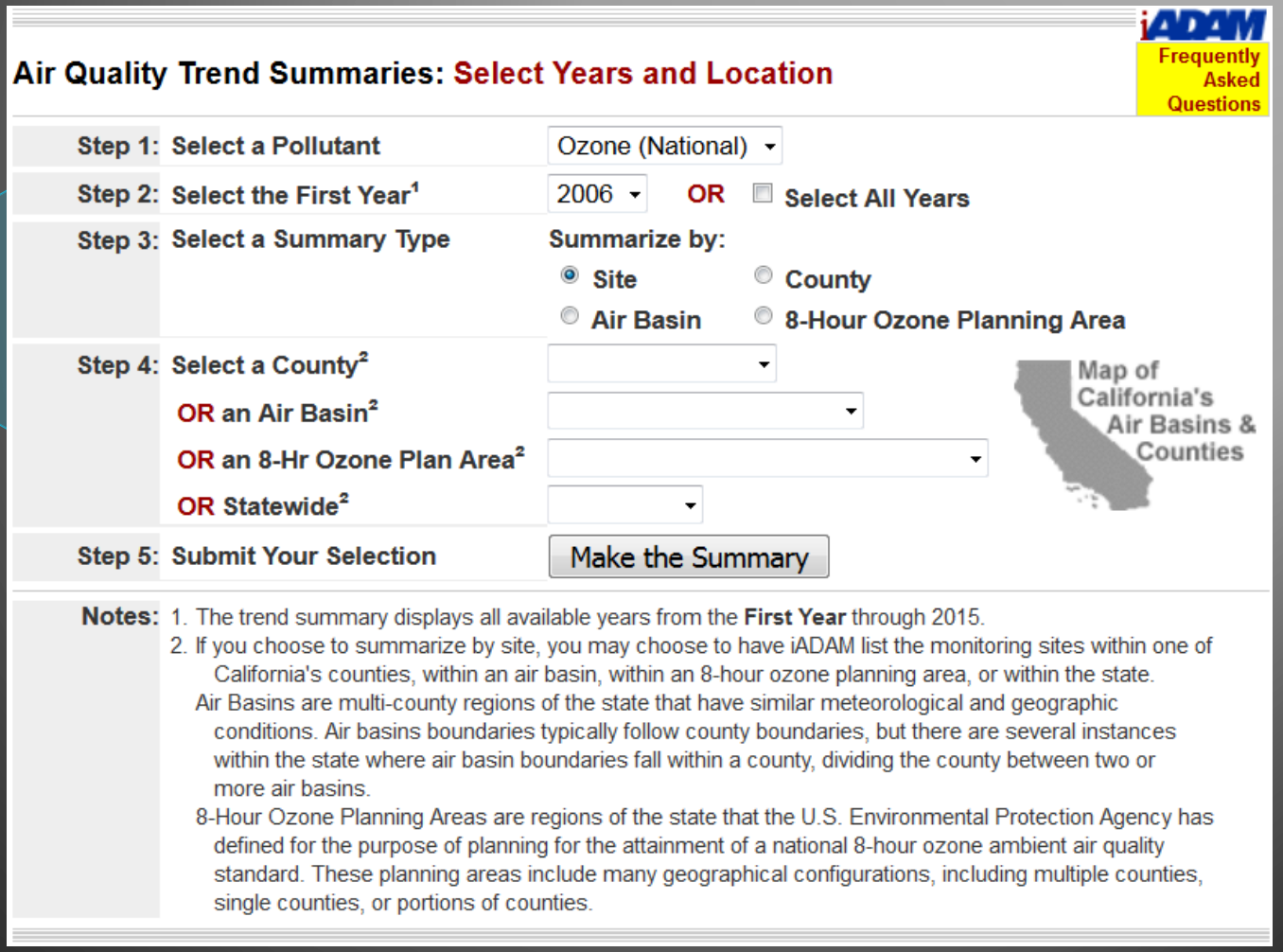
Select 8 Summary

FAQs

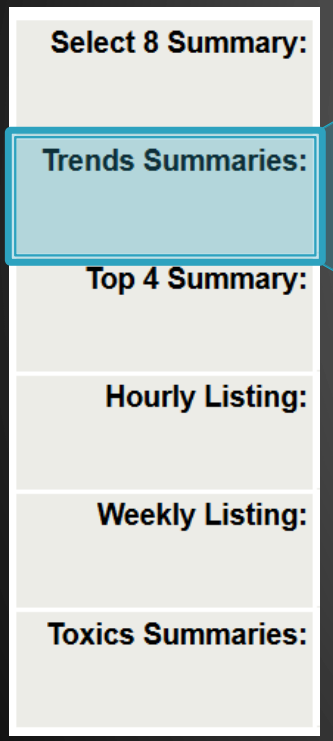
Monitoring Sites	Ozone					
	#Days > Natl 070 8-Hour Standard		#Days > Natl 075 8-Hour Standard		#Days > State 8-Hour Standard	
	2014	2015	2014	2015	2014	2015
Sacramento Metro Area 8-Hour Ozone Planning Area						
Sacramento County						
Elk Grove-Bruceville Road	1	2	0	1	2	2
Folsom-Natoma Street	34	11	14	5	35	11
North Highlands-Blackfoot Way	12	8	3	3	13	8
Sacramento-Del Paso Manor	16	8	1	5	18	8
Sacramento-Goldenland Court	3	4	1	1	4	6
Sacramento-T Street	3	4	0	1	4	4
Sloughhouse	10	14	5	6	10	14

iADAM: Trends Start Page

- Select 8 Summary:
- Trends Summaries:
- Top 4 Summary:
- Hourly Listing:
- Weekly Listing:
- Toxics Summaries:



iADAM: Trends Summary



iADAM

Ozone Trends Summary: Azusa

National Standards

FAQs

Year	Days > Standard 1-Hr 0.12	Days > Standard 8-Hr 0.070	Days > Standard 8-Hr 0.075	1-Hour Observations Max.	EENED[1] 1-Yr	EENED[1] 3-Yr	1-Hour Observations D.V.[2]	8-Hour Averages 0.070 Std Max.	8-Hour Averages 0.070 Std D.V.[2]	8-Hour Averages 0.075 Std Max.	8-Hour Averages 0.075 Std D.V.[2]	Year Coverage
2015	*0*	27	17	*0.122*	*0.0*	*0.0*	*0.118*	0.096	0.083	0.096	0.083	85
2014	*0*	18	11	*0.123*	*0.0*	*0.3*	*0.116*	0.092	0.080	0.092	0.080	95
2013	*0*	15	6	*0.115*	*0.0*	*0.3*	*0.112*	0.085	0.080	0.085	0.080	95
2012	*1*	18	10	*0.134*	*1.0*	*0.3*	*0.111*	0.095	0.078	0.095	0.078	99
2011	*0*	18	12	*0.111*	*0.0*	*1.3*	*0.127*	0.092	0.082	0.092	0.082	95
2010	*0*	8	3	*0.104*	*0.0*	*3.7*	*0.134*	0.081	0.089	0.081	0.089	96
2009	*4*	29	17	*0.150*	*4.0*	*4.7*	*0.135*	0.107	0.096	0.107	0.096	100
2008	*7*	37	28	*0.135*	*7.1*	*5.7*	*0.141*	0.111	0.096	0.111	0.096	98
2007	*3*	27	20	*0.158*	*3.0*	*4.7*	*0.145*	0.113	0.091	0.113	0.091	99
2006	*7*	24	17	*0.165*	*7.0*	*4.4*	*0.141*	0.120	0.090	0.120	0.090	99
Graph	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Info: Click on a column header for more information about the statistic in that column.

Area: Los Angeles County; South Coast Air Basin;
South Coast Air Basin 8-Hour Ozone Planning Area

District: South Coast AQMD

Years: Annual Ozone statistics are available for this site from 1978 through 2015.

Notes: All concentrations expressed in parts per million.
The national 1-hour ozone standard was revoked in June 2005. Statistics related to the revoked standard are shown in *italics* or *italics*.
National exceedances shown in **orange**.
An exceedance is not necessarily a violation.
Daily maximum 8-hour averages associated with the National 0.070 ppm standard exclude those 8-hour averages that have first hours between midnight and 6:00 am, Pacific Standard Time.
Daily maximum 8-hour averages associated with the National 0.070 ppm standard include only those 8-hour averages from days that have sufficient data for the day to be considered valid.
Daily maximum 8-hour averages associated with the National 0.075 ppm standard may come from days that don't have sufficient data for the day to be considered valid, provided the daily maximum 8-hour average itself includes sufficient data to be considered valid.
[1] EENED = Estimated Expected Number of Exceedance Days
[2] D.V. = National Design Value
* There was insufficient (or no) data available to determine the value.

Go to: iADAM Home | Trends Summaries Start | State Ozone/PM2.5/PM10 Trends for this Site

iADAM: Trends Summary

Ozone Trends Summary: Azusa

National Standards

FAQs

Year	Days > Standard			1-Hour Observations				8-Hour Averages				Year Coverage
	1-Hr	8-Hr			EENED[1]			0.070 Std		0.075 Std		
	0.12	0.070	0.075	Max.	1-Yr	3-Yr	D.V.[2]	Max.	D.V.[2]	Max.	D.V.[2]	
2015	0	27	17	0.122	0.0	0.0	0.118	0.096	0.083	0.096	0.083	85
2014	0	18	11	0.123	0.0	0.3	0.116	0.092	0.080	0.092	0.080	95
2013	0	15	6	0.115	0.0	0.3	0.112	0.085	0.080	0.085	0.080	95
2012	1	18	10	0.134	1.0	0.3	0.111	0.095	0.078	0.095	0.078	99
2011	0	18	12	0.111	0.0	1.3	0.127	0.092	0.082	0.092	0.082	95
2010	0	8	3	0.104	0.0	3.7	0.134	0.081	0.089	0.081	0.089	96
2009	4	29	17	0.150	4.0	4.7	0.135	0.107	0.096	0.107	0.096	100
2008	7	37	28	0.135	7.1	5.7	0.141	0.111	0.096	0.111	0.096	98
2007	3	27	20	0.158	3.0	4.7	0.145	0.113	0.091	0.113	0.091	99
2006	7	24	17	0.165	7.0	4.4	0.141	0.120	0.090	0.120	0.090	99
Graph	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

iADAM: Trends Summary

- Select 8 Summary:
- Trends Summaries:
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- Weekly Listing:
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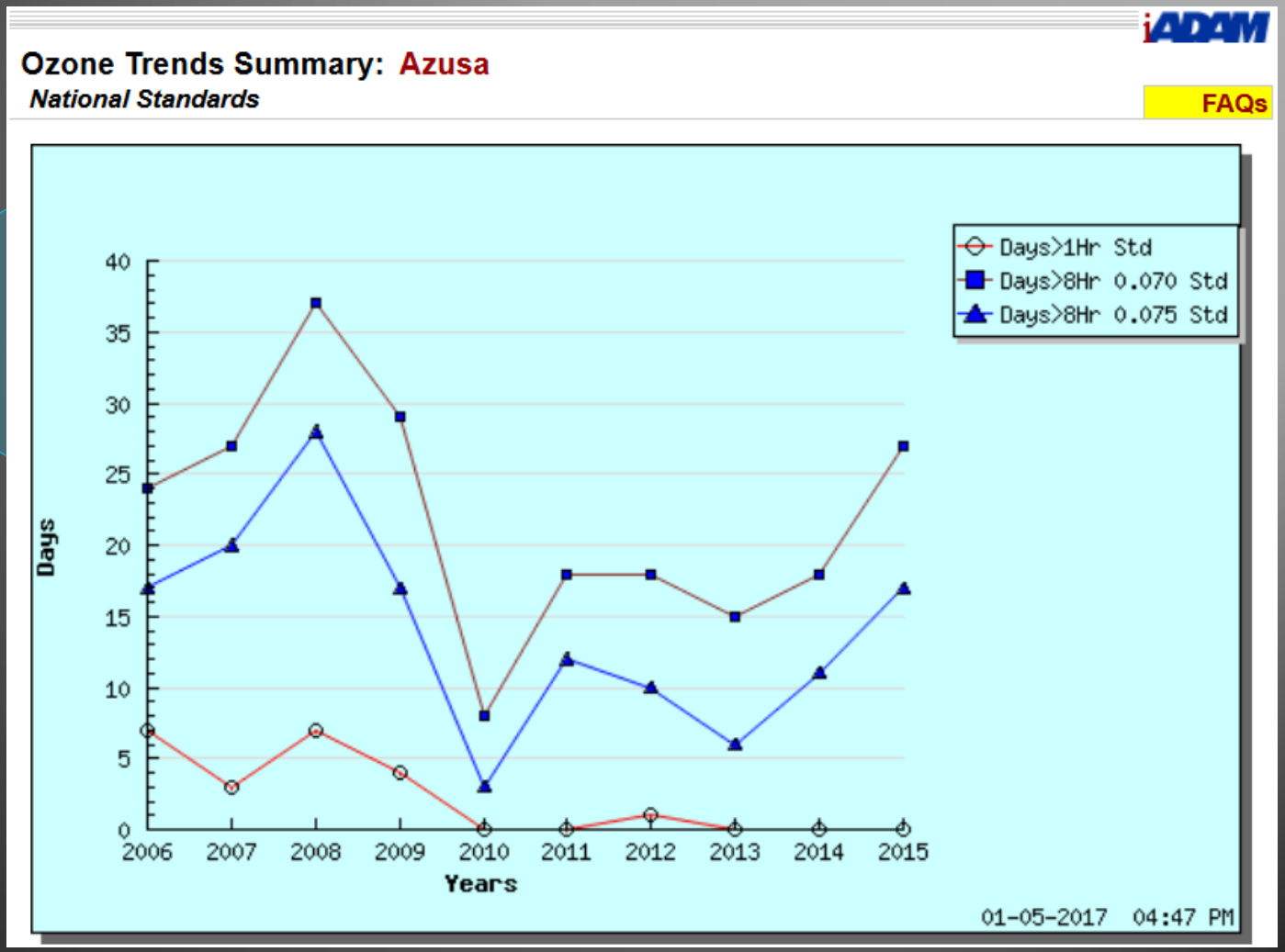

ARB Toxics Network

- Select 8 Summary:
- Trends Summaries:
- Top 4 Summary:
- Hourly Listing:
- Weekly Listing:
- Toxics Summaries:

Annual Toxics Summaries
by Monitoring Sites

iADAM FAQs

Volatile Organic Compounds | Polycyclic Aromatic Hydrocarbons | Metals

Volatile Organic Compounds

Acetaldehyde	ortho-Dichlorobenzene	Methyl tertiary-Butyl Ether
Acetone	para-Dichlorobenzene	Methylene Chloride
Acetonitrile	cis-1,3-Dichloropropene	Perchloroethylene
Acrolein	trans-1,3-Dichloropropene	Styrene
Benzene	Ethyl Benzene	Toluene
1,3-Butadiene	Ethylene Dibromide	Trichloroethylene
Carbon Disulfide	Ethylene Dichloride	meta-Xylene
Carbon Tetrachloride	Formaldehyde	meta/para-Xylene
Chlorobenzene	Methyl Bromide	ortho-Xylene
Chloroform	Methyl Chloroform	para-Xylene
meta-Dichlorobenzene	Methyl Ethyl Ketone	

Polycyclic Aromatic Hydrocarbons

Benzo(a)pyrene-10	Benzo(g,h,i)perylene-10	Dibenz(a,h)anthracene-10
Benzo(b)fluoranthene-10	Benzo(k)fluoranthene-10	Indeno(1,2,3-cd)pyrene-10

Metals

Aluminum	Hexavalent Chromium	Silicon
Antimony	Iron	Strontium
Arsenic	Lead	Sulfur
Barium	Manganese	Tin
Beryllium	Mercury	Titanium
Bromine	Molybdenum	Uranium
Cadmium	Nickel	Vanadium
Calcium	Phosphorus	Yttrium
Chlorine	Potassium	Zinc
Chromium	Platinum	Zirconium
Cobalt	Rubidium	
Copper	Selenium	

Benzene

- Select 8 Summary:
- Trends Summaries:
- Top 4 Summary:
- Hourly Listing:
- Weekly Listing:
- Toxics Summaries:

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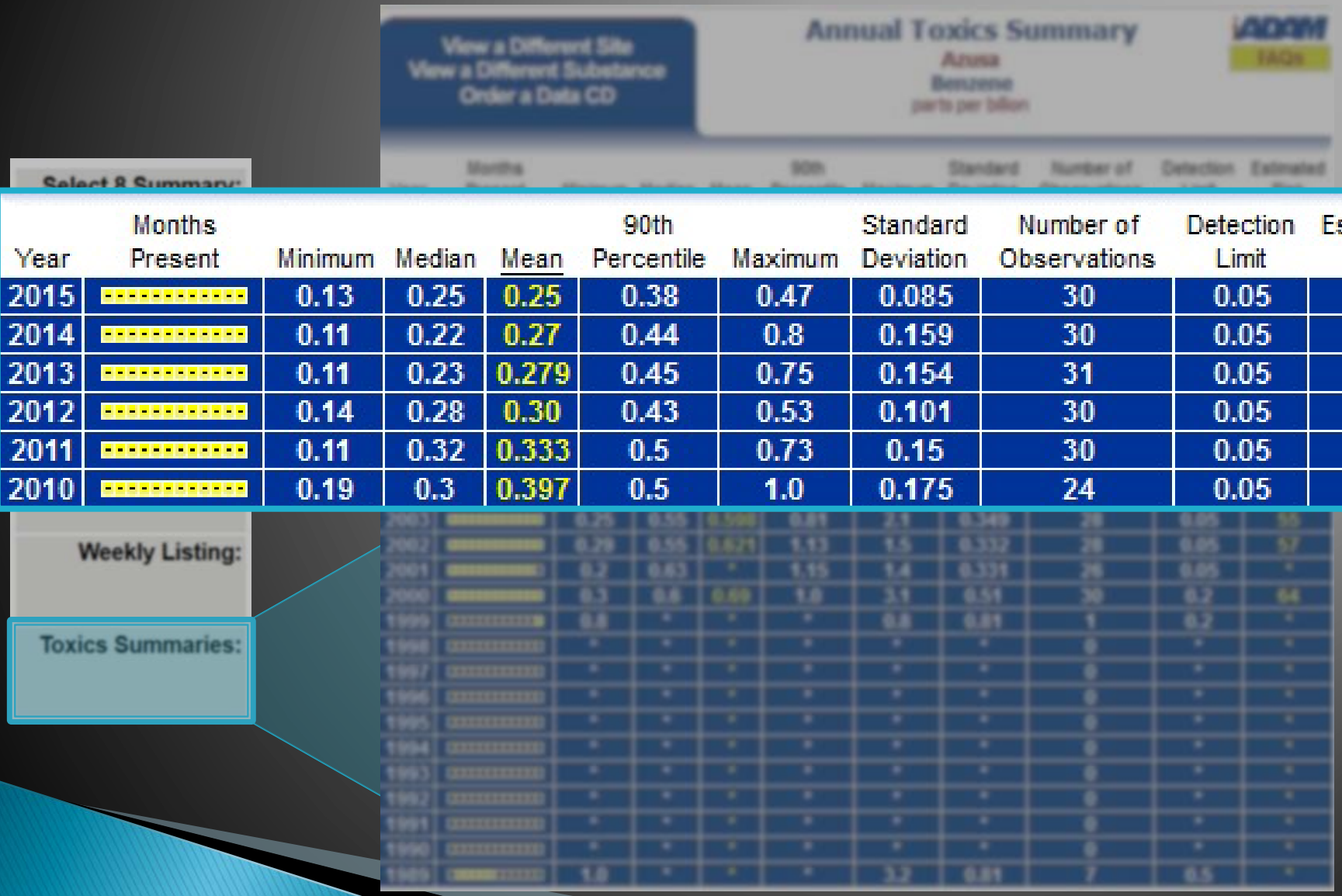
Annual Toxics Summary

Azusa
Benzene
parts per billion

iADAM
FAQs

Year	Months Present	Minimum	Median	Mean	90th Percentile	Maximum	Standard Deviation	Number of Observations	Detection Limit	Estimated Risk
2015	------------	0.13	0.25	0.25	0.38	0.47	0.085	30	0.05	23
2014	------------	0.11	0.22	0.27	0.44	0.8	0.159	30	0.05	25
2013	------------	0.11	0.23	0.279	0.45	0.75	0.154	31	0.05	26
2012	------------	0.14	0.28	0.30	0.43	0.53	0.101	30	0.05	28
2011	------------	0.11	0.32	0.333	0.5	0.73	0.15	30	0.05	31
2010	------------	0.19	0.3	0.397	0.5	1.0	0.175	24	0.05	37
2009	------------	0.1	0.29	0.328	0.6	1.1	0.211	31	0.05	30
2008	----------▪--	0.18	0.3	*	0.55	0.89	0.163	28	0.05	*
2007	------------	0.15	0.36	0.42	0.78	1.2	0.248	27	0.05	39
2006	------------	0.16	0.37	0.376	0.52	0.83	0.152	29	0.05	35
2005	------------	0.15	0.47	0.512	0.76	1.2	0.265	29	0.05	47
2004	------------	0.2	0.36	0.432	0.76	1.0	0.211	29	0.05	40
2003	------------	0.25	0.55	0.598	0.81	2.1	0.349	28	0.05	55
2002	------------	0.29	0.55	0.621	1.13	1.5	0.332	28	0.05	57
2001	------------▪	0.2	0.63	*	1.15	1.4	0.331	26	0.05	*
2000	------------	0.3	0.6	0.69	1.0	3.1	0.51	30	0.2	64
1999	▪▪▪▪▪▪▪▪▪▪▪▪	0.8	*	*	*	0.8	0.81	1	0.2	*
1998	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1997	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1996	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1995	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1994	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1993	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1992	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1991	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1990	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1989	▪-----▪▪▪▪▪▪	1.0	*	*	*	3.2	0.81	7	0.5	*

Benzene



Year	Months Present	Minimum	Median	Mean	90th Percentile	Maximum	Standard Deviation	Number of Observations	Detection Limit	Estimated Risk
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2012	----------	0.14	0.28	0.30	0.43	0.53	0.101	30	0.05	28
2011	----------	0.11	0.32	0.333	0.5	0.73	0.15	30	0.05	31
2010	----------	0.19	0.3	0.397	0.5	1.0	0.175	24	0.05	37

Benzene

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- **Toxics Summaries:**

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parts per billion

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2010	----------	0.19	0.3	0.397	0.5	1.0	0.175	24
2009	----------	0.1	0.29	0.328	0.6	1.1	0.211	31
2008	---------▪--	0.18	0.3	*	0.55	0.89	0.163	28
2007	----------	0.15	0.36	0.42	0.78	1.2	0.248	27
2006	----------	0.16	0.37	0.376	0.52	0.83	0.152	29
2005	----------	0.15	0.47	0.512	0.76	1.2	0.265	29
2004	----------	0.2	0.36	0.432	0.76	1.0	0.211	29
2003	----------	0.25	0.55	0.598	0.81	2.1	0.349	28
2002	----------	0.29	0.55	0.621	1.13	1.5	0.332	28
2001	----------▪	0.2	0.63	*	1.15	1.4	0.331	26
2000	----------	0.3	0.6	0.69	1.0	3.1	0.51	30
1999	▪▪▪▪▪▪▪▪▪▪▪▪	0.8	*	*	*	0.8	0.81	1
1998	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1997	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1996	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1995	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1994	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1993	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1992	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1991	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1990	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0
1989	▪-----▪▪▪▪▪▪	1.0	*	*	*	3.2	0.81	7

Number of Observations
30
30
31
30
30
24
31
28
27
29
29
29
28
28
26
30
1
0
0
0
0
0
0
0
0
0
0
7

Benzene: Estimated Risk

Year	Months Present	Minimum	Median	Mean	90th Percentile	Maximum	Standard Deviation	Number of Observations	Detection Limit	Estimated Risk
2015	----------	0.13	0.25	0.25	0.38	0.47	0.085	30	0.05	23
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2013	----------	0.11	0.23	0.279	0.45	0.75	0.154	31	0.05	26
2012	----------	0.14	0.28	0.30	0.43	0.53	0.101	30	0.05	28
2011	----------	0.11	0.32	0.333	0.5	0.73	0.15	30	0.05	31
2010	----------	0.19	0.3	0.397	0.5	1.0	0.175	24	0.05	37

Estimation of Cancer Risk

- Mean = average of the 12 monthly site averages
  - Requires at least 1 sample per month
- Estimated Cancer Risk Factor
  - Unit Risk Factor (URF) – California Office of Environmental Health Hazard Assessment

Benzene

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2012	------------	0.14	0.28	0.30	0.43	0.53	0.101	30	0.05	28
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1998	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1997	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1996	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1995	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1994	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1993	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1992	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1991	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1990	▪▪▪▪▪▪▪▪▪▪▪▪	*	*	*	*	*	*	0	*	*
1989	▪-----▪▪▪▪▪▪	1.0	*	*	*	3.2	0.81	7	0.5	*

Summary

AQMIS and ADAM are flexible tools:

AQMIS

- Preliminary Air Quality and Meteorological Data
- Real-time Tool
  - Determine data gaps
  - Flag data

ADAM

- Easily accessible through iADAM
- Select and graph variety of data combinations
- Official Air Quality Data
- Supports National and State Standards
  - Currently: all ozone standards,
    35 µg/m³ and 15.0 µg/m³ PM2.5 (2006) standards,
    all PM10 standards, all NO_2 standards, and H_2S standard
  - Future: all PM2.5 standards, all CO standards, all SO_2 standards,
    all Lead standards

Links & Contacts

Links:

- AQMIS

  https://www.arb.ca.gov/airqualitytoday

  - AQMIS Mobile Website:

  https://mobile.arb.ca.gov/breathewell

- iADAM:

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

Contacts:

- AQMIS: aqmis@arb.ca.gov
- ADAM: adam@arb.ca.gov