

Appendix A

Ambient Air Quality Data and Analysis

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Appendix A: Ambient Air Quality Data and Analysis

A.1 INTRODUCTION

This Appendix provides 2004-2006 PM_{2.5} data analysis, a description of the PM_{2.5} attainment calculation process, 1999-2006 trends analysis, and ambient PM_{2.5} air quality data. This information supplements the overview of ambient PM_{2.5} data included in Chapter 1.

A.2 OVERVIEW OF RESULTS: 2004-2006 ANNUAL AND 24-HOUR PM_{2.5} AVERAGES

Air quality meets the 24-hour PM_{2.5} standard when the 3-year average of the annual 98th percentile PM_{2.5} value is less than or equal to 65 µg/m³ at each monitoring site. “Daily value” for PM refers to the 24-hour average concentration of PM calculated or measured from midnight to midnight (local standard time) for PM_{2.5}. Average and mean refer to an arithmetic mean. All the San Joaquin Valley (SJV) air monitoring sites meet the 24 hour “1997” PM_{2.5} NAAQS (Table A-1).

Air quality meets the annual PM_{2.5} standard whenever the 3-year average of the annual mean PM_{2.5} concentrations is less than or equal to 15.0 µg/m³. Most of the SJVAPCD sites PM_{2.5} monitors are above the annual mean PM_{2.5} NAAQS (Table A-2).

See Section A.3 of this appendix for information on how these calculations are completed, and see Section A.4 for data analysis from 1999-2006.

Table A-1 SJV PM_{2.5} 98th Percentile Value, 2004-2006, (µg/m³)

SJV SITE	2004	2005	2006	AVG. 04-06
Stockton	36.0	44.0	42.0	41
Modesto	45.0	55.0	52.0	51
Merced	43.0	48.3	43.8	45
Fresno-1st	52.0	71.0	51.0	58
Fresno-Winery	49.4	71.2	55.0	59
Clovis	42.4	77.0	51.3	57
Corcoran	49.4	74.5	50.1	58
Visalia	54.0	65.0	50.0	56
Bakersfield-Golden	53.8	74.9	64.4	64
Bakersfield-California	63.1	63.6	60.5	62
Bakersfield-Planz	78.6	66.4	50.6	65

 Involves data substitution

 98th percentile value affected by flagged data

Table A-2 SJV PM_{2.5} Annual Mean Values, 2004-2006
($\mu\text{g}/\text{m}^3$)

SJV PM_{2.5} Annual Mean Value				
SJV SITE	2004	2005	2006	AVG. 04-06
Stockton	13.2	12.5	13.1	12.9
Modesto	13.6	13.9	14.8	14.1
Merced	15.3	14.1	14.8	14.7
Fresno-1st	16.4	16.9	16.8	16.7
Fresno-Winery	17.0	16.9	17.6	17.2
Clovis	15.8	16.0	16.8	16.2
Corcoran	17.3	17.6	16.7	17.2
Visalia	17.0	18.8	18.8	18.2
Bakersfield-Golden	18.1	18.9	18.6	18.5
Bakersfield-California	19.0	17.9	18.7	18.5
Bakersfield-Planz	17.4	19.9	19.3	18.9

Annual average considered valid (Each Q>11 Samples and Annual Avg >Standard) but does not meet the 75% completeness requirement.

A.3 PM_{2.5} ANNUAL AND 24-HOUR ATTAINMENT STATUS CALCULATIONS

The San Joaquin Valley Unified Air Pollution Control District (District) calculated the Valley's attainment status according to the requirements of the U. S. Environmental Protection Agency's (EPA) April 1999 document, Guideline on Data Handling Conventions for the PM NAAQS, and Appendix N of 40 Code of Federal Regulations (CFR) part 50. PM_{2.5} values are calculated under both the annual and 24-hour NAAQS for each PM_{2.5} air quality-monitoring site that uses a federal reference method (FRM) monitor. There are 11 such air quality-monitoring sites¹ in the eight-county Valley: at least one monitor in each county except Madera and three monitoring sites in both Kern and Fresno Counties due to their large population concentrations (in Bakersfield and Fresno/Clovis respectively). On March 21, 2007, District staff downloaded the data from EPA's Air Quality System (AQS) website, the official repository for ambient air quality data (see Table 8 at the end of this Appendix). From this data, the District calculated the 2004 – 2006 daily and annual PM_{2.5} values accounting for the following:

- Rounding conventions
- Data completeness
- Varying sampling schedules
- Data validity flags

¹ For more details on the San Joaquin Valley air monitoring sites, refer to San Joaquin Valley Air Pollution Control District Ambient Air Monitoring Network Plan, May 29, 2007, <http://www.valleyair.org/notices/Docs/05-29-07/AMNPlanComment.pdf>.

A.3.1 Rounding Conventions

The starting point for annual and 24-hour PM_{2.5} averages is the ambient air quality data collected from the EPA-approved monitoring network operated in the San Joaquin Valley. The recorded concentrations are entered with one decimal place, and any other decimal places are truncated, not rounded (so 18.29 becomes 18.2, not 18.3). As the calculations are carried out (as described throughout this appendix), all of the available decimal places are retained until the final result is determined. Then, final annual PM_{2.5} averages are rounded to the nearest 0.1 µg/m³ (so 0.05 µg/m³ is rounded to 0.1 µg/m³). Final 24-hour PM_{2.5} averages are rounded to the nearest 1 µg/m³ (so 0.5 µg/m³ is rounded to 1 µg/m³).

A.3.2 Data Completeness

The data completeness test is performed for each site prior to calculating the 98th Percentile and Annual Mean PM_{2.5} values to ensure that each site has enough values to be compared to the NAAQS. A site meets the data completeness test when at least 75% of the scheduled sampling days for each quarter have valid data. The data completeness requirements for calculating the PM_{2.5} Annual Mean differ from the 24-Hour Daily PM_{2.5} Value.

For the annual PM_{2.5} values, on a site-by-site basis, the annual mean for that year and site is valid if each quarter has at least 75% of the scheduled sample days. For annual average calculations, quarters with at least 11 samples but less than 75 percent data completeness are included in the computation if the resulting annual average is greater than the level of the NAAQS, even though that site does not have a valid data for the year. No data is substituted for missing data. This method allows for nonattainment determinations, but cannot be used to prove attainment.

For the 98th percentile PM_{2.5} values, when less than 75% of the amount of valid data that should have been yielded from a quarter's scheduled sampling days is available, 40 CFR Part 50 Appendix N allows for estimation of missing values provided that the following requirements must be met:

- First, the site must have valid data for at least 50% of the scheduled number of samples for each quarter for all three years.
- The emissions and meteorology for the quarters to be substituted must be comparable to the emissions and meteorology for the quarters in question.

Once the above criteria are met, two approaches can be used to fill in for missing scheduled sampling days:

- Replace the missing data with collocated data from the same site and day, if such data is available.

- When there is no data from the same site and the same day, replace the missing data with the maximum concentration recorded at the site during the same quarter over the three-year period in question.

Table A-3 shows the data completeness of the PM_{2.5} values by quarter from 2004 through 2006. Since the data for some sites were incomplete, Table A-4 shows the substitutions for the 2004 through 2006 dataset.

Table A-3 Data Completeness by Quarter, 2004 – 2006, as Percentages

Site	2004				2005				2006			
	1	2	3	4	1	2	3	4	1	2	3	4
Bakersfield- Planz Road	87.1	100.0	87.1	53.3	80.0	83.9	90.0	90.3	96.7	60.0	93.5	80.6
Bakersfield-California Ave	76.9	83.5	69.6	80.4	75.6	91.2	81.5	80.4	81.1	89.0	90.2	88.0
Clovis-N Villa Ave	93.5	100.0	100.0	100.0	100.0	100.0	100.0	71.0	100.0	100.0	93.3	93.5
Fresno-1st Street	92.3	94.5	91.3	83.7	88.9	84.6	96.7	98.9	98.9	95.6	94.6	91.3
Modesto-14th Street	100.0	100.0	100.0	100.0	100.0	96.8	100.0	100.0	100.0	100.0	100.0	100.0
Stockton-Hazelton Street	100.0	100.0	100.0	100.0	103.3	100.0	96.7	100.0	100.0	100.0	100.0	100.0
Visalia-N Church Street	100.0	100.0	77.4	106.7	86.7	103.2	96.7	96.8	100.0	93.3	96.8	100.0
Bakersfield-Golden State	90.3	93.3	100.0	100.0	100.0	100.0	93.3	96.8	100.0	100.0	93.3	100.0
Corcoran-Patterson Avenue	83.9	93.3	100.0	93.3	93.3	93.3	93.3	100.0	76.7	93.3	93.3	93.5
Fresno-Hamilton and Winery	93.5	100.0	100.0	100.0	100.0	100.0	86.7	100.0	100.0	100.0	80.0	100.0
Merced-2334 M Street	90.3	100.0	100.0	100.0	100.0	100.0	100.0	96.8	93.3	100.0	100.0	100.0


 Collected data is less than 75 % complete.

Table A-4 Data Substitution for 98th Percentile Calculations, 2004-2006

Air monitoring site	Incomplete quarter	Substituted value	Substituted maximum value from	How many times substituted
Bakersfield - Planz	2 nd Qtr. 2006	30.6 µg/m ³	2 nd Qtr. 2005	16 times
Bakersfield - Planz	4 th Qtr. 2004	78.6 µg/m ³	4 th Qtr. 2006	13 times
Bakersfield - California	3 rd Qtr. 2004	63.1 µg/m ³	3 rd Qtr. 2004	24 times
Clovis - Villa	4 th Qtr. 2005	77.0 µg/m ³	4 th Qtr. 2005	9 times

A.3.3 Varying Sampling Schedules

Table A-5 shows the sampling schedules for San Joaquin Valley air monitoring sites. For non-seasonal monitoring sites, with a “year round” schedule, the sampling cycle does not change during the year. For seasonal monitoring sites, a 1 in 3 day sampling cycle is used from October through March and a 1 in 6 day sampling cycle from April through October. This seasonal schedule ensures that more samples are taken during the times of year when PM_{2.5} tends to be the highest.

Table A-5 Sampling schedules for SJV air monitoring sites, 2004-2006

Air Monitoring Site	Sampling Cycle	Schedule
Bakersfield- Planz	1 in 3 day	year round
Bakersfield - California	Daily	year round
Fresno - 1 st	Daily	year round
Modesto - 14 th	1 in 3 day	year round
Stockton - Hazelton	1 in 3 day	year round
Visalia - Church	1 in 3 day	year round
Merced - M st	1 in 3, 1 in 6 day	seasonal
Fresno - Winery	1 in 3, 1 in 6 day	seasonal
Corcoran - Patterson	1 in 3, 1 in 6 day	seasonal
Bakersfield - Golden	1 in 3, 1 in 6 day	seasonal
Clovis - Villa	1 in 3, 1 in 6 day	seasonal

The 98th percentile is defined as the daily value out of a year of monitoring data below which 98 percent of all values in the group fall. The procedure for calculating the 3-year average 98th percentile value when the site has complete data is as follows: first, sort all data values collected in each year from lowest to highest. Then assign a rank to each data value. Assign rank 1 to the lowest 24-hour average in each year, rank 2 to the second lowest, and so forth. Next, multiply the number of samples taken in the year by 0.98. Take the integer part of the product and add 1. This gives the rank corresponding to the 98th percentile. Find the value that corresponds to the rank. Calculate the 3-year average of all three values for the 98th percentile. Round decimals 0.5 or greater up and those less than 0.5 down. Compare the result to the standard of 65 µg/m³.

The sample calculation for the 3-year average 98th percentile value for Bakersfield - Planz is as follows: First, apply the data completeness test on 2004, 2005, and 2006 Bakersfield - Planz values. As mentioned in the previous paragraph, Bakersfield - Planz had incomplete data for 2006 2nd Quarter and 2004 4th Quarter. 2005 Bakersfield - Planz data was complete. The maximum value over three years for the same quarter was 78.6 µg/m³, which occurred in 4th Quarter of 2006 (substituted 13 times). The maximum value over three years for the 2nd Quarter at Bakersfield - Planz was 30.6 µg/m³, which occurred in 2005 (substituted 16 times). After data substitution, sort all data values collected in a year from lowest to highest.

Assign a rank for each data value. Rank 101, 100, 99 data points in 2006 were 78.6, 64.7, 50.6 $\mu\text{g}/\text{m}^3$, respectively. Next, calculate the rank of the 98th percentile for the year. Multiply, the number of samples taken in 2006 (101 samples) by 0.98, which equals 98.98. Then, take the integer part of the product and add 1. This gives the ranking that corresponds to the 98th percentile, which would be 99. Rank 99 corresponds to 50.6 $\mu\text{g}/\text{m}^3$ value, which is the 2006 98th percentile value. In order to find the 3-year average 98th percentile value, take the 98th percentile values by year as shown in Table 1, 78.6 (2004), 66.4 (2005), and 50.6 (2006) add them and divide by 3. Round the answer to the nearest integer, which would be 65 $\mu\text{g}/\text{m}^3$. Since this value is less than or equal to the PM2.5 NAAQS, Bakersfield - Planz is in attainment of the 24 hour PM2.5 NAAQS.

Calculating the 3-Year Average 98th Percentile for PM2.5 for seasonal sampling frequencies

Five sites (Fresno - Winery, Clovis - Villa, Bakersfield - Golden, Corcoran - Patterson, and Merced - M Street) have seasonal sampling frequencies that change during the year, as shown in Table A-5. Special calculations were performed for these sites to take the seasonal sampling frequencies into account.

The seasonal sampling calculation uses the following formula, where the smallest measured concentration, x , makes $W(x) > .98$:

$$W(x) = d_{high} \frac{d_{high}}{d_{high} + d_{low}} F_{High}(x) + \frac{d_{low}}{d_{high} + d_{low}} F_{Low}(x),$$

d_{high} = number of calendar days in the "High" season,
 d_{low} = number of calendar days in the "Low" season, ($d_{high} + d_{low}$ = days in a year)

$$F_a(x) = \frac{\text{number of samples in season } a \text{ that are } \leq x}{\text{number of samples in season } a}$$

such that $F_a(x)$ can be either High or Low,
 x is the measured concentration, and
 $d_{high} / (d_{high} + d_{low})$ and $d_{low} / (d_{high} + d_{low})$ are constant and are called seasonal "weights"

Example: Bakersfield – Golden 98th percentile value, 2006

The following example shows the procedures in determining the 2006 98th percentile value at Bakersfield - Golden, using the seasonal sampling calculation. The sampling cycle at Bakersfield - Golden is once every third day during the high months (October, November, December, January, February, and March) and once every six days during the low months (April, May, June, July, August, and September). Table A-6 is a

simplified version of the above equation in spreadsheet form. The high season ranking is shown with associated concentration values.

High season seasonal weight (SW) is calculated by taking the number of calendar days in the high season divided by the total number of calendar days in the year (182 days / 365 days) = 0.499.

FHigh is number of samples in season that are higher than the sample shown. For example, for the 61st rank concentration of 76.4 µg/m³, FHigh is calculated by 61 samples (number of samples in the high season that are less than then the smallest measured concentration) / 61 samples (number of samples in the season), which is equal to 1.

Low season SW is calculated by taking the number of calendar days in the low season divided by the total number of calendar days in the year (183 days / 365 days) = 0.501.

Since all of the high concentrations at Bakersfield-Golden for the calculated year occurred in the high season, FLow is 1. After using the following equation to calculate W(x):

$$W(x) = d_{high} \frac{d_{high}}{d_{high} + d_{low}} F_{High}(x) + \frac{d_{low}}{d_{high} + d_{low}} F_{Low}(x),$$

where W(x) = 1

The calculation is performed for the 57, 58, 59, and 60th ranked concentrations. The smallest value of x where W(x) is greater than 0.98 by moving up the right hand column until the first number greater than but not equal to 0.98 (0.983651) is identified. This value, which is the 98th percentile value, corresponds to the concentration of 64.4 µg/m³ for Bakersfield-Golden in 2006.

Table A-6 Calculating Weighted Percentiles for Two Seasons, 2006, Bakersfield Golden

High Season Seasonal Weight (SW) 0.498630137
 Low Season Seasonal Weight (SW) 0.5013699

Rank	Concentration (µg/m ³)	FHigh	FLow	W(x)
61	76.4	1	1	1
60	75.2	0.98360656	1	0.991826
59	64.4	0.96721311	1	0.983651
58	60.9	0.95081967	1	0.975477
57	58.7	0.93442623	1	

First W(x) > 0.98, starting from the lowest ranked, is the 98th percentile

Calculating the PM_{2.5} Annual Mean Value

The annual mean value is calculated by determining the four quarterly means for a site. First, add all the 24-hour average PM_{2.5} sample concentrations for each calendar quarter of a particular year; then divide by the number of samples. Then calculate the annual mean from the four quarterly means. Calculate the annual means for each of the other two years using the same approach above. Then calculate the 3-year average of the annual means. Round the number to the nearest tenth and compare to the NAAQS of 15.0 µg/m³.

The calculation for the PM_{2.5} annual mean value for Bakersfield - Planz in 2006 is as follows: First, apply the data completeness test on the 2006 Bakersfield - Planz measurements. As mentioned in the previous section on calculating the daily 98th percentile value, Bakersfield - Planz had incomplete data for 2006 2nd Quarter. Appendix N states that years with high values that don't meet the completeness test must still be used when the site has at least 11 samples in each quarter (minimum requirement is 11 samples per quarter for all sampling schedules). For Bakersfield - Planz the 2nd Quarter in 2006 had 18 samples. Next, average the samples for each quarter in 2006 and round the value to the nearest tenth, 19.3 µg/m³. These values also appear in Table A-7. Follow the same procedure above for calculating the 2004 (17.4 µg/m³) and 2005 (19.9 µg/m³) annual mean values. Then average the 2004 through 2006 annual mean values and round the value to the nearest tenth, 18.9 µg/m³. Then compare 18.9 µg/m³ to the PM_{2.5} annual mean NAAQS of 15.0 µg/m³. 18.9 µg/m³ is higher than the PM_{2.5} annual mean NAAQS and is non-attainment. Even though the 2nd Quarter 2006 had incomplete data at this site, the annual mean is still considered valid. No data substitution occurred to fill in for missing data to perform the annual mean PM_{2.5} calculation.

Table A-7 Quarterly Averages, 2006 Bakersfield - Planz PM_{2.5} Values

Quarter	Average concentrations (µg/m ³)
1 st Quarter	18.17931
2 nd Quarter	12.12778
3 rd Quarter	19.5
4 th Quarter	27.588
Annual Average	19.3

A.3.4 Data Validity Flags

Some of the measured values in the dataset were marked with a data validity flag. A data validity flag is used to mark data for specific reasons. The following procedures were considered when handling the data validity flags while performing the PM_{2.5} calculations:

1. All data points (values with no codes, capital and lower case validity flags) were used in determining completeness.
2. Data associated with capital letter validity codes were not used in actual attainment calculations.
3. Lower case and numeric "1" validity codes were used to determine completeness and calculate attainment values.
4. The data with the numeric validity "5" code, meaning "outlier, cause unknown" was not used in the actual calculations but only to be counted toward completeness.

The District downloaded the official PM_{2.5} 24-hour averages from EPA on March 21, 2007. On May 7, 2007, the District was informed by ARB that some invalid data collected from October 16, 2005 through November 6, 2005 (8 samples) from the Clovis air-monitoring site remained in the official EPA database. The District took action to remove this data, and the data is no longer in the database. These data were excluded in attainment calculations. Overall, there were 349 samples collected Valley-wide that had a data validity flag applied to the sample. The complete set of data including data with data validity flags for 2004-2006 is shown in Table A-13 at the end of this appendix.

A.4 DATA ANALYSIS, 1999-2006

As required by EPA, the PM_{2.5} monitoring was underway nation-wide beginning in 1999. Table A-8 summarizes the PM_{2.5} 98th percentile value for currently operating PM_{2.5} monitoring sites in the San Joaquin Valley Air Basin (SJVAB) for the years 1999-2006. The calculation of the PM_{2.5} 24-hour 98th percentile concentration is explained in Section A.3 of this Appendix. Table A-9 shows the 24-hour PM_{2.5} 3-year average of the 98th percentile value for each site within the SJVAB for the years 1999-2006. A dash (-) indicates that there is insufficient (or no) data available to determine the value. Table A-10 summarizes the PM_{2.5} annual values for currently operating sites in the SJVAB for the years 1999-2006. The calculation of the annual PM_{2.5} concentration is also explained in Section A.3 of this Appendix. Table A-11 shows the PM_{2.5} 3-year average annual mean values for each site within the SJVAB for the years 1999-2006.

Current attainment status is determined for each site by analyzing PM_{2.5} measurements² from 2004 through 2006. If any monitoring site within the SJVAB has

² 40 CFR (Code of Federal Regulations) Part 50, Appendix N require that attainment calculations be based on at least the most recent three complete years of quality reviewed data.

both a 3-year average 98th percentile 24-hour PM_{2.5} design value that is greater than 65 µg/m³ and a 3-year annual mean PM_{2.5} design value that is greater than 15.0 µg/m³, then the entire air basin is designated nonattainment³. Table A-12 summarizes the current attainment status on a site-by-site basis. Bold values indicate values over the National Ambient Air Quality Standard (NAAQS). Table A-12 shows that three of the 11 air monitoring sites (Stockton, Modesto, and Merced) in the SJVAB currently meet the attainment test for PM_{2.5}. Eight out of 11 sites are nonattainment for the PM_{2.5} standard for the 2004-2006 time period, and three of the sites attain the PM_{2.5} NAAQS. This is an improvement from the 1999-2001 period, when all sites were nonattainment⁴.

Figures A-1 through A-11 show the 3-year average 98th percentile 24-hour average PM_{2.5} concentrations for each San Joaquin Valley air monitoring site. Figures A-12 through A-22 show the 3-year annual mean design values for 1999-2006. The years stated on the x-axis in Figures A-1 through A-22 represent the end year of the 3-year averaging period. Figure A-23 and Figure A-24 illustrates the San Joaquin Valley air basin map as a bubble chart with 3-year average 98th percentile 24 hour average from the year 2002 and 2006, respectively. Figure A-25 and Figure A-26 shows the San Joaquin Valley air basin map as a bubble chart with 3-year annual mean PM_{2.5} design values depicted on a site-by-site basis from the year 2002 and 2006, respectively. Figures A-23 and A-24 depict an improvement of the PM_{2.5} air quality from 2002 to 2006. More air quality trend data can be found at <<http://www.arb.ca.gov>>.

A.5 TREND AND SPATIAL VARIATIONS

A.5.1 Local Trends

While the peak San Joaquin Valley design value site trend (Bakersfield - Planz) remains essentially unchanged, a majority of the sites are improving. Ten of the 11 air monitoring sites in the SJVAB are showing an improving air quality trend: Stockton, Modesto, Merced, Fresno-1st, Fresno-Winery, Clovis, Corcoran, Visalia, Bakersfield-California, and Bakersfield-Golden. Tables A-8 through A-11 show PM_{2.5} averages from 1999-2006. Table A-12 shows the attainment status for each SJV site based on 2004-2006 data. Figures A-2 through A-22 show improving trends. The degree of the improvement of the trend varies from essentially unchanged at Bakersfield-Planz (Figure A-3) to downward at Visalia -Church (Figure A-15).

³ Under the 1997 PM_{2.5} standard, the standard upon which this plan is based.

⁴ Please note that Fresno-1st had incomplete data for 2001 for the annual mean calculation. However, based on the years before and after, the annual mean value would have been above the NAAQS in 2001.

Table A-8 24-hour PM_{2.5} 98th percentile values (µg/m³), 1999-2006

Site	1999	2000	2001	2002	2003	2004	2005	2006
Stockton	79.0	55.0	58.0	50.0	41.0	36.0	44.0	42.0
Modesto	95.0	71.0	64.0	64.0	47.0	45.0	55.0	52.0
Merced	**	80.3	**	55.1	44.2	43.0	48.3	43.8
Fresno-1st	119.0	89.0	67.0	75.0	55.0	52.0	71.0	51.0
Fresno-Winery	*	64.8	61.5	71.9	49.7	49.4	71.2	55.0
Clovis	59.2	72.5	71.5	53.2	**	42.4	77.0	51.3
Corcoran	**	**	89.5	65.1	42.2	49.4	74.5	50.1
Visalia	114.0	103.0	96.0	53.0	47.0	54.0	65.0	50.0
Bakersfield-Golden	95.3	85.6	86.1	80.4	51.9	53.8	74.9	64.4
Bakersfield-California	**	88.8	94.9	66.8	85.7	63.1	63.6	60.5
Bakersfield-Planz	*	**	90.6	66.8	47.5	78.6	66.4	50.6

* Monitor not in operation.

** Does not meet the requirement for the 50% of the observations in each quarter. Can't calculate the 98th percentile through substitution.

Derived value via data substitution.

Valid data, but does not meet the 75% data completeness test.

98th percentile value changed due to flagged data.

Table A-9 3-year average of the 24-hour PM_{2.5} 98th percentile values (µg / m³)

Site	1999-2001	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006
Stockton	64	54	50	42	40	41
Modesto	77	66	58	52	49	51
Merced	-	-	-	47	45	45
Fresno-1st	-	-	66	61	59	58
Fresno-Winery	-	66	61	57	57	59
Clovis	68	66	-	-	-	57
Corcoran	-	-	66	52	55	58
Visalia	104	84	65	51	55	56
Bakersfield-Golden	89	84	73	62	60	64
Bakersfield-California	-	84	82	72	71	62
Bakersfield-Planz	-	-	68	64	64	65

Valid but does not meet the 75% data completeness test.

- A dash indicates that there is insufficient data available to determine the average value.

Table A-10 Annual mean PM_{2.5} value concentrations (µg/m³)

Site	1999	2000	2001	2002	2003	2004	2005	2006
Stockton	19.8	16.8	13.8	16.7	13.4	13.2	12.5	13.1
Modesto	24.4	18.7	17.0	18.4	14.5	13.6	13.9	14.8
Merced		16.7	16.6	18.7	15.5	15.3	14.1	14.8
Fresno-1st	26.9		19.1	21.0	17.6	16.4	16.9	16.8
Fresno-Winery		18.6	18.7	21.4	17.8	17.0	16.9	17.6
Clovis	19.8	16.3	18.2	16.2		15.8	16.0	16.8
Corcoran		16.2	19.2	21.5	16.2	17.3	17.6	16.7
Visalia	27.6	23.7	22.5	19.4	18.2	17.0	18.8	18.8
Bakersfield-Golden	26.2	21.7	19.8	24.2	19.6	18.1	18.9	18.6
Bakersfield-California	22.5	22.1	21.7	23.4	16.9	19.0	17.9	18.7
Bakersfield-Planz		20.3	23.9	23.7	17.8	17.4	19.9	19.3

Annual average considered valid (each quarter has more than 11 samples), but does not meet the 75% completeness requirement.

Does not meet the requirement for 50% of the observations in a quarter.

Table A-11 3-year average of the annual mean PM_{2.5} values (µg/m³)

Site	1999 - 2001	2000- 2002	2001- 2003	2002- 2004	2003- 2005	2004- 2006
Stockton	16.8	15.8	14.6	14.4	13.0	12.9
Modesto	20.0	18.0	16.6	15.5	14.0	14.1
Merced	-	17.3	16.9	16.5	15.0	14.7
Fresno-1st	-	-	19.3	18.3	17.0	16.7
Fresno-Winery	-	19.6	19.3	18.7	17.2	17.2
Clovis	18.1	16.9	-	-	-	16.2
Corcoran	-	19.0	19.0	18.3	17.0	17.2
Visalia	24.6	21.9	20.1	18.2	18.0	18.2
Bakersfield-Golden	22.6	21.9	21.2	20.6	18.9	18.5
Bakersfield-California	22.1	22.4	20.7	19.8	17.9	18.5
Bakersfield-Planz	-	22.6	21.8	19.6	18.4	18.9

Annual average considered valid (each quarter has more than 11 samples), but does not meet the 75% completeness requirement.

A dash indicates that there is insufficient data available to determine the value.

Table A-12 Current (2004 – 2006) PM_{2.5} air quality design values and attainment status for the San Joaquin Valley Air Basin

Monitoring Station	Attainment Tests		Attainment Status**
	Three -Year Average 98 th Percentile 24 hr. ($\mu\text{g} / \text{m}^3$)*	Three - Year Annual Average ($\mu\text{g} / \text{m}^3$)	
Stockton	41	12.9	Yes
Modesto	51	14.1	Yes
Merced	45	14.7	Yes
Fresno-1st	58	16.7	No
Fresno-Winery	59	17.2	No
Clovis	57	16.2	No
Corcoran	58	17.2	No
Visalia	56	18.2	No
Bakersfield-Golden	64	18.5	No
Bakersfield-California	62	18.5	No
Bakersfield-Planz	65	18.9	No

* First, average the 4 quarterly values for each of three years, then next average those three values to obtain the three-year average.

** A station is considered in attainment if the three- year average 98th percentile 24-hour PM_{2.5} concentration is less than or equal to 65 $\mu\text{g} / \text{m}^3$ and the three year average annual PM_{2.5} concentration is less than or equal to 15.0 $\mu\text{g} / \text{m}^3$.

Bold is considered nonattainment.

Figure A-1 Bakersfield - Planz 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

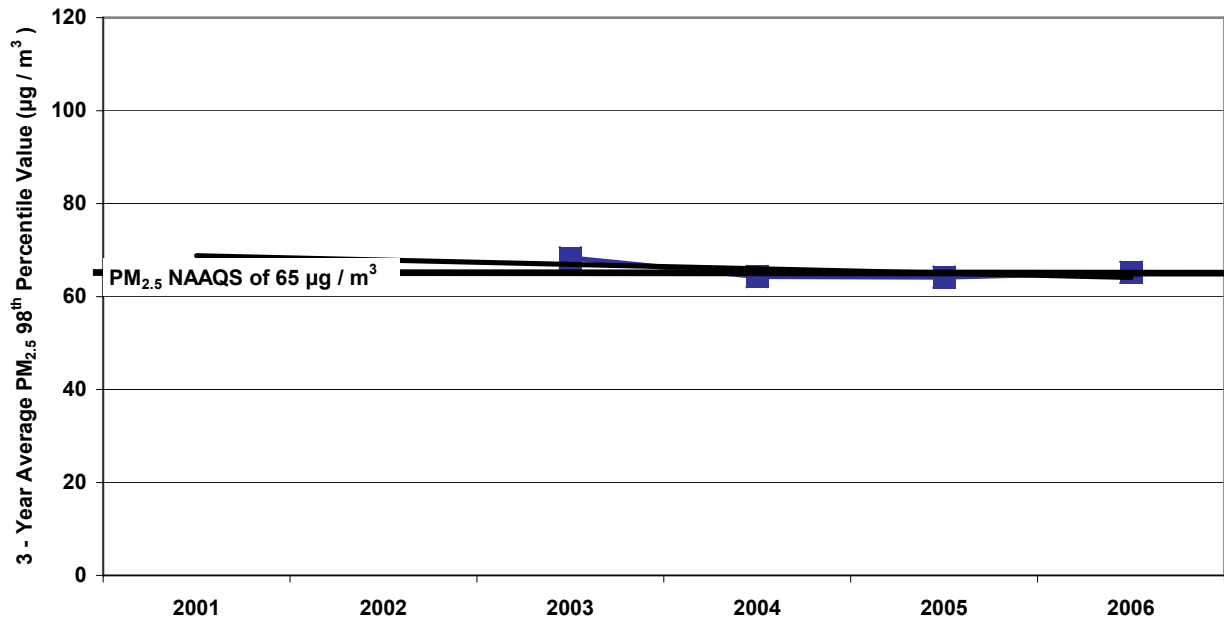


Figure A-2 Bakersfield - California 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

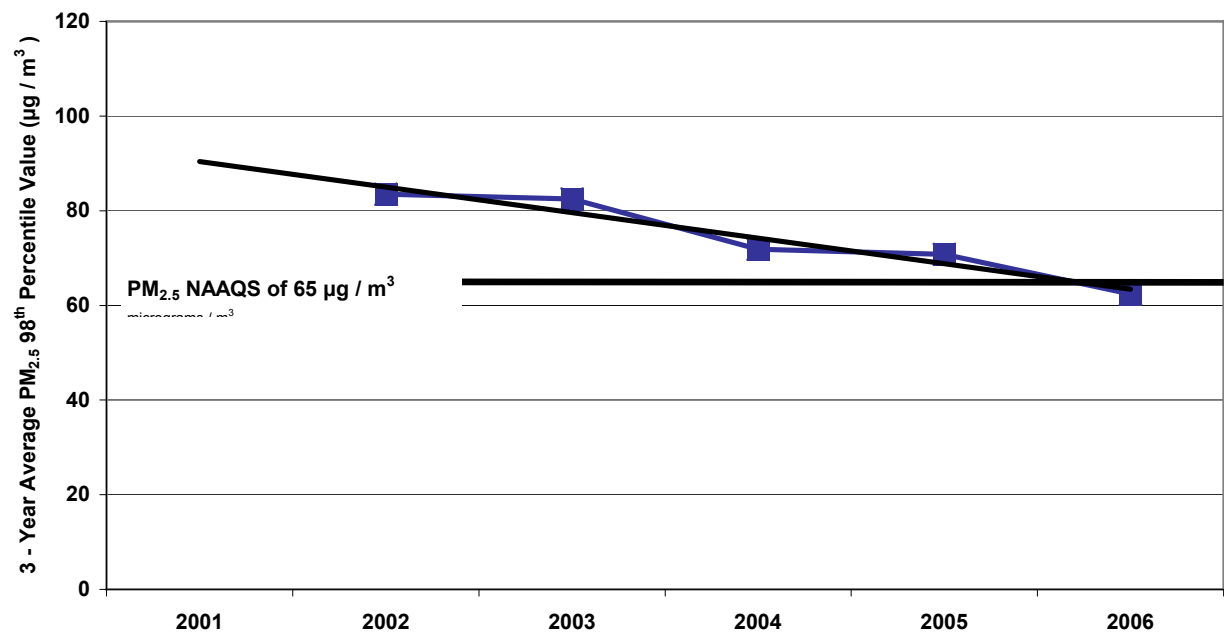


Figure A-3 Bakersfield - Golden 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

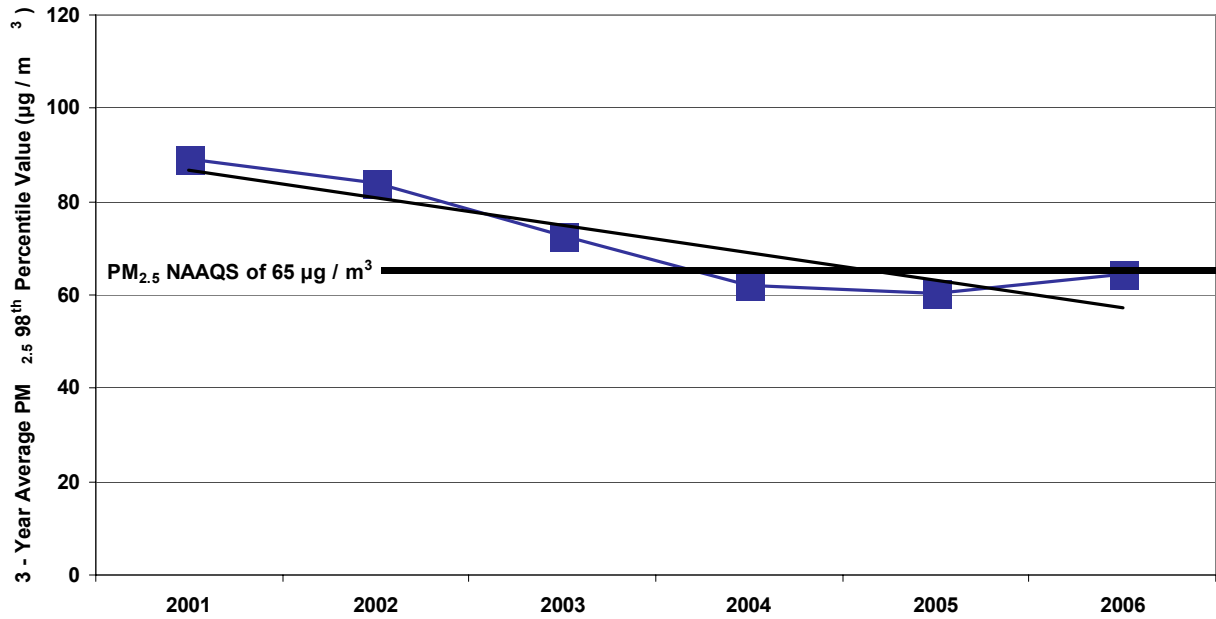


Figure A-4 Visalia 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

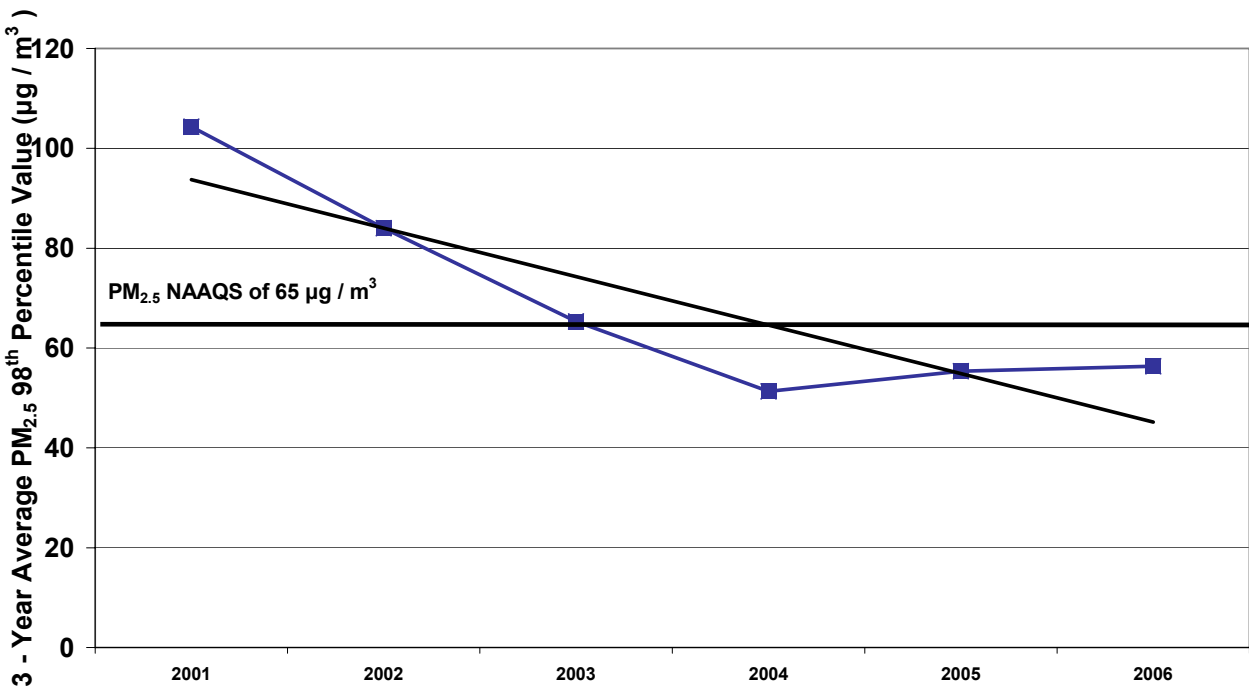


Figure A-5 Corcoran 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

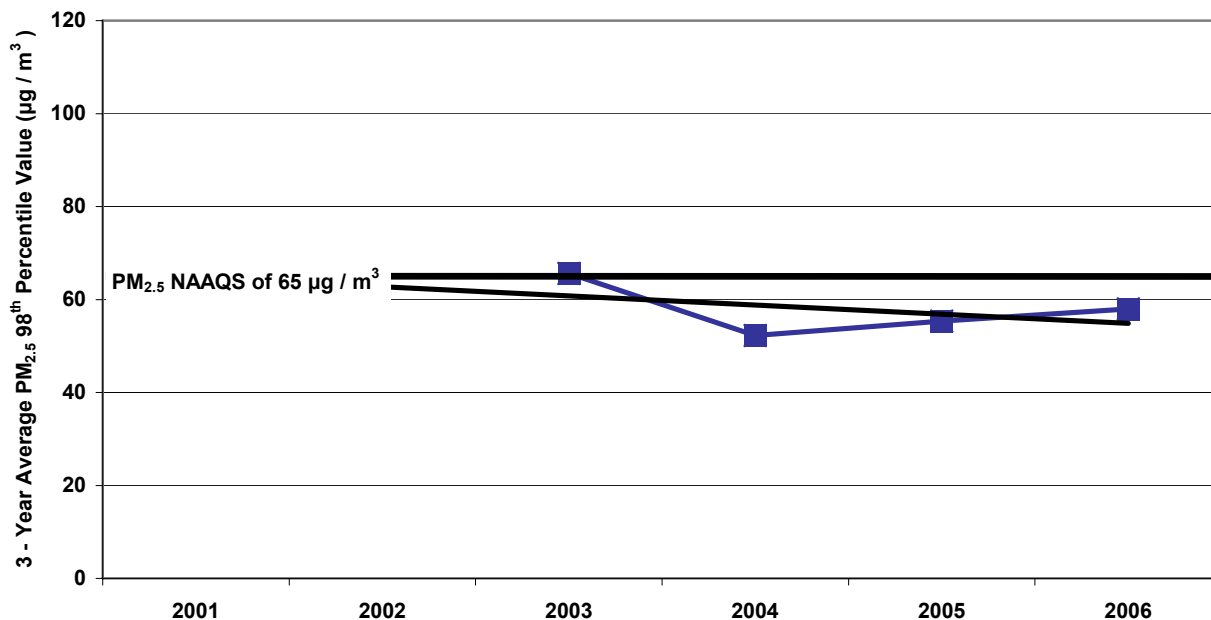


Figure A-6 Fresno-Winery 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

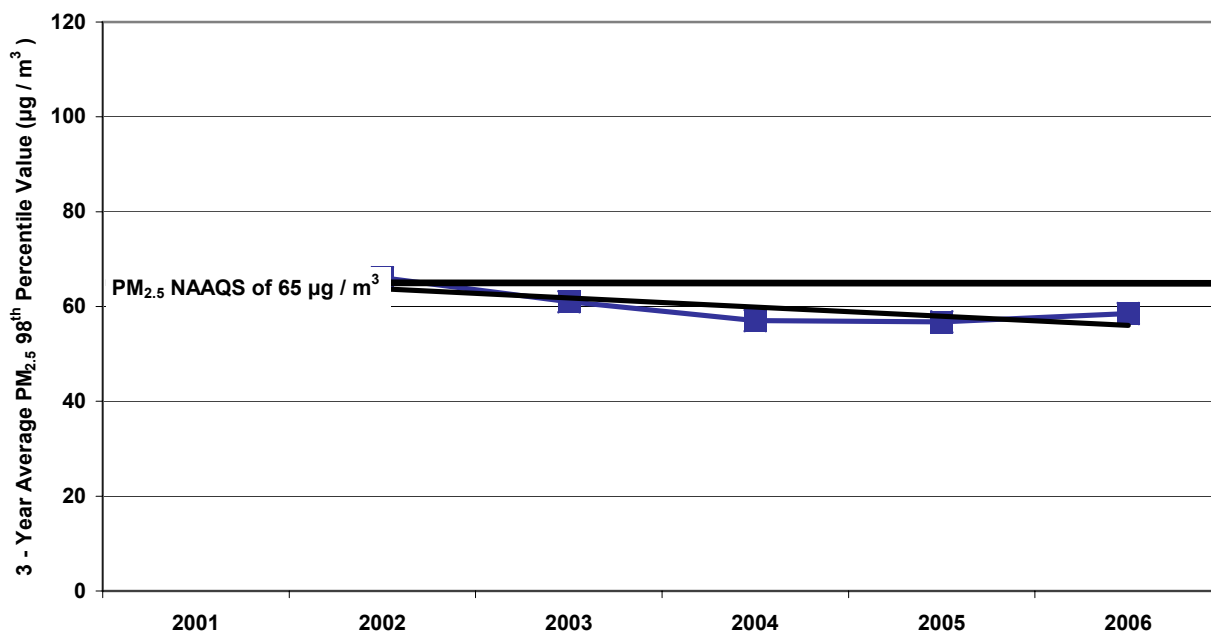


Figure A-7 Fresno-1st 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 2001 (1999-2001 average) to 2006 (2004-2006 average)

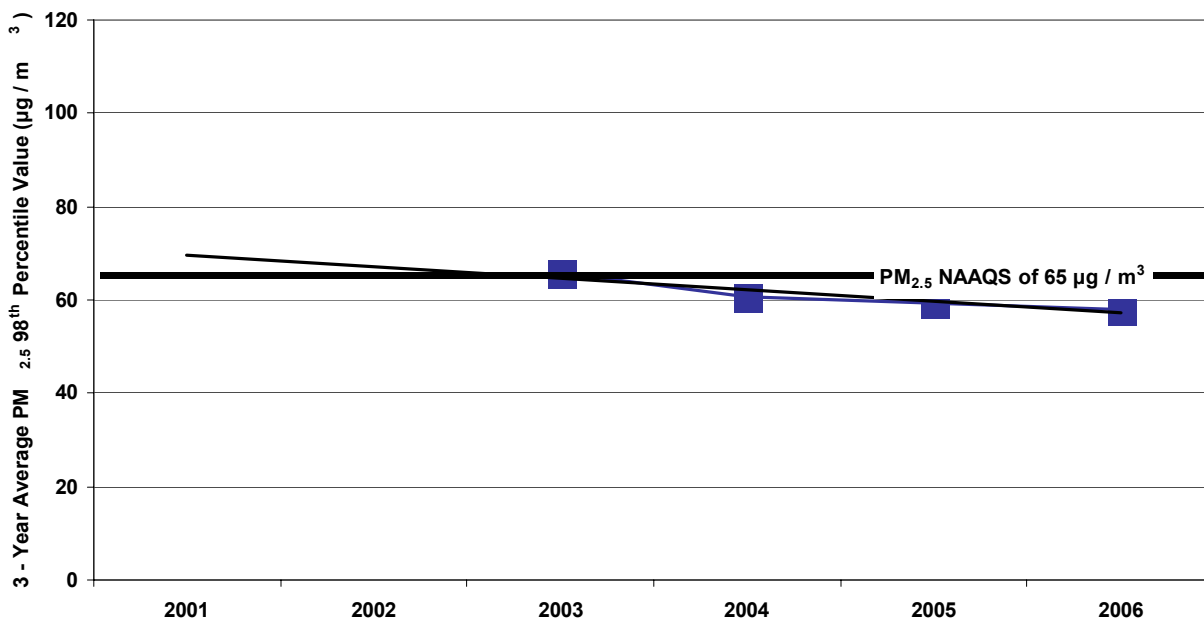


Figure A-8 Clovis 3-year average 98th Percentile 24-hour average PM_{2.5} concentrations

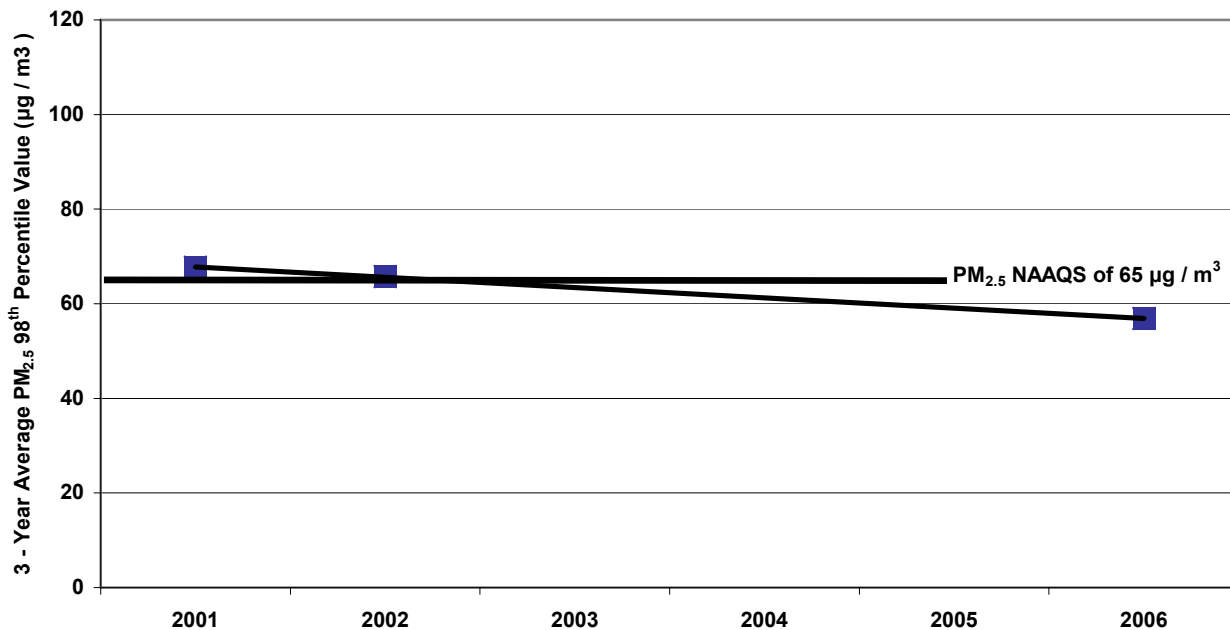


Figure A-9 Merced - M Street 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 1999 to 2006

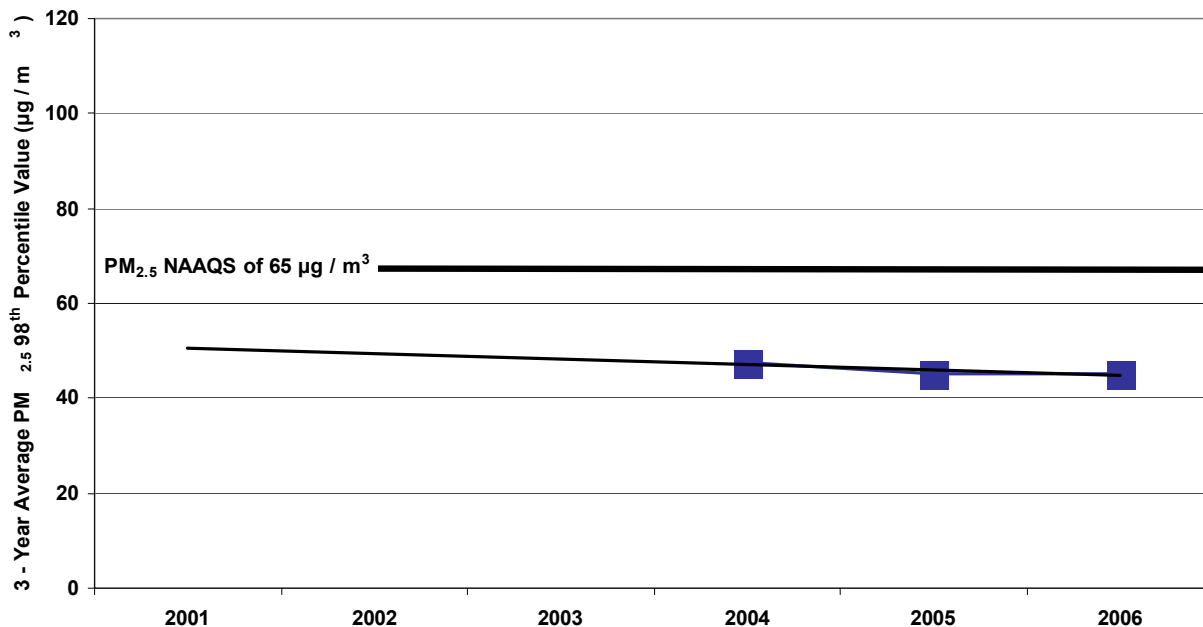


Figure A-10 Modesto 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 1999 to 2006

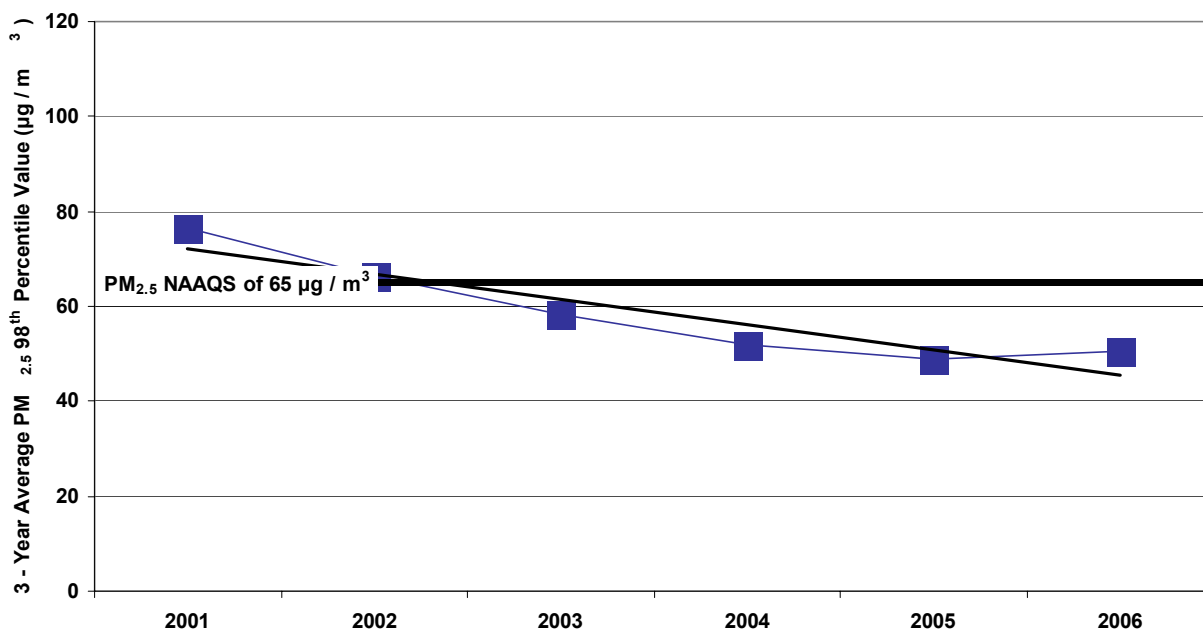


Figure A-11 Stockton 3-year average 98th percentile 24-hour average PM_{2.5} concentrations from 1999 to 2006

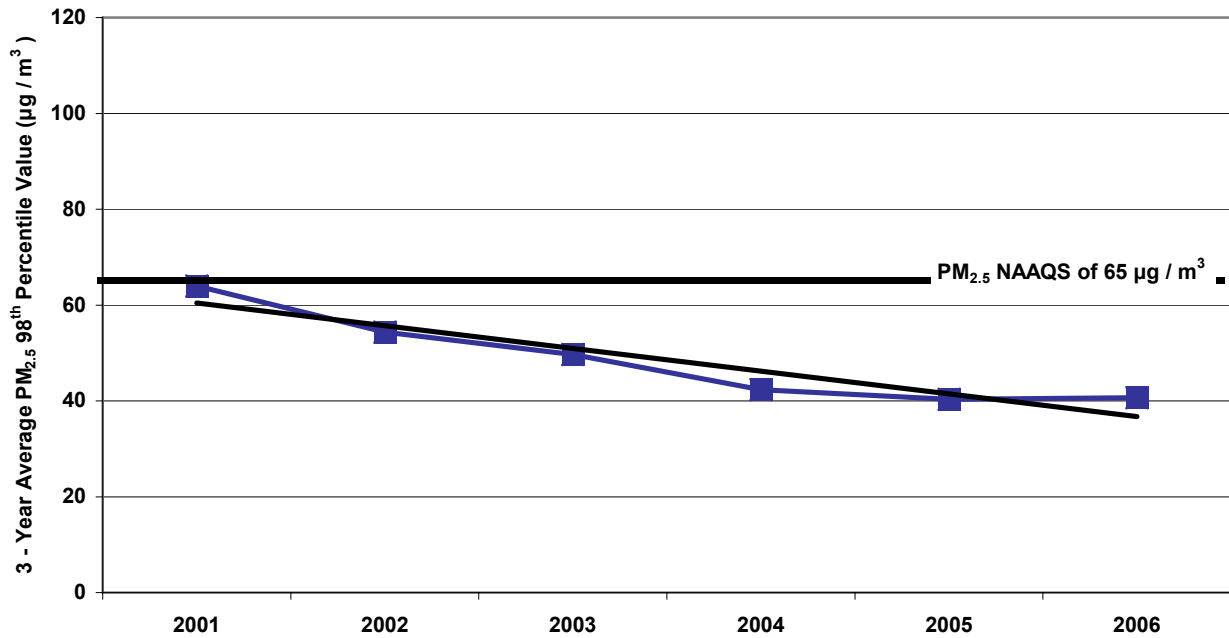


Figure A-12 Bakersfield - Planz 3-year average PM_{2.5} annual mean value from 1999 to 2006

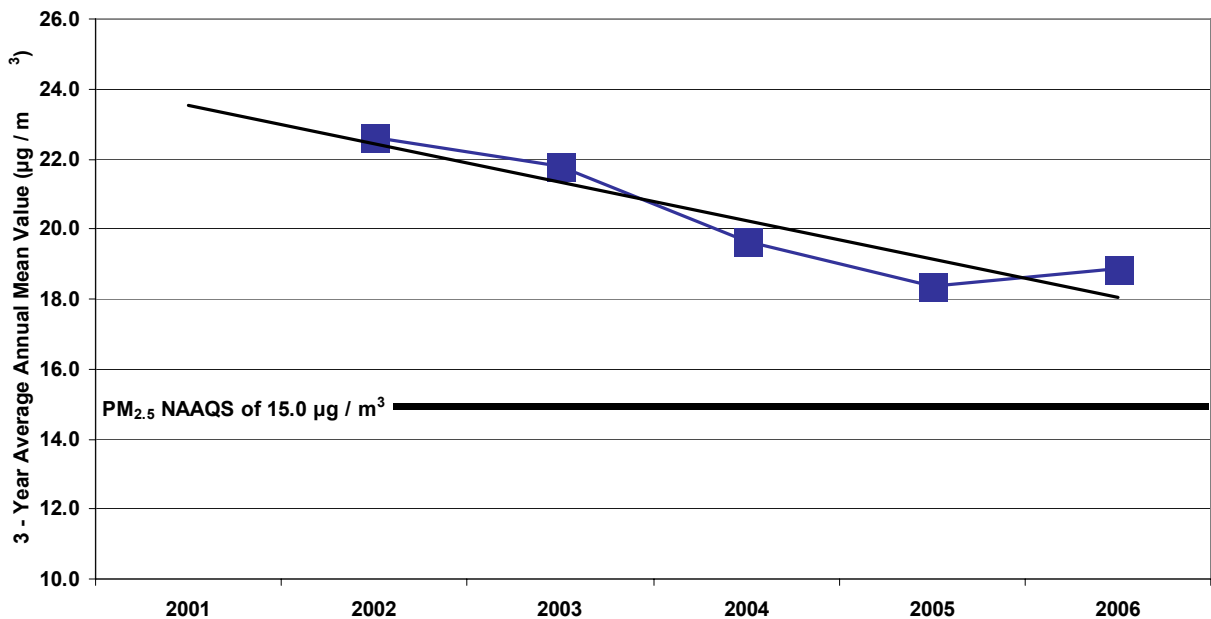


Figure A-13 Bakersfield - California 3-year average PM2.5 annual mean value from 1999 to 2006

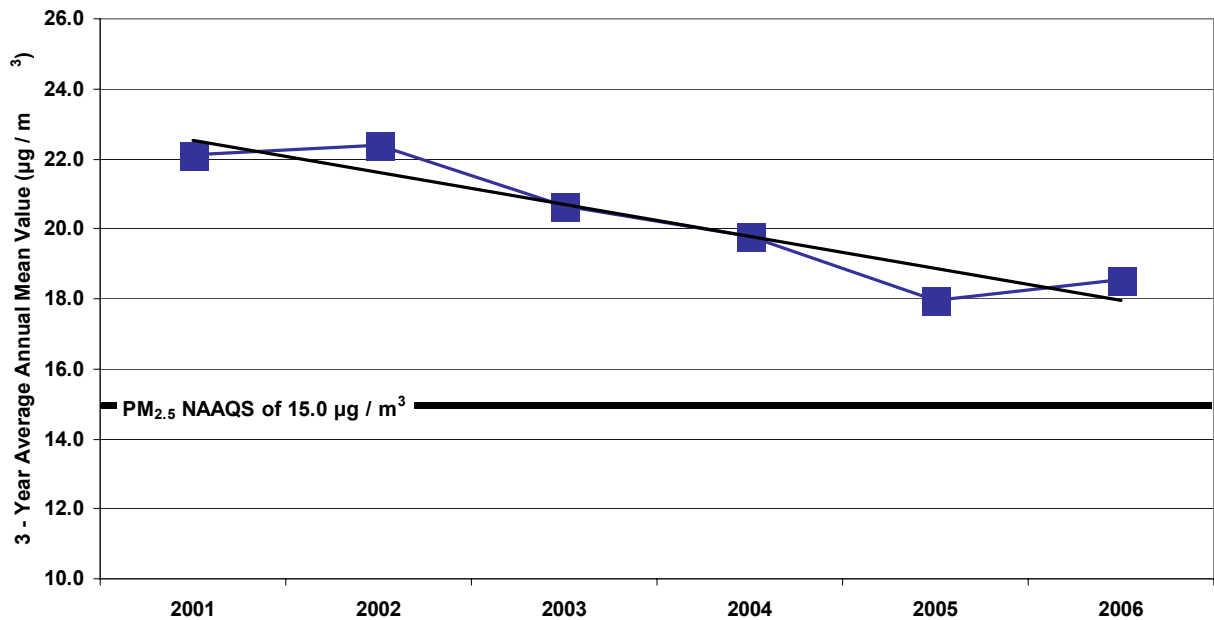


Figure A-14 Bakersfield - Golden 3-year average PM2.5 annual mean value from 1999 to 2006

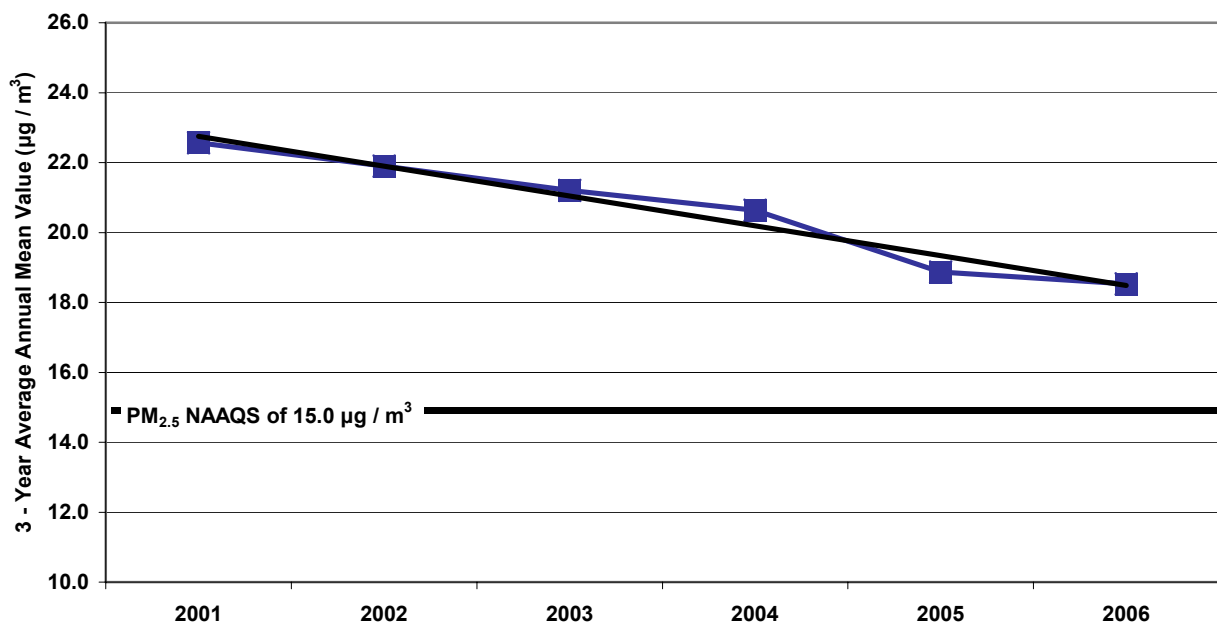


Figure A-15 Visalia 3-year average PM2.5 annual mean value from 1999 to 2006

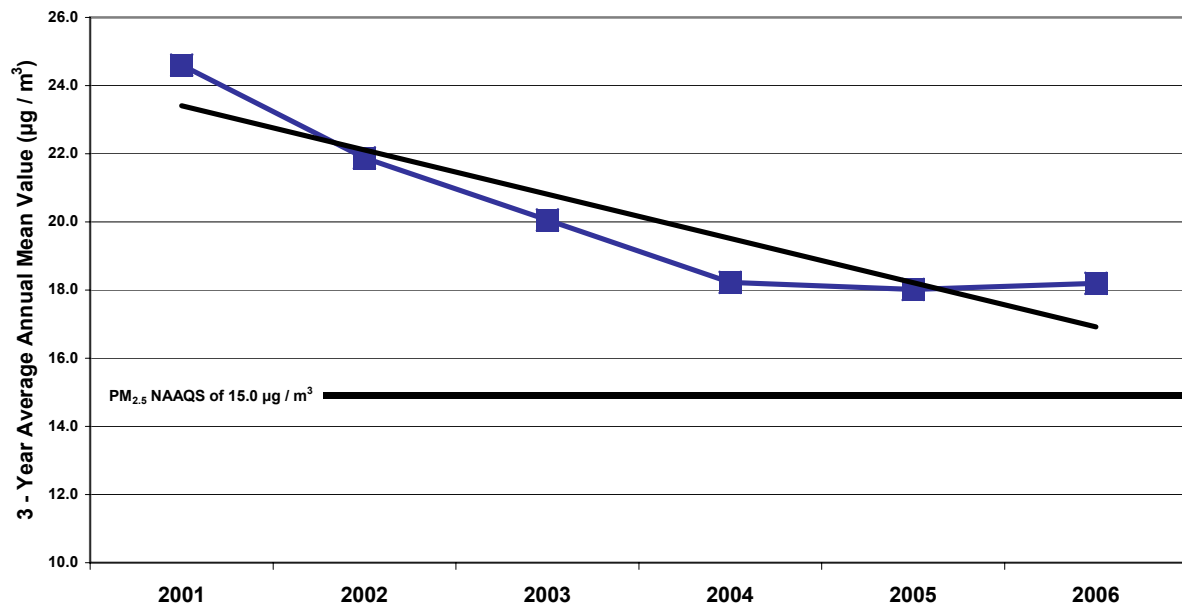


Figure A-16 Corcoran 3-year average PM2.5 annual mean value from 1999 to 2006

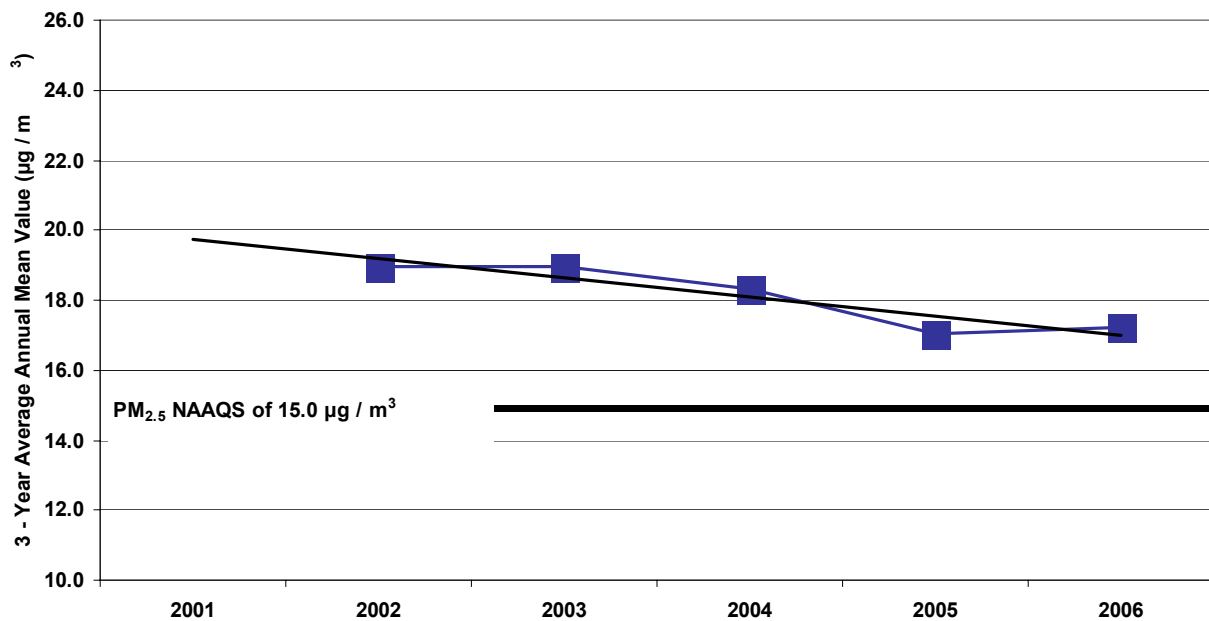


Figure A-17 Fresno-Winery 3-year average PM2.5 annual mean value from 1999 to 2006

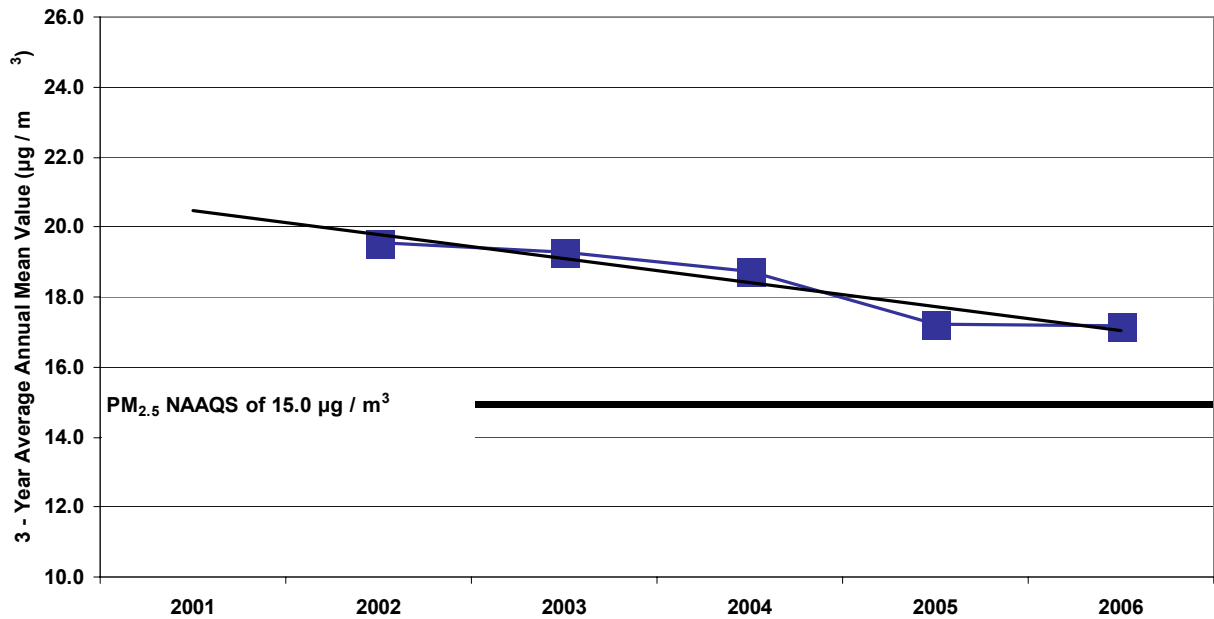


Figure A-18 Fresno-1st 3-year average PM2.5 annual mean value from 1999 to 2006

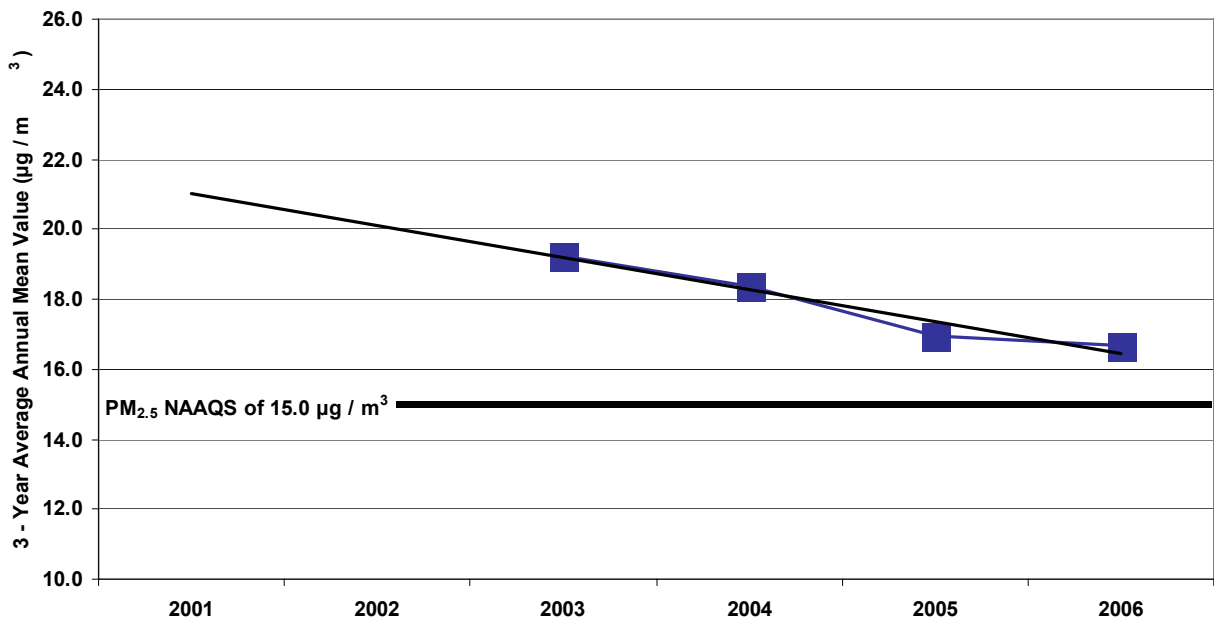


Figure A-19 Clovis 3-year average PM2.5 annual mean value from 1999 to 2006

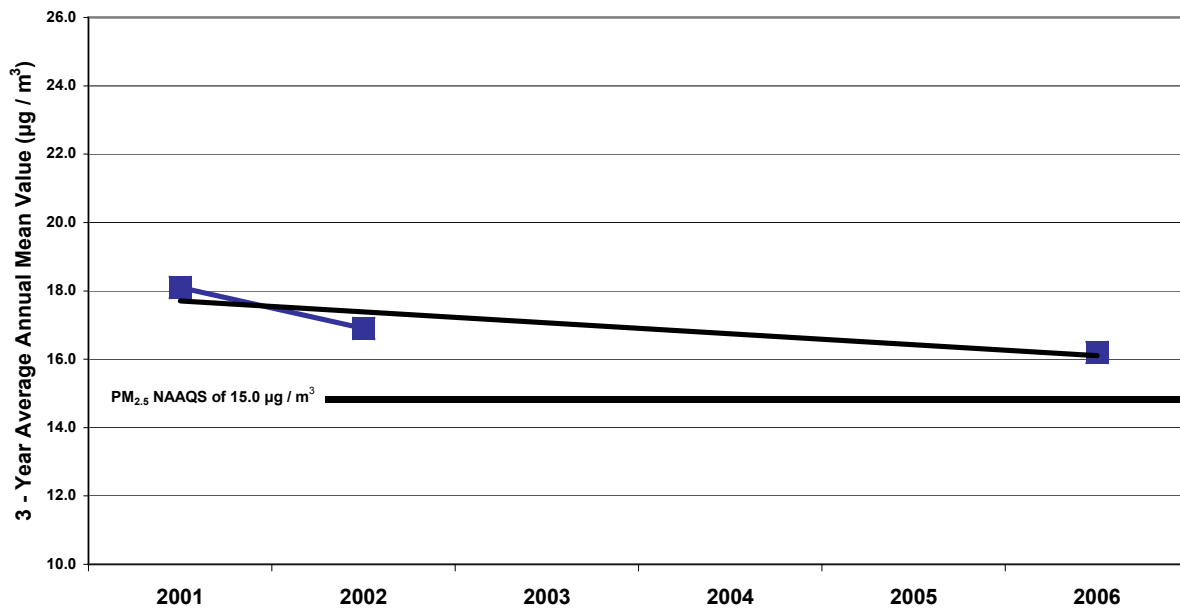


Figure A-20 Merced M Street 3-year average PM2.5 annual mean value from 1999 to 2006

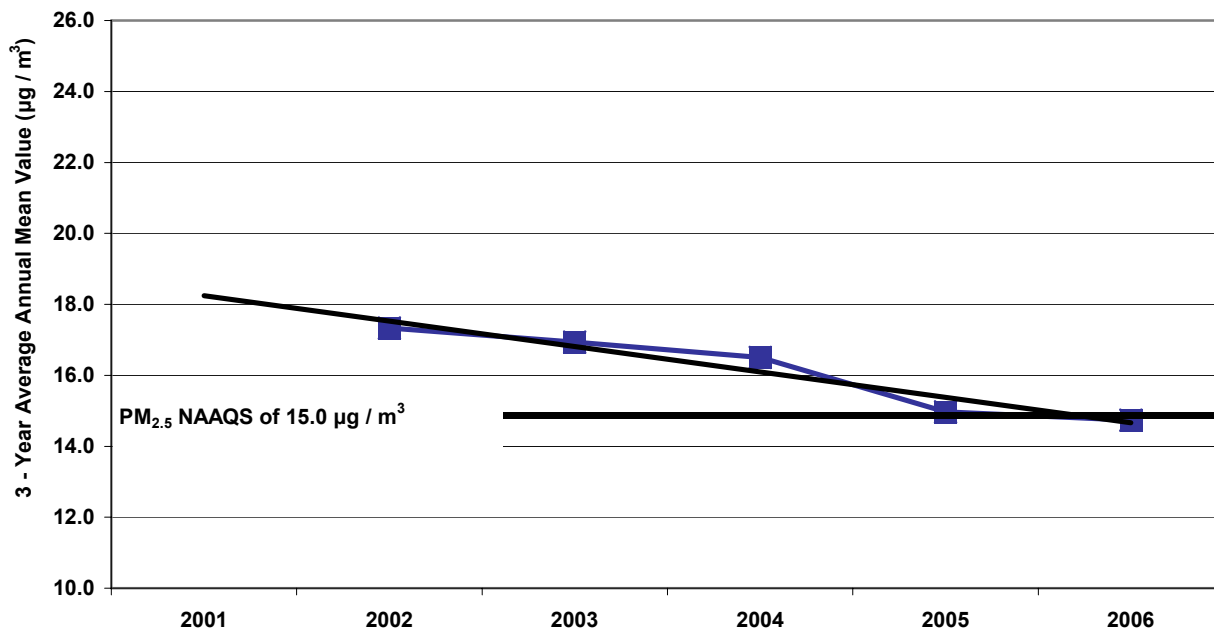


Figure A-21 Modesto - 14th 3-year average PM2.5 annual mean value from 1999 to 2006

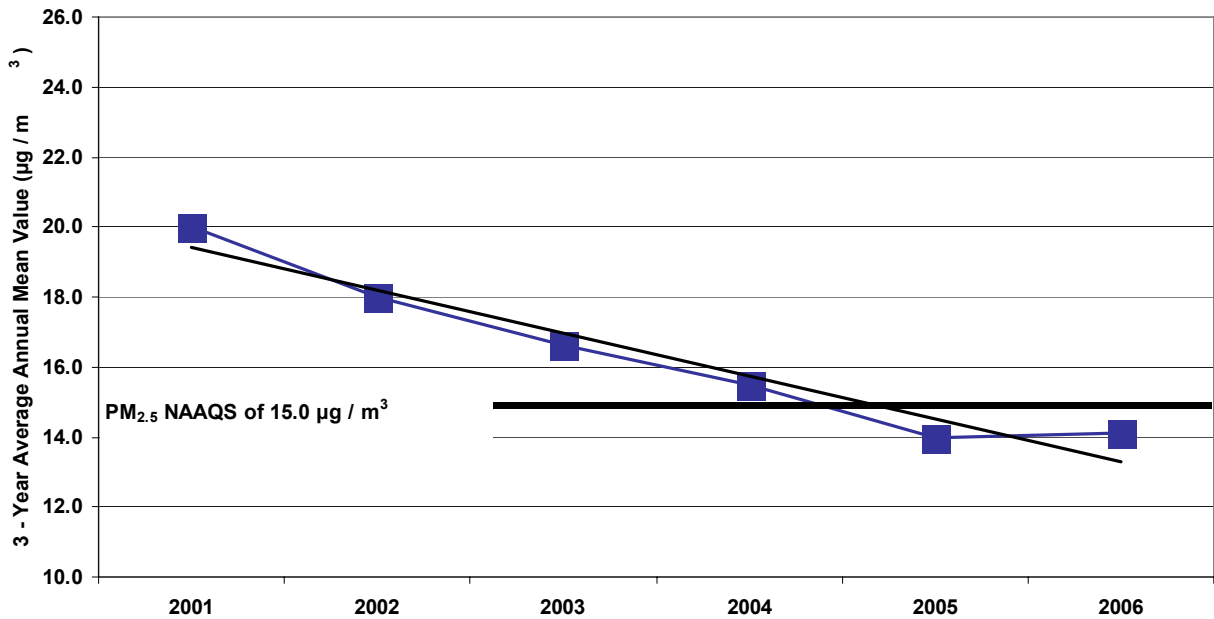


Figure A-22 Stockton - Hazelton 3-year average PM2.5 annual mean value from 1999 to 2006

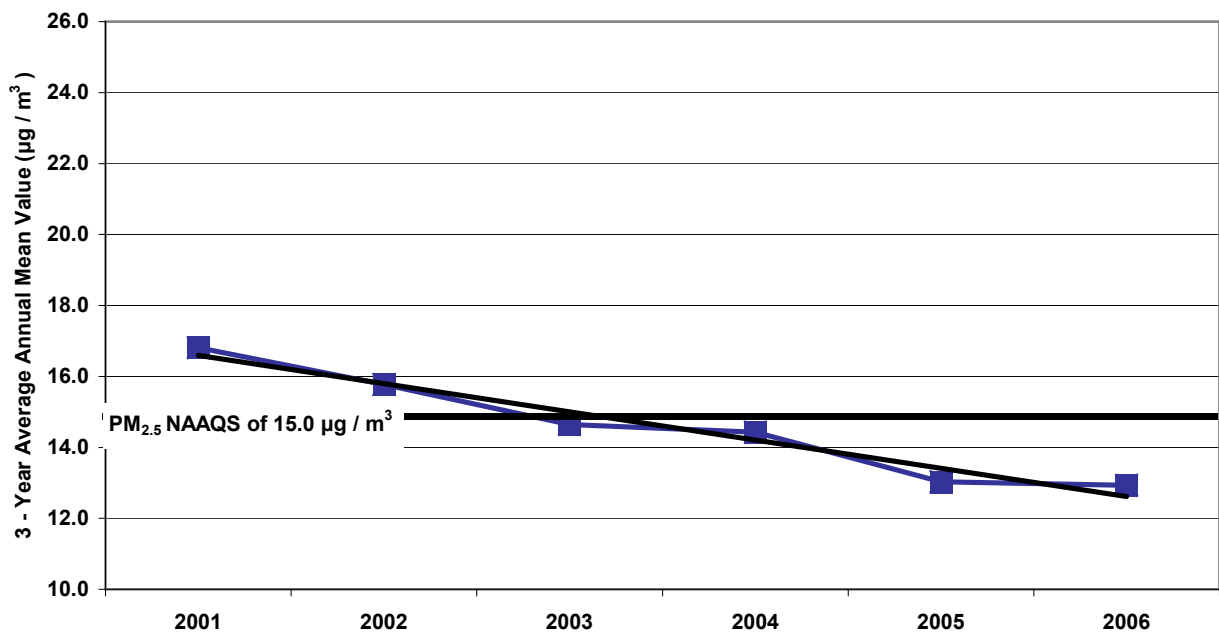


Figure A-23 PM2.5 24-hour Design Value Comparison, 2002 and 2006

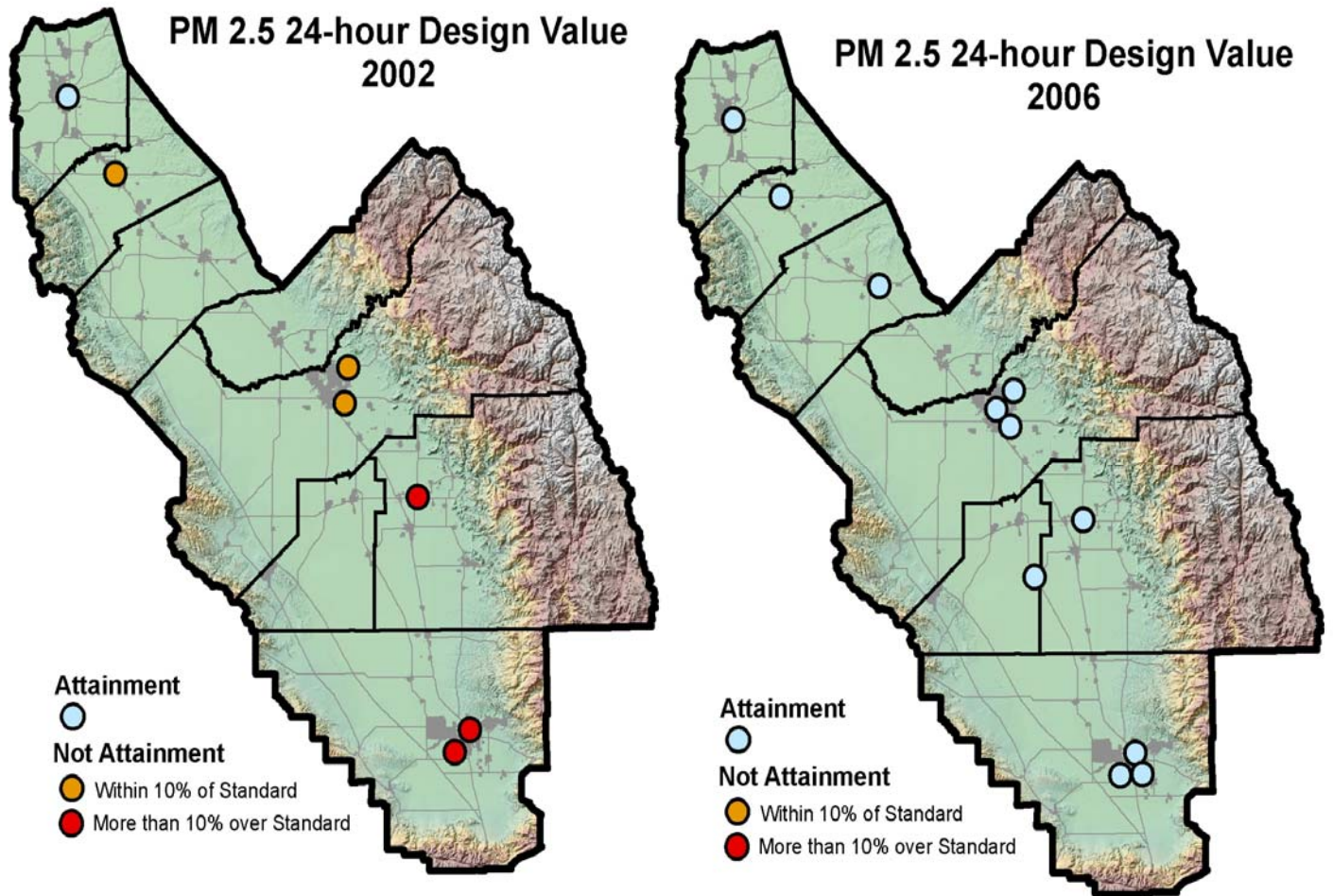
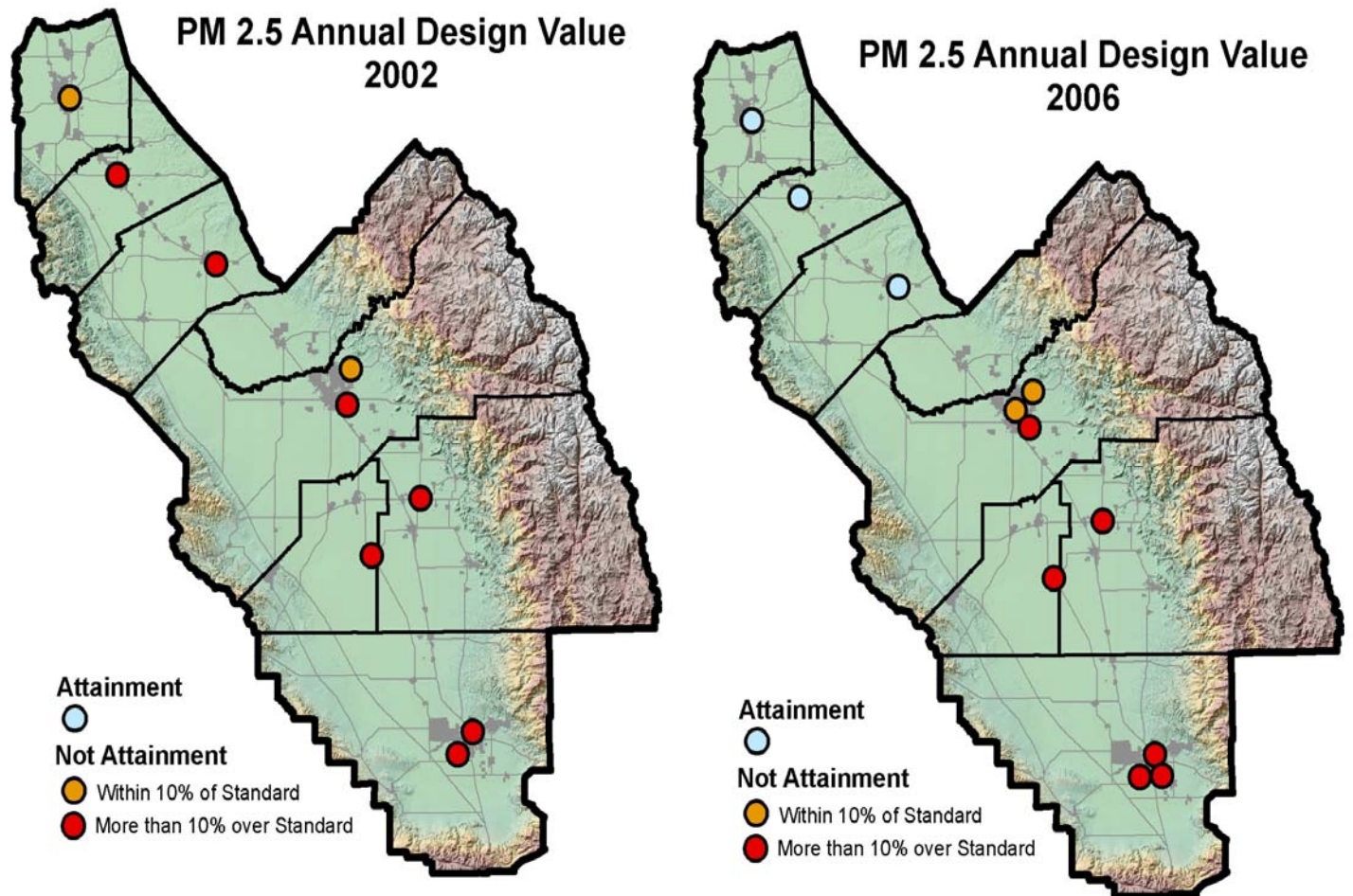


Figure A-24 PM2.5 Annual Mean Design Value Comparison, 2002 and 2006



A.6 RESULTS USING PRELIMINARY 2007 REAL-TIME 24-HOUR PM2.5 DATA

The District used real-time non-Federal Reference Method BAM data to calculate preliminary 2007 24-hour PM2.5 98th percentile values and the three-year (2005 through 2007) 24-hour average 98th percentile values. The data used in this calculation is preliminary and is subject to change.

Air quality meets the 24-hour PM2.5 standard when the average of the annual 98th percentile PM2.5 value is less than or equal to 65 µg/m³ at each monitoring site. "Daily value" for PM refers to the 24-hour average concentration of PM calculated or measured from midnight to midnight local standard time for PM2.5. Average and mean refer to an arithmetic mean. The data completeness test is performed for each site prior to calculating the 98th Percentile and Annual Mean PM2.5 values to ensure that each site has enough values to be compared to the NAAQS. A site meets the data completeness test when at least 75% of the scheduled sampling days for each quarter have valid data. All sites in 2007 meet data completeness requirements using real-time non-Federal Reference Method BAM data.

According to the preliminary real-time 2007 non-Federal Reference Method BAM data, all San Joaquin Valley (SJV) air monitoring sites meet the 24 hour "1997" PM2.5 NAAQS (Table A-13) except Clovis, Bakersfield-Golden, and Bakersfield-California. Once the official 2007 Federal Reference Method PM2.5 data is available, typically no earlier than July 1st, 2008, the District will perform the necessary 24-hour and annual PM2.5 attainment calculations and determine the designation status.

Table A-13 24 - hour PM2.5 98th percentile values (µg / m³).
2007 data is considered preliminary.

SJV SITE	2005	2006	2007*	AVG. 05-07
Stockton	44.0	42.0	50.0	45
Tracy	§	§	39.0	§
Modesto	55.0	52.0	64.0	57
Turlock	§	§	58.0	§
Merced	48.3	43.8	#	#
Fresno-1st	71.0	51.0	70.0	64
Fresno-Winery	71.2	55.0	#	#
Clovis	77.0	51.3	72.0	67
Corcoran	74.5	50.1	67.0	64
Visalia	65.0	50.0	67.0	61
Bakersfield-Golden	74.9	64.4	74.0	71
Bakersfield-California	63.6	60.5	77.0	67
Bakersfield-Planz	66.4	50.6	#	#

Derived value via data substitution.

* - 2007 PM2.5 data is from a BAM which is considered preliminary and subject to change.

§ - Federal Reference Method monitors are not located at these sites.

- Real time data is not available.

Table 14 Complete Air Quality Data, 2004-2006

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-0008 POC: 1
 COUNTY: (019) Fresno
 CITY: (27000) Fresno
 STATE: (06) California
 AQCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA

SITE ADDRESS: 3425 N FIRST ST, FRESNO
 SITE COMMENTS: RELOCATED ABOUT 1-2/3 MI. NNW OF FRESNO-OLIVE AVENUE SITE. ARE SITE NAME (#) IS FI LAND USE: RESIDENTIAL
 MONITOR COMMENTS: PRIMARY PM2.5 RAP SEQUENTIAL SAMPLER SUBURBAN

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SIAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/W
 REPORTING ORG: (0145) California Air Resources Board

RAW DATA REPORT
 DATE: Mar. 21, 2007
 CAS NUMBER:
 LATITUDE: 36.781389
 LONGITUDE: -119.772222
 UTM ZONE: 11
 UTM NORTHING: 4074004
 UTM EASTING: 252601
 ELEVATION-MSL: 0
 PROBE HEIGHT: 9.2

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	12.0	38.0	17.0	6.0	11.0	9.0	9.0	AF	10.0	11.0	43.0	57.0
2	6.0	14.0	8.0	9.0	13.0	9.0	11.0	AF	8.0	14.0	31.0	P 69.0
3	10.0	13.0	18.0	9.0	14.0	8.0	9.0	9.0	10.0	16.0	16.0	P 71.0
4	26.0	12.0	25.0	7.0	AF	9.0	27.0	10.0	16.0	12.0	7.0	60.0
5	39.0 J	37.0	25.0	AF	6.0	6.0	15.0	6.0	12.0	15.0	AF	AF
6	39.0 J	26.0	21.0	7.0	8.0	6.0	10.0	5.0	12.0	17.0	46.0	12.0
7	26.0	13.0	18.0	12.0	7.0	5.0	8.0	12.0	16.0	10.0	37.0	12.0
8	21.0 J	35.0	19.0	14.0	4.0	5.0	10.0	13.0	15.0	12.0	43.0	17.0
9	AF	31.0	15.0	18.0	6.0	7.0	8.0	10.0	13.0	4.0	23.0	24.0
10	26.0	AF	28.0	15.0	5.0	7.0	9.0	11.0	12.0	7.0	29.0	28.0
11	26.0	39.0	AF	13.0	5.0	8.0	9.0	11.0	11.0	10.0	21.0	AF
12	26.0 J	29.0	21.0	11.0	7.0	10.0	11.0	13.0	6.0	11.0	15.0	AF
13	30.0	11.0	25.0	5.0	7.0	8.0	8.0	12.0	8.0	13.0	28.0	AF
14	33.0	19.0	19.0	6.0	8.0	8.0	7.0	12.0	9.0	15.0	33.0 Y	13.0
15	27.0	26.0	23.0	6.0	6.0	11.0	10.0	AS	9.0	20.0	39.0	16.0
16	33.0	28.0	27.0	5.0	6.0	11.0	8.0	7.0	12.0	25.0	33.0	34.0
17	31.0	26.0	16.0	27.0	7.0	14.0	6.0	7.0	13.0	6.0	37.0	AF
18	44.0	9.0	19.0	3.0	5.0	12.0	6.0	9.0	12.0	6.0	57.0	AF
19	44.0	20.0	14.0	4.0	4.0	11.0	6.0	11.0	6.0	4.0	36.0	26.0
20	40.0	22.0	8.0	6.0	6.0	11.0	5.0	13.0	4.0	5.0	36.0	26.0
21	19.0 Y	10.0	16.0	8.0	7.0	9.0	6.0	11.0	5.0	5.0	34.0	26.0
22	49.0	7.0	16.0	5.0	8.0	10.0	9.0	9.0	8.0	14.0	19.0	23.0
23	42.0	15.0	6.0	9.0	7.0	11.0	10.0	6.0	9.0	25.0	25.0	44.0
24	AF	8.0	8.0	9.0	5.0	9.0	4.0	4.0	10.0	36.0 Y	38.0	34.0
25	AF	7.0	7.0	12.0	11.0	7.0	10.0	6.0	13.0	25.0	52.0	AF
26	AF	3.0	6.0	13.0	12.0	4.0	12.0	AF	12.0	7.0	52.0	AF
27	43.0	7.0	6.0	14.0	11.0	AF	14.0	AQ	11.0	9.0	49.0	AF
28	AF	15.0	13.0	12.0	4.0	10.0	20.0	AQ	AF	25.0	34.0	AF
29	35.0	23.0	9.0	8.0	5.0	AF	13.0	10.0	10.0	21.0	16.0	AF
30	29.0	6.0	6.0	9.0	8.0	8.0	10.0	11.0	7.0	36.0	41.0	AF
31	21.0	8.0	8.0	10.0	10.0	AF	AF	12.0	7.0	41.0	41.0	AF
NO.: 26	28	30	28	28	30	28	30	25	29	31	29	17
MAX: 49.0	39.0	28.0	18.0	18.0	14.0	14.0	27.0	17.0	16.0	41.0	57.0	71.0
MEAN: 29.88	18.96	15.37	9.11	7.53	8.50	8.50	10.27	9.56	10.45	15.55	39.59	32.88
ANNUAL OBSERVATIONS: 331	ANNUAL MEAN: 16.17	ANNUAL MAX: 71.0	2 Values marked with 'P' exceed the PRIMARY STANDARD of: 65									
2 Values marked with 'S' exceed the SECONDARY STANDARD of: 65												

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007
 CAS NUMBER: 36-701389
 LATITUDE: -119.772222
 LONGITUDE: 11
 UTM ZONE: 4074004
 UTM NORTHING: 252601
 UTM EASTING: 0
 ELEVATION-MSL: 0
 PROBE HEIGHT: 9.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-0008 FOC-1
 COUNTY: (019) Fresno
 CITY: (27000) Fresno
 SITE ADDRESS: 3425 N FIRST ST, FRESNO
 SITE COMMENTS: RELOCATED ABOUT 1-2/3 MI. NNW OF FRESNO-OLIVE AVENUE SITE. AQB SITE NAME (#) IS FI
 MONITOR COMMENTS: PRIMARY PM2.5 R&P SEQUENTIAL SAMPLER
 SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER W/W
 REPORTING ORG: (0145) California Air Resources Board

STATE: (06) California
 AQCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA
 LAND USE: RESIDENTIAL
 LOCATION SETTINGS: SUBURBAN

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (µC)
 MIN DETECTABLE: 2

REPORT FOR: 2005

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1	AF 36.0	12.0	9.0	5.0	9.0	13.0	8.0	14.0	11.0	26.0	AN			
2	AF 51.0	8.0	AF	6.0	7.0	13.0	7.0	14.0	4.0	12.0	5.0			
3	AF 36.0	15.0	AF	7.0	AF	11.0	AG	13.0	4.0	6.0	11.0			
4	14.0	25.0	AF	3.0	7.0	10.0	AF	7.0	5.0	6.0	54.0			
5	AF 39.0	19.0	8.0	4.0	4.0	7.0	12.0	8.0	10.0	10.0	P 66.0			
6	20.0	40.0	17.0	8.0	4.0	AQ	9.0	11.0	10.0	12.0	28.0	P 67.0		
7	5.0	11.0	AF	4.0	4.0	AQ	6.0	9.0	11.0	13.0	11.0	P 75.0		
8	3.0	35.0	18.0	6.0	6.0	AF	6.0	8.0	8.0	9.0	21.0	P 76.0		
9	2.0	27.0	27.0	12.0	4.0	AQ	5.0	10.0	7.0	11.0	14.0	P 66.0		
10	8.0	28.0	46.0	8.0	AF	5.0	4.0	13.0	7.0	12.0	16.0	P 74.0		
11	AF 43.0	53.0	9.0	6.0	5.0	6.0	6.0	7.0	7.0	12.0	30.0	P 86.0		
12	25.0	23.0	29.0	6.0	7.0	8.0	AH	14.0	8.0	15.0	21.0	P 86.0		
13	30.0	23.0	23.0	4.0	AF	7.0	18.0	12.0	9.0	18.0	39.0	52.0		
14	36.0	18.0	15.0	4.0	AF	7.0	17.0	10.0	11.0	15.0	52.0	P 77.0		
15	44.0	27.0	15.0	9.0	5.0	AQ	17.0	13.0	12.0	6.0	56.0	62.0		
16	39.0	7.0	21.0	14.0	6.0	AQ	17.0	15.0	8.0	10.0	41.0	48.0		
17	27.0	11.0	22.0	6.0	4.0	AQ	14.0	15.0	6.0	18.0	48.0	57.0		
18	34.0	9.0	16.0	5.0	8.0	6.0	12.0	13.0	8.0	12.0	45.0	5.0		
19	31.0	3.0	7.0	4.0	AF	7.0	10.0	7.0	14.0	9.0	53.0	11.0		
20	18.0	2.0	4.0	4.0	6.0	8.0	12.0	10.0	15.0	14.0	57.0	14.0		
21	27.0	4.0	5.0	8.0	7.0	7.0	12.0	8.0	17.0	21.0	51.0	26.0		
22	26.0	AF	4.0	10.0	7.0	9.0	11.0	11.0	19.0	32.0	56.0	17.0		
23	24.0	12.0	4.0	6.0	9.0	11.0	11.0	14.0	10.0	29.0	54.0	12.0		
24	23.0	19.0	6.0	5.0	11.0	8.0	12.0	13.0	9.0	19.0	P 71.0	28.0		
25	35.0	20.0	6.0	6.0	11.0	8.0	10.0	11.0	12.0	12.0	P 65.0	27.0		
26	23.0	25.0	14.0	8.0	13.0	7.0	12.0	14.0	9.0	7.0	5.0	15.0		
27	14.0	21.0	7.0	6.0	10.0	9.0	14.0	14.0	11.0	5.0	30.0	21.0		
28	7.0	AF	3.0	4.0	6.0	5.0	10.0	13.0	16.0	16.0	21.0	14.0		
29	14.0	6.0	AF	8.0	6.0	11.0	11.0	8.0	16.0	14.0	16.0	17.0		
30	31.0	7.0	AJ	7.0	8.0	13.0	10.0	9.0	18.0	14.0	28.0	27.0		
31	24.0	15.0			12.0		10.0	13.0	19.0	19.0	17.0			
NO.:	26	26	28	28	28	21	30	29	30	31	30	30		
MAX:	44.0	51.0	53.0	14.0	13.0	13.0	31.0	15.0	19.0	32.9	71.0	86.0		
MEAN:	22.46	22.88	15.61	6.82	6.96	7.86	11.97	11.17	11.10	13.16	33.10	40.20		
ANNUAL OBSERVATIONS:	337	ANNUAL MEAN:	17.18	ANNUAL MAX:	86.0	11 Values marked with 'P' exceed the PRIMARY STANDARD of: 65							11 Values marked with 'S' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007
 CAS NUMBER: 36.781389
 LATITUDE: -119.772222
 LONGITUDE: 11
 UTM ZONE: 4074004
 UTM NORTHING: 252601
 UTM EASTING: 0
 ELEVATION-MSL: 0
 PROBE HEIGHT: 9.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

STATE: (06) California
 ACCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA
 LAND USE: RESIDENTIAL
 SUBURBAN

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-0008 POC: 1
 COUNTY: (019) Fresno
 CITY: (27000) Fresno
 SITE ADDRESS: 3425 N FIRST ST, FRESNO
 SITE COMMENTS: RELOCATED ABOUT 1-2/3 MI. NNW OF FRESNO-OLIVE AVENUE SITE. AER SITE NAME (#) IS FI LOCATION SETTING:
 MONITOR COMMENTS: PRIMARY PM2.5 R&P SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: MULTIPLE METHODS
 REPORTING ORG: (0145) California Air Resources Board

REPORT FOR: 2006

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11.0	41.0	10.0	6.0	11.0	6.0	8.0	7.0	11.0	15.0	36.0	48.0
2	3.0	27.0	7.0	9.0	13.0	4.0	9.0	12.0	13.0	34.0	29.0	AF
3	17.0	22.0	7.0	3.0	14.0	5.0	10.0	17.0	15.0	29.0	8.0	AF
4	17.0	22.0	15.0	2.0	14.0	5.0	14.0	13.0	11.0	8.0	20.0	AF
5	30.0	26.0	11.0	3.0	15.0	6.0	10.0	9.0	15.0	11.0	34.0	AF
6	38.0	30.0	11.0	8.0	AG	8.0	7.0	3.0	16.0	15.0	31.0	AF
7	24.0	26.0	6.0	8.0	12.0	8.0	9.0	9.0	14.0	13.0	35.0	AF
8	19.0	38.0	9.0	4.0	12.0	7.0	14.0	9.0	15.0	17.0	26.0	AI
9	34.0	49.0	9.0	4.0	12.0	10.0	14.0	12.0	9.0	14.0	5.0	
10	35.0	56.0	5.0	4.0	17.0	10.0	12.0	13.0	7.0	13.0	23.0	
11	32.0	51.0	9.0	4.0	15.0	9.0	AN	8.0	14.0	13.0	23.0	
12	46.0	56.0	12.0	5.0	14.0	8.0	8.0	9.0	21.0	17.0	22.0	
13	36.0	P 71.0	15.0	6.0	12.0	5.0	16.0	10.0	22.0	12.0	29.0	
14	15.0	34.0	AN	8.0	14.0	6.0	18.0	11.0	12.0	16.0	9.0	
15	8.0	8.0	14.0	4.0	16.0	6.0	14.0	9.0	9.0	12.0	27.0	
16	32.0	18.0	12.0	3.0	13.0	12.0	14.0	8.0	8.0	16.0	24.0	
17	35.0	22.0	12.0	3.0	15.0	AN	AG	9.0	9.0	6.0	39.0	
18	22.0	11.0	11.0	5.0	18.0	AN	AN	8.0	14.0	6.0	42.0	
19	15.0	12.0	16.0	7.0	10.0	AN	AN	11.0	14.0	7.0	25.0	
20	28.0	13.0	10.0	10.0	7.0	13.0	13.0	12.0	AN	11.0	31.0	
21	37.0	26.0	8.0	4.0	7.0	13.0	16.0	13.0	13.0	13.0	29.0	
22	36.0	30.0	10.0	7.0	4.0	15.0	17.0	14.0	16.0	14.0	46.0	
23	43.0	32.0	11.0	6.0	7.0	17.0	17.0	14.0	13.0	15.0	49.0	
24	45.0	38.0	14.0	8.0	7.0	17.0	13.0	12.0	16.0	16.0	12.0	
25	37.0	28.0	12.0	11.0	9.0	15.0	14.0	9.0	10.0	17.0	18.0	
26	22.0	17.0	9.0	14.0	5.0	17.0	16.0	10.0	11.0	12.0	36.0	
27	11.0	7.0	12.0	12.0	4.0	13.0	12.0	11.0	16.0	16.0	39.0	
28	33.0	3.0	3.0	15.0	5.0	9.0	11.0	11.0	18.0	15.0	16.0	
29	29.0	3.0	5.0	13.0	5.0	9.0	11.0	12.0	21.0	17.0	8.0	
30	24.0	7.0	7.0	12.0	7.0	7.0	6.0	11.0	24.0	18.0	30.0	
31	17.0	5.0	5.0	12.0	9.0	7.0	5.0	12.0	21.0	24.0	AN	
NO.:	31	28	30	30	30	27	27	31	29	31	29	24
MAX:	46.0	71.0	16.0	15.0	18.0	17.0	18.0	17.0	24.0	34.0	49.0	58.0
MEAN:	26.81	29.07	9.90	7.07	10.67	9.63	11.89	10.90	14.45	15.30	26.79	31.17
ANNUAL OBSERVATIONS:	347	ANNUAL MEAN:	16.72	ANNUAL MAX:	71.0	1 Values marked with 'p' exceed the PRIMARY STANDARD of: 65						
Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.												

Mar. 21, 2007
 CAS NUMBER: 36.781389
 LATITUDE: -119.772222
 LONGITUDE: 11
 UTM ZONE: 4074004
 UTM NORTHING: 252601
 UTM EASTING: 0
 ELEVATION-MSL: 9.2
 PROBE HEIGHT: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT
 STATE: (06) California
 ACR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN
 REPORT FOR: 2004

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-0008 POC: 2
 COUNTY: (019) Fresno
 CITY: (27000) Fresno
 SITE ADDRESS: 3425 N FIRST ST, FRESNO
 SITE COMMENTS: RELOCATED ABOUT 1-2/3 MI. N.W. OF FRESNO-OLIVE AVENUE SITE. AER SITE NAME (#) IS FI
 MONITOR COMMENTS: COLLOCATED PM2.5 RFP SEQUENTIAL SAMPLER
 SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/W
 REPORTING ORG: (0145) California Air Resources Board

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1								8.0				
2						AF	11.0	9.0				
3		12.0		10.0	15.0	8.0						
4	26.0		AF									
5			27.0						11.0	15.0	20.0	31.0
6										17.0	44.0	
7								12.0				
8						5.0	10.0					
9		AF		18.0	5.0							
10	AF		27.0									30.0
11		40.0										
12								12.0	6.0	11.0		
13	30.0											
14						AG	9.0					
15					6.0	AF						
16		27.0	AF									
17												
18			14.0		4.0					6.0	36.0	
19								13.0				
20						9.0	6.0					
21		10.0		8.0	8.0							
22	49.0		15.0									
23												
24						6.0			14.0	25.0		
25								5.0				
26						4.0	12.0					
27		AF		14.0	11.0							
28	24.0	17.0	13.0									
29	34.0											
30												
31								13.0	7.0	36.0		
NO.:	6	5	5	5	5	5	5	7	5	6	5	16
MAX:	49.0	40.0	27.0	18.0	15.0	9.0	12.0	13.0	14.0	36.0	44.0	55.0
MEAN:	32.67	21.20	19.20	11.20	8.60	6.40	9.60	10.29	8.80	18.17	31.80	23.81
ANNUAL OBSERVATIONS:	75											
ANNUAL MEAN:					17.89	ANNUAL MAX:						
ANNUAL MAX:						55.0						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

CAS NUMBER:
LATITUDE: 36.781389
LONGITUDE: -119.772222
UTM ZONE: 11
UTM NORTHING: 4074004
UTM EASTING: 252601
ELEVATION-MSL: 0
PROBE HEIGHT: 9.2

STATE: (06) California
ACQR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (2840) FRESNO, CA
LAND USE: RESIDENTIAL
SUBURBAN

(88101) PM2.5 - Local Conditions
SITE ID: 06-019-0008 POC: 2
COUNTY: (019) Fresno
CITY: (27000) Fresno
SITE ADDRESS: 3425 N FIRST ST, FRESNO
SITE COMMENTS: RELOCATED ABOUT 1-2/3 MI. NNW OF FRESNO-OLIVE AVENUE SITE. AFB SITE NAME (#) IS FI LOCATION SETTING:
MONITOR COMMENTS: COLLOCATED PM2.5 R&P SEQUENTIAL SAMPLER

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (µC)
MIN DETECTABLE: 2

REPORT FOR: 2005

SUPPORT AGENCY: (0145) California Air Resources Board
MONITOR TYPE: SAMS
COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2040 PM2.5 SAMPLER w/W
REPORTING ORG: (0145) California Air Resources Board

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	7.0											
2	6.0											
3	12.0	36.0				10.0	11.0	8.0		13.0		11.0
4	13.0			AQ	7.0							
5	13.0		18.0									
6						AQ						
7												
8												
9	7.0	27.0				AQ	5.0	10.0		8.0		12.0
10					8.0	AQ						
11			52.0		4.0							
12												
13				4.0								
14										9.0		AF
15												
16	39.0	27.0			13.0	AQ	18.0	11.0				
17			22.0									
18												
19												
20												
21		4.0										
22	25.0	6.0			7.0		7.0	13.0				
23												
24												
25												
26												
27		21.0										
28	AF											
29	14.0				7.0							
30			6.0									
31												
NO.:	9	6	5	5	5	3	5	5	5	6	5	5
MAX:	39.0	36.0	52.0	13.0	7.0	10.0	18.0	13.0	15.0	18.0	74.0	85.0
MEAN:	15.11	20.17	20.40	8.00	6.20	9.00	11.60	10.40	11.00	12.50	40.20	42.40
ANNUAL OBSERVATIONS:	64	64	ANNUAL MEAN:	17.30	ANNUAL MAX:	85.0						

3 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
3 Values marked with 'S' exceed the SECONDARY STANDARD of: 65
Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-0008 POC: 2
 COUNTY: (019) Fresno
 CITY: (27000) Fresno
 STATE: (06) California
 AOCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA
 SITE ADDRESS: 3425 N FIRST ST, FRESNO
 SITE COMMENTS: RELOCATED ABOUT 1-2/3 MI. NNW OF FRESNO-OLIVE AVENUE SITE. ARE SITE NAME (#) IS FI LAND USE: RESIDENTIAL SUBURBAN
 MONITOR COMMENTS: COLLOCATED PM2.5 R&P SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/w
 REPORTING ORG: (0145) California Air Resources Board

CAS NUMBER:
 LATITUDE: 36.781389
 LONGITUDE: -119.772222
 UTM ZONE: 11
 UTM NORTHING: 4074004
 UTM EASTING: 252601
 ELEVATION-MSL: 0
 PROBE HEIGHT: 9.2

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (µC)
 MIN DETECTABLE: 2

DAY	MONTH												NO.:	MAX:	MEAN:	ANNUAL OBSERVATIONS:	ANNUAL MEAN:	ANNUAL MAX:
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER						
1																		
2																		
3																		
4																		
5	29.0	22.0	10.0	3.0	16.0	5.0	13.0	16.0	15.0	35.0	36.0	47.0						
6																		
7																		
8																		
9																		
10	32.0	55.0	12.0	4.0	16.0	10.0	11.0	12.0	13.0	17.0	28.0	28.0						
11																		
12																		
13																		
14																		
15																		
16																		
17	34.0	15.0	11.0	3.0	15.0	12.0	14.0	9.0	13.0	17.0	28.0	28.0						
18																		
19																		
20																		
21																		
22																		
23	43.0	30.0	14.0	6.0	7.0	15.0	16.0	12.0	13.0	17.0	28.0	28.0						
24																		
25																		
26																		
27																		
28																		
29	28.0	3.0	7.0	13.0	5.0	9.0	10.0	11.0	16.0	15.0	35.0	35.0						
30																		
31																		
NO.:	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
MAX:	43.0	55.0	14.0	13.0	16.0	15.0	16.0	16.0	16.0	16.0	35.0	35.0	47.0	47.0	47.0	47.0	47.0	47.0
MEAN:	33.20	25.80	10.80	5.80	11.80	10.20	12.80	12.00	14.60	14.60	33.17	33.17	33.17	33.17	33.17	33.17	33.17	33.17
ANNUAL OBSERVATIONS:	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
ANNUAL MEAN:	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03	20.03
ANNUAL MAX:	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

CIS NUMBER:
LATITUDE: 36.819167
LONGITUDE: -119.716389
UTM ZONE: 11
UTM NORTHING: 4078053
UTM EASTING: 257704
ELEVATION-MSL: 0
PROBE HEIGHT: 5.3

STATE: (06) California
AQCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (2840) FRESNO, CA
LAND USE: RESIDENTIAL
LOCATION SETTING: URBAN AND CENTER CITY

(88101) PM2.5 - Local Conditions
SITE ID: 06-019-5001 POC: 1
COUNTY: (019) Fresno
CITY: (14218) Clovis
SITE ADDRESS: 908 N VILLA AVE, CLOVIS
SITE COMMENTS: LOCATED IN CLOVIS MAINTENANCE YARD. ARB SITE NAME (#) IS CLOVIS-908 N VILLA AVE.
MONITOR COMMENTS: ANDERSON SEQUENTIAL

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
MONITOR TYPE: SIAMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

REPORT FOR: 2004

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	11.6		17.2			8.0	11.8	8.1			26.4 X	62.5 X
2										16.2		
3	29.8	7.5	28.6	AF	12.8						21.8 X	32.5
4									9.9	16.2		
5		23.6	18.5	8.3				10.7			42.4	14.6
6	27.7					4.0	9.7			3.5		
7		25.7	27.0	17.7	5.1						22.2	26.5
8	24.4							12.9	6.1	9.4		
9		23.8	AQ								35.2 X	14.5
10	29.3			5.8	6.4	7.6	10.0			16.0 e		
11		25.0	28.0								41.8	26.6
12	35.4							12.2 X	5.0 X	4.4		
13		8.7	8.6								40.9 X	28.8
14	41.9					9.2	5.8					
15		12.3	17.8	7.7	8.3				11.1	27.2	30.1	32.9 X
16	35.8										56.0	29.2
17		8.7						5.4		8.0 X		
18	52.4	5.5	AQ	13.2	11.5	4.4	12.2				28.5 X	6.1
19			11.3						7.7	28.1		
20	16.5											
21		21.4	10.2					12.5				
22	NO.:	11	9	5	5	5	5	6	5	10	10	10
23	MAX:	52.4	25.7	28.6	17.7	12.8	12.2	12.9	11.1	28.1	56.0	62.5
24	MEAN:	29.65	15.64	18.58	10.54	8.82	9.90	10.30	7.96	14.43	34.53	27.42
25	ANNUAL OBSERVATIONS:	90	ANNUAL MEAN:	18.66	ANNUAL MAX:	52.5						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Mar. 21, 2007

CAS NUMBER:
 LATITUDE: 36.819167
 LONGITUDE: -119.716389
 UTM ZONE: 11
 UTM NORTHING: 4078053
 UTM EASTING: 257704
 ELEVATION-MSL: 0
 PROBE HEIGHT: 5.3

STATE: (06) California
 AOCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: URBAN AND CENTER CITY

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (1C)
 MIN DETECTABLE: 2

REPORT FOR: 2006

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-5001 POC: 1
 COUNTY: (019) Fresno
 CITY: (14218) Clovis
 SITE ADDRESS: 908 N VILIA AVE, CLOVIS
 SITE COMMENTS: LOCATED IN CLOVIS MAINTENANCE YARD. ABB SITE NAME (#) IS CLOVIS-908 N VILIA AVE.
 MONITOR COMMENTS: ANDERSON SEQUENTIAL

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSON RAAS2.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1118) Ventura County APCD

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1		33.3									30.9	33.0
2	2.9		5.9					16.2	14.3	34.9		
3		18.2									20.1	40.5
4	20.3		9.4	4.6	13.9	5.1	13.1			10.0		
5		19.9									AQ	60.5
6	17.6		10.0					14.8	14.6	15.0		
7		41.8				9.6	12.6				20.0 X	AV
8	28.7		10.5	3.0	14.8					11.8		
9		P 65.8									26.1	18.8
10	13.3		8.7				14.7	9.6	13.3 X	15.0		
11	27.9		10.2	3.1	16.1	12.7				5.4 X	28.7	10.8
12		8.3									28.6	31.6
13	23.4		6.1				AH	13.7	12.0	12.4		
14	37.2		8.7	6.6	7.2	17.0				13.9	39.6	46.8
15		23.0									31.5 X	22.0
16	22.6		10.4					9.4	12.3	14.2 X		
17		2.8		13.2	5.0	10.2	11.3			20.7 X	6.4	13.2
18	21.8		6.2									51.3
19		10	10	5	5	5	4	5	5	10	9	10
20	37.2	65.8	10.5	13.2	16.1	17.0	14.7	16.2	14.6	34.9	39.6	60.5
21	21.57	24.95	8.61	6.10	11.40	13.92	12.93	12.74	13.30	15.53	25.77	33.65
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

NO.: 10
 MAX: 37.2
 MEAN: 21.57
 ANNUAL OBSERVATIONS: 88
 ANNUAL MEAN: 18.17
 ANNUAL MAX: 65.8

1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
 1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

CAS NUMBER:
LATITUDE: 36.727083
LONGITUDE: -119.732056
UTM ZONE: 11
UTM NORTHING: 4067860
UTM EASTING: 256023
ELEVATION-MSL: 0
PROBE HEIGHT: 11.5

STATE: (06) California
AOCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (2840) FRESNO, CA
LAND USE: RESIDENTIAL
LOCATION SETTING: URBAN AND CENTER CITY

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

(88101) PM2.5 - Local Conditions

SITE ID: 06-019-5025 POC: 1
COUNTY: (019) Fresno
CITY: (27000) Fresno
SITE ADDRESS: HAMILTON & WINERY, FRESNO, CA
SITE COMMENTS:
MONITOR COMMENTS:

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
MONITOR TYPE: SLAMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
REPORTING ORG: (1118) Ventura County APCD

REPORT FOR: 2004

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1	15.2		19.2					7.9			30.3	P 66.1		
2						8.5	11.7			16.4				
3		10.1	26.1	10.5	13.8						18.8	28.7		
4	26.7								10.7	17.7				
5		28.5	24.0			4.0	9.7	11.5		4.5	40.7	12.6		
6	28.7				5.6						21.2	30.5		
7		32.1	33.0	18.7					5.6	11.2	32.9	14.0		
8		25.2	AQ			7.3	9.2	11.7		24.9 e	35.3	26.0		
9	32.0				6.6						33.2	29.7		
10		25.2						12.4	5.0	5.0	35.0	35.9		
11		34.0								14.3				
12											52.1	32.4		
13											37.8	4.7		
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
NO.:	11	9	9	5	5	5	5	6	5	10	10	10		
MAX:	49.4	32.1	33.0	18.7	13.8	8.6	11.7	12.4	12.9	33.2	52.1	66.1		
MEAN:	31.04	17.87	19.87	11.36	8.78	6.44	9.42	10.15	8.34	16.54	33.73	28.06		
ANNUAL OBSERVATIONS:	90	ANNUAL MEAN:	19.41	ANNUAL MAX:	56.1	1 Values marked with 'p' exceed the PRIMARY STANDARD of: 65							1 Values marked with 's' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

(88101) PM2.5 - Local Conditions
SITE ID: 06-019-5025 FOC: 1
COUNTY: (019) Fresno
CITY: (27000) Fresno
SITE ADDRESS: HAMILTON & MINERY, FRESNO, CA
SITE COMMENTS:
MONITOR COMMENTS:

CAS NUMBER:
LATITUDE: 36.727083
LONGITUDE: -119.732056
UTM ZONE: 11
UTM NORTHING: 4067860
UTM EASTING: 256023
ELEVATION-MSL: 0
ROBE HEIGHT: 11.5

STATE: (06) California
AQCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (2840) FRESNO, CA
LAND USE: RESIDENTIAL
LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
MONITOR TYPE: SLAMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

REPORT FOR: 2005

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	7.5								12.6	12.1		
2			8.3									
3		36.0						AH			5.7	9.1
4	15.7			5.9	8.2	9.7	10.8			4.2		
5			19.9								28.0	57.0
6		41.3							9.5	12.0		
7	7.5											
8			18.2					10.1			13.3	61.0
9	9.7	30.1		9.5	4.0	AF	5.1			10.8		
10			45.7								19.0	P 79.0
11		23.7							8.1	19.9		
12											49.0	P 71.2
13	30.5		16.0			13.0		10.4				
14						5.5	17.3			10.2		
15		25.1		15.3	5.7						44.1	5.3
16	47.0											
17			25.0						14.1	9.5		
18		7.9						9.8			43.9	20.4
19	28.7		4.0			7.2	AH				P 74.1	26.8
20					7.6							
21		3.5		12.4					10.0	14.4		
22	24.6										24.0	17.7
23			4.6									
24		13.9								14.3		
25	33.9										29.7	24.7
26			14.5					12.3				
27		21.2		5.5	6.3	7.5	16.0					
28	6.3		6.4							2.2		
29												
30												
31	25.5											
NO.:	11	9	10	5	5	5	4	4	5	11	10	10
MAX:	47.0	41.3	45.7	15.3	8.2	13.0	17.3	12.3	14.1	33.9	74.1	79.0
MEAN:	21.54	23.08	16.26	9.72	6.36	8.78	12.30	10.65	10.86	14.77	33.08	37.22
ANNUAL OBSERVATIONS:	89	ANNUAL MEAN:	19.59	ANNUAL MAX:	79.0	3 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						
						3 Values marked with 'S' exceed the SECONDARY STANDARD of: 65						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-019-5025 FOC: 1
 COUNTY: (019) Fresno
 CITY: (27000) Fresno
 SITE ADDRESS: HAMILTON & WINERY, FRESNO, CA
 SITE COMMENTS:
 MONITOR COMMENTS:

CAS NUMBER: 36.727083
 LATITUDE: -119.752056
 LONGITUDE: 11
 UTM ZONE: 4067860
 UTM NORTHING: 256023
 UTM EASTING: 0
 ELEVATION-MSL: 11.5
 PROBE HEIGHT: 11.5

STATE: (06) California
 ACRR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (2840) FRESNO, CA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

REPORT FOR: 2006

DAY	MONTH												NOVEMBER	DECEMBER
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1		36.7											31.8	42.6
2	2.1													
3		20.8	5.0					16.1	13.8	37.5			18.7	55.0
4	26.1			2.7	15.5					12.0				
5		27.3	10.6										33.0	P 87.0
6	16.0								16.1	19.8			20.0	9.4
7		52.7	9.0					12.2						
8	30.1			6.8	17.0			AG		12.4			30.5	19.6
9		P 65.0	7.6											
10	12.6		9.7					8.9	12.0	16.0			35.9	9.6
11	30.9	16.4		3.7	18.3			14.1		6.0			30.3	36.7
12		11.4	9.6											
13	29.0									13.3			40.6	21.6
14	35.5	26.2	6.2	6.5	7.5			15.1	12.6	15.9			21.5	46.2
15		14.5												
16	19.7	28.2											6.7	13.6
17	24.7	2.7	11.2						10.6	16.0				
18				15.0	3.5			AG		20.2				
19	10	10	10										33.5	
20	35.5	65.0	14.5	15.0	18.3	14.4		16.9	16.1	37.5	10		87.0	11
21	22.67	28.74	8.97	6.94	12.36	10.14		15.37	12.08	16.91	4		26.91	35.89
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
NO.:	10	10	10	5	5	5		3	5	4	10	10		
MAX:	35.5	65.0	14.5	15.0	18.3	14.4		16.9	16.1	37.5	40.6	87.0		
MEAN:	22.67	28.74	8.97	6.94	12.36	10.14		15.37	12.08	16.91	26.91	35.89		
ANNUAL OBSERVATIONS:	88													
ANNUAL MEAN:				19.86										
ANNUAL MAX:				87.0										

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

2 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
 2 Values marked with 'S' exceed the SECONDARY STANDARD of: 65

Mar. 21, 2007

CAS NUMBER: 35.385556
 LATITUDE: -119.014722
 LONGITUDE: 11
 UTM ZONE: 3917435
 UTM NORTHING: 317002
 UTM EASTING: 0
 ELEVATION-MSL: 5.7
 PROBE HEIGHT: 5.7

STATE: (06) California
 AQR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0680) BAKERSFIELD, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

REPORT FOR: 2004

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

(88101) PM2.5 - Local Conditions
 SITE ID: 06-029-0010 POC:1
 COUNTY: (029) Kern
 CITY: (03526) Bakersfield
 SITE ADDRESS: 1128 GOLDEN STATE HIGHWAY, BAKERSFIELD
 SITE COMMENTS: INSTRUMENTS HOUSED IN OFFICE TYPE TRAILER
 MONITOR COMMENTS: ANDERSON SEQUENTIAL

SUPPORT AGENCY: (0944) San Joaquin County APCD
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RMA32.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1119) Ventura County APCD

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1	37.2		14.2			12.1	14.7	8.3		22.8	28.9	AF		
2														
3		5.2	13.7	12.4	16.2							P 65.6		
4	26.5													
5									9.9	20.9				
6		25.1	39.1					14.7						
7	38.7					4.6	7.8							
8				AQ	9.6									
9	35.1		AQ											
10														
11									8.8	14.2				
12		9.9	AQ											
13	27.6													
14														
15		21.7	25.8	9.2	10.1	11.3	12.2	9.8		19.5 e				
16	30.0													
17														
18	42.7	5.0							6.4	7.6				
19			17.5					5.4						
20		17.7	21.7	8.0	5.8	10.9	10.0							
21	36.6													
22														
23														
24		12.1 X	10.2											
25	50.9							7.4						
26									13.1	32.1				
27		AQ	24.5	15.9	12.7	7.3	11.5			14.1				
28	26.3													
29														
30									7.7	40.8				
31	15.3		19.6					13.6						
NO.:	11	8	9	4	5	5	5	6	5	10	10	10		
MAX:	50.9	25.1	39.1	15.9	16.2	12.1	14.7	14.7	13.1	40.8	53.9	66.6		
MEAN:	33.35	15.25	20.70	11.38	10.88	9.24	11.24	10.53	9.18	20.31	28.69	34.70		
ANNUAL OBSERVATIONS:	88	ANNUAL MEAN:	20.72	ANNUAL MAX:	66.6	1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65							1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

(88101) PM2.5 - Local Conditions
SITE ID: 06-029-0010 FOC:1
COUNTY: (029) Kern
CITY: (03526) Bakersfield
SITE ADDRESS: 1128 GOLDEN STATE HIGHWAY, BAKERSFIELD
SITE COMMENTS: INSTRUMENTS HOUSED IN OFFICE TYPE TRAILER
MONITOR COMMENTS: ANDERSON SEQUENTIAL

CAS NUMBER:
LATITUDE: 35.385586
LONGITUDE: -119.014722
UTM ZONE: 11
UTM NORTHING: 3917435
UTM EASTING: 317002
ELEVATION-MSL: 0
PROBE HEIGHT: 5.7

STATE: (06) California
ACCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (0680) BAKERSFIELD, CA
LAND USE: COMMERCIAL
LOCATION SETTING: URBAN AND CENTER CITY

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

REPORT FOR: 2005

SUPPORT AGENCY: (0944) San Joaquin County APCD
MONITOR TYPE: S1AMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RMAS2.5-300 PM2.5 SEQ W/W
REPORTING ORG: (1118) Ventura County APCD

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1	15.9									17.6			
2			14.4					11.1 J					
3		30.1				10.4 J	10.5 J			8.1	8.7	19.5	
4	14.8			7.1	11.9								
5			19.0								22.2	52.8	
6		54.4							AR	14.4			
7	7.7						7.7 J	10.6 J			14.5	P 83.6	
8		41.2	33.7		5.8	AF				18.3			
9	10.3												
10			50.8										
11													
12		49.7											
13	29.9					17.9 J		11.8	10.4	16.0	37.0	P 74.9	
14			21.1			9.9 J	19.6 J			9.2	41.0	AR	
15		23.7		23.5	AF								
16	36.9		21.0								41.4	15.9	
17		8.5			8.7								
18	26.4												
19			5.2					11.3	12.2	22.6			
20		2.4		18.5	13.9	12.9 J	14.9 J			55.7	P 67.1	22.5	
21	24.5												
22		20.0	4.4						10.1	9.3	P 77.9	20.7	
23													
24													
25	35.0		18.2					12.6					
26													
27		22.8		4.3	10.5	8.8 J	14.6 J			11.5	16.0	12.7	
28	8.2												
29			7.5								24.5	22.7	
30													
31	28.4									35.6			
NO.:	11	9	10	5	5	5	5	5	4	11	10	9	
MAX:	36.9	54.4	50.8	23.5	13.9	17.9	19.6	12.6	15.0	55.7	77.9	83.6	
MEAN:	21.64	28.09	19.53	12.12	10.16	11.98	13.46	11.48	11.93	19.85	35.03	36.14	
ANNUAL OBSERVATIONS:	89	ANNUAL MEAN:	21.61	ANNUAL MAX:	83.6	4 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						4 Values marked with 'S' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

CAS NUMBER: 35-385556
LATITUDE: -119.014722
LONGITUDE: 3917435
UTM ZONE: 11
UTM NORTHING: 317002
UTM EASTING: 0
ELEVATION-MSL: 5.7
PROBE HEIGHT: 5.7

STATE: (06) California
AQCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (0680) BAKERSFIELD, CA
LAND USE: COMMERCIAL
LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0944) San Joaquin County APCD
MONITOR TYPE: SJAMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
REPORTING ORG: (1118) Ventura County APCD

REPORT FOR: 2006
DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

(88101) PM2.5 - Local Conditions
SITE ID: 06-029-0010 POC: 1
COUNTY: (029) Kern
CITY: (03526) Bakersfield
SITE ADDRESS: 1128 GOLDEN STATE HIGHWAY, BAKERSFIELD
SITE COMMENTS: INSTRUMENTS HOUSED IN OFFICE TYPE TRAILER
MONITOR COMMENTS: ANDERSON SEQUENTIAL

MONTH

Day JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER

1 18.1
2 3.9
3 5.1
4 34.7
5 29.5
6 4.4
7 41.7
8 26.6
9 10.7
10 60.9
11 33.3
12 9.0
13 AF 5.7
14 5.5 58.7
15 12.6
16 25.9
17 5.0
18 6.1
19 26.1 6.2
20 21.2
21 35.8
22 AF 17.3
23 AF 19.1
24 AF 17.1
25 9.1
26 18.9
27 5.4
28
29
30
31

NO.: 10
MAX: 35.8
MEAN: 21.75
ANNUAL OBSERVATIONS: 90
ANNUAL MEAN: 20.60
ANNUAL MAX: 76.4

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	18.1								12.3	35.2 e	41.0	1.2
2	3.9							15.0				
3			5.1									
4	34.7			4.4	16.1	9.2	17.3			16.6	16.0	AF
5	29.5											
6	4.4		12.2						16.4 e	26.1	55.0	P 76.4 a
7	41.7											
8	26.6		10.7				15.4	17.0			13.2	AF
9		60.9		9.0	20.2	10.7				12.1		
10	33.3		5.7									
11		AF										
12		58.7										
13	5.5											
14		12.6	7.8 j					11.2	17.0	14.4		
15	25.9			5.0	21.5	11.9	17.4			8.4		
16			6.1									
17		6.2										
18	26.1											
19		21.2	5.8	4.2	9.3	16.7	13.5	15.0	11.3	20.8	64.4	23.0
20	35.8											
21		AF										
22	AF	17.3										
23		19.1										
24		17.1										
25		9.1										
26	18.9			17.9	8.6	12.1	10.0	14.0 e	14.0 e	12.6	21.0	P 75.2
27												
28												
29												
30												
31												
NO.:	10	10	10	10	5	5	5	4	5	10	10	11
MAX:	35.8	60.9	17.3	17.9	21.5	16.7	17.4	17.0	17.0	39.2	64.4	76.4
MEAN:	21.75	28.23	9.32	8.10	15.14	12.12	14.72	14.55	14.20	19.17	33.45	32.25
ANNUAL OBSERVATIONS:	90											
ANNUAL MEAN:					20.60							
ANNUAL MAX:					76.4							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

(88101) FM2.5 - Local Conditions
 SITE ID: 06-029-0014 FOC: 1
 COUNTY: (029) Kern
 CITY: (03526) Bakersfield
 SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSON SEQUENTIAL - MAIN SAMPLER

STATE: (06) California
 AOCR: (031) SAN JOAQUIN VALLEY
 UNRAZED AREA: (0680) BAKERSFIELD, CA
 LAND USE: MOBILE
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:
 LATITUDE: 35.356111
 LONGITUDE: -119.040278
 UTM ZONE: 11
 UTM NORTHING: 3914247
 UTM EASTING: 314614
 ELEVATION-MSL: 0
 PROBE HEIGHT: 7.3

Mar. 21, 2007

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (1C)
 MIN DETECTABLE: 2

REPORT FOR: 2004

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1	42.6	18.0	11.9	7.0	AF	12.1	11.2	BE	15.3 J	AN	26.4	42.2	
2	8.1	10.9	6.0	7.3	17.2	11.3	13.9	BE	13.3 J	AN	AN	P 65.3	
3	14.0	5.2 X	13.4	AQ	18.6	AG	15.8	BE	15.9 J	AN	21.1	P 70.0	
4	28.8	15.2	10.0	AN	AN	9.7	63.1	BE	AF	AN	7.8	P 63.3	
5	32.6	23.1	15.8	AN	9.4	9.5	15.5	BE	12.5 J	20.7 J	18.0	19.1	
6	47.8	23.8	25.5	17.7	8.6	9.1	11.0	BE	12.7 J	21.7 J	32.6	30.3	
7	AN	AF	34.2	13.4	11.3	5.2	10.4	BE	16.1 J	20.4 J	21.8	19.8	
8	AN	AF	34.6	18.0	10.5	5.2	10.4	BE	18.9 J	22.0 J	33.7	22.5	
9	10.2	AF	33.7	17.3	8.8	5.6	10.2	BE	16.2 J	9.7 J	29.5	17.3	
10	35.0	AF	32.2	13.6	9.0	7.9	12.1	BE	14.1 J	12.0 J	20.6	35.0	
11	35.7	20.3	20.0	8.2	8.5	10.6	14.8	BE	15.5 J	10.8 J	8.8	46.3	
12	30.2	10.3	AN	7.9	10.4	10.1	13.5	BE	10.7 J	14.7 J	25.2	27.2	
13	23.4	4.4	26.6	AN	13.0	12.5	10.6	BE	10.2 J	AN	24.2	22.1	
14	30.4	10.3	18.7	AN	15.6	AJ	20.3	BE	13.6 J	20.5 J	34.2	26.3	
15	AN	20.3	23.5	7.5	10.7	14.2	12.1	BE	19.3 J	19.7 J	39.6	33.5	
16	32.9	AN	24.8	AN	10.2	AN	11.3	BE	18.2 J	14.3 J	44.9	AF	
17	41.1	AN	AF	AN	8.8	AN	10.8	BE	11.8 J	AV	45.4	38.9	
18	41.3	AN	AF	AN	6.5	11.6	10.8	BE	7.3 J	AV	P 67.4	32.4	
19	40.3	AN	20.1	AN	AQ	12.6	8.9	BE	5.9 J	AV	53.0	28.2	
20	AN	AN	18.3	AN	8.4	10.4	9.9	BE	9.2 J	AV	30.0	29.1	
21	35.5	19.0	21.2	6.4	6.4	10.6	10.9	AN	10.8 J	AF	11.5	23.4	
22	36.1	14.7	AF	7.2	8.5	15.4	11.2	AN	10.7 J	AF	11.3	41.9	
23	36.7	15.6	7.9	8.5	AQ	11.3	10.7	AN	16.2 J	AF	19.9	59.3	
24	48.1	9.8	8.4	10.9	7.8	9.3	11.8	AN	7.1 J	AF	42.9	60.4	
25	51.0	5.9	9.4	13.8	11.1	8.8	11.4	BE	7.5 J	AV	50.5	61.5	
26	30.5	3.3	6.0	14.2	13.0	8.2	12.6	BE	7.4 J	AV	52.5	58.4	
27	25.9	4.4	AN	16.6	13.5	8.6	BE	11.3 J	18.9 J	11.0	30.1	12.7	
28	24.1	11.0	AN	15.5	5.9	13.9	BE	14.7 J	13.0 J	AV	11.2	4.4	
29	25.0	11.7	AN	10.3	6.6	12.2	BE	11.6 J	12.7 J	AV	18.2	7.5	
30	33.8	AN	AN	12.6	11.3	10.2	BE	AJ	10.7 J	37.0	30.7	5.0	
31	17.0	15.2	15.2	13.5	13.5	BE	16.3 J	16.3 J	42.5	42.5	5.7	5.7	
NO.:	27	20	23	21	27	26	26	8	29	14	29	30	
MAX:	51.0	23.8	34.6	18.0	18.6	15.4	63.1	16.3	20.7	42.5	67.4	70.0	
MEAN:	31.78	12.86	19.02	11.60	10.49	10.27	13.91	10.84	13.77	19.79	29.76	33.73	
ANNUAL OBSERVATIONS:	280	ANNUAL MEAN:	19.09	ANNUAL MAX:	70.0	4 Values marked with 's' exceed the PRIMARY STANDARD of: 65						4 Values marked with 's' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

CAS NUMBER:
LATITUDE: 35.356111
LONGITUDE: -119.040278
UTM ZONE: 11
UTM NORTHING: 3914247
UTM EASTING: 314614
ELEVATION-MSL: 0
PROBE HEIGHT: 7.3

STATE: (06) California
ACCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (0680) BAKERSFIELD, CA
LAND USE: MOBILE
LOCATION SETTING: URBAN AND CENTER CITY

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (1C)
MIN DETECTABLE: 2

(88101) PM2.5 - Local Conditions

SITE ID: 06-029-0014 POC: 1
COUNTY: (029) Kern
CITY: (03526) Bakersfield
SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD
SITE COMMENTS:
MONITOR COMMENTS: ANDERSON SEQUENTIAL - MAIN SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board

MONITOR TYPE: SIAMS
COLLECTION AND ANALYSIS METHOD: (118) R & P MODEL 2025 PM2.5 SEQUENTIAL
REPORTING ORG: (1118) Ventura County APCD

REPORT FOR: 2005

Day	MONTH													
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1	16.1	42.5	13.5	7.4	8.0	14.8	18.3	11.5	AN	17.0	39.5	AN		
2	12.2	39.4	14.3	15.7	7.1	9.8	12.0	11.2	AN	AN	22.9	7.9		
3	7.1	31.1	11.3	11.5	10.4	9.7	11.3	9.9	AN	AN	8.2	19.2		
4	15.9	38.8	8.0	6.6	10.1	11.9	AJ	16.8	AN	6.9	12.5	25.4		
5	14.7	46.0	14.7	12.8	5.9	9.0	31.0	16.8	AN	11.6	13.4	46.7		
6	28.0	50.5	16.2	12.2	4.3	6.4	13.1	14.7	AN	AN	20.0	54.1		
7	10.7	AI	23.4	6.1	7.7	7.3	13.0	11.5	AN	15.2	17.5	AN		
8	AN	AI	34.9	4.4	6.9	5.6	9.1	10.6	AN	9.2	18.6	AN		
9	AN	38.7	50.1	7.2	4.3	12.7	7.4	11.8	7.9	12.5	13.0	AQ		
10	AN	50.2	54.7	6.9	5.2	7.6	6.6	11.5	6.5	12.6	14.7	AQ		
11	AN	46.3	50.8	12.8	8.2	7.4	12.9	10.8	9.3	12.6	21.2	AQ		
12	14.9	47.3	20.5	12.9	11.1	10.2	19.8	11.6	9.2	13.5	31.1	AQ		
13	32.4	25.1	19.5	AR	14.5	21.5	16.9	12.5	10.8	18.1	34.8	AQ		
14	AN	15.7	19.9	AR	15.8	16.9	11.3	11.6	11.3	11.6	35.9	AQ		
15	AQ	24.2	9.2	AR	10.6	1.6	19.2	12.8	13.6	9.4	39.7	P 80.5		
16	AJ	AG	12.0	AR	7.7	10.0	17.0	14.4	11.9	8.8	28.9	P 80.1		
17	AN	27.0	19.9	AR	6.9	8.8	18.1	13.6	6.8	9.8	63.2	63.6		
18	AN	7.7	17.6	AR	8.0	9.0	18.1	12.4	7.3	6.6	41.9	14.6		
19	27.5	2.4	6.2	6.0	6.6	10.7	14.8	5.8	11.9	19.3	51.0	19.5		
20	AN	AN	6.6	7.2	9.9	17.5	17.3	11.4	AN	33.9	AN	18.1		
21	AN	AN	5.7	12.1	10.8	13.8	14.3	12.7	7.3	53.7	AN	24.3		
22	AN	AN	7.5	17.9	11.9	13.5	13.9	11.8	13.1	55.5	P 73.0	9.8		
23	AN	17.7	3.7	6.9	11.0	AJ	13.2	12.6	16.2	58.5	P 79.7	17.6		
24	AN	17.7	6.0	3.5	13.4	12.5	14.4	10.4	16.1	AF	P 85.7	23.6		
25	AN	33.5	16.1	15.0	15.7	10.0	12.5	12.7	8.1	9.0	62.5	AN		
26	27.1	24.2	10.4	8.7	12.8	9.9	13.0	14.4	13.5	19.0	13.5	AN		
27	13.1	24.2	10.4	8.7	12.8	9.3	14.7	16.8	12.0	14.3	15.6	AN		
28	9.8	10.7	4.2	4.0	9.5	7.8	11.0	13.2	AJ	9.8	21.0	AN		
29	12.2	7.3	9.0	13.2	7.2	16.6	12.7	12.5	AN	19.2	18.2	AN		
30	19.3	9.6	13.5	9.7	19.4	19.4	9.6	AN	AN	21.0	23.7	AN		
31	28.1	7.8	15.8	15.8	11.7	11.7	29.6	AN	AN	23.7	27.0	AN		
NO.:	16	21	31	25	31	27	29	28	18	27	28	19		
MAX:	32.4	50.5	54.7	17.9	15.8	19.4	31.0	16.8	16.2	58.5	85.7	80.5		
MEAN:	18.07	30.32	16.47	9.49	9.74	10.84	14.49	12.41	10.71	19.19	32.23	33.25		
ANNUAL OBSERVATIONS:	300	ANNUAL MEAN:	17.61	ANNUAL MAX:	85.7	5 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						5 Values marked with 'S' exceed the SECONDARY STANDARD of: 65		

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007
CAS NUMBER:
LATITUDE: 35.356111
LONGITUDE: -119.040278
UTM ZONE: 11
UTM NORTHING: 3914247
UTM EASTING: 314614
ELEVATION-MSL: 0
PROBE HEIGHT: 7.3

(88101) PM2.5 - Local Conditions
SITE ID: 06-029-0014 FOC: 1
COUNTY: (029) Kern
CITY: (03526) Bakersfield
SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD
SITE COMMENTS:
MONITOR COMMENTS: ANDERSON SEQUENTIAL - MAIN SAMPLER
SUPPORT AGENCY: (0145) California Air Resources Board
MONITOR TYPE: SLAMS
COLLECTION AND ANALYSIS METHOD: (118) R & P MODEL 2025 PM2.5 SEQUENTIAL
REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

REPORT FOR: 2006

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	21.6	15.6	AN	AN	17.4	13.6	11.7	AO	17.8	22.0 e	40.7	36.2
2	AN	17.2	5.6	AN	14.4	7.1	12.2	12.2	15.9	39.1 e	17.8	59.0
3		22.2	4.8	9.3	14.0	7.3	12.0	16.2	21.3	37.4	11.7	20.1
4	20.8	32.9	10.4	2.5	11.5	AN	21.8	17.5	15.9	12.2	AN	47.5
5	29.8	22.2	17.6	4.1	15.4	AN	11.4	9.9	20.5	13.5	AN	59.1
6	AN	23.0	15.2	AN	15.2	AN	10.6	8.9	22.9	16.3	AN	64.0
7	30.5	45.7	6.4	AN	15.0	11.5	10.9	10.8	27.1	21.5	AN	77.7
8	29.5	43.7	9.8	3.8	15.4	AN	17.2	12.0	26.7	19.2	AN	41.5
9	32.4	54.8	10.6	4.8	16.5	AN	17.7	17.7	21.5	12.4	AN	12.1
10	36.2	60.5	5.0	4.6	19.6	10.7	15.2	17.7	14.4	10.3	AN	15.3
11	35.1	P 63.5	6.3	6.7	23.7	10.0	9.3	10.7	20.6	11.1	19.7	7.9
12	42.7	P 63.9	8.0	5.7	18.2	9.5	17.9	9.4	24.1	12.2	22.7	25.5
13	32.0	62.5	10.2	7.7	14.5	7.6	17.9	9.2	25.0	9.0	19.5	28.2
14	AN	57.0	13.1	12.8	15.0	7.6	18.6	11.8	25.0	10.4	8.2	24.9
15	AN	11.1	9.9	3.9	18.0	8.8	21.5	12.0	11.6	18.4	25.6	33.2
16	AN	AN	16.1	2.6	17.9	13.0	17.8	13.0	12.7	14.1	42.5	8.7
17	27.1	AN	13.5	3.5	22.8	12.6	20.7	10.1	15.2	7.7	47.9	11.6
18	13.9	AM	6.5	9.0	AF	11.7	21.8	12.7	18.6	8.9	AN	25.7
19	13.5	5.8	6.2	11.5	13.0	11.4	20.9	11.8	16.9 e	AN	AN	23.6
20	25.0	AN	5.0	14.1	9.6	16.6	18.2	10.6	16.5 e	17.3	AN	24.2
21	33.0	AN	6.2	9.5	9.2	17.5	19.3	13.5	20.0 e	12.2	AN	37.2
22	AN	18.7	9.7	4.2	5.1	18.3	AO	20.5	39.3 e	10.1	AN	53.1
23	32.8	30.6	11.4	5.0	10.7	19.1	32.0	17.0	AN	13.8	30.0	31.5
24	31.8	38.9	16.7	10.4	11.5	23.7	19.6	14.2	AN	14.2	12.0	51.8
25	20.9	AM	14.5	21.2	12.0	20.1	19.7	11.7	AN	2.8	20.0	P 71.2
26	9.7	AN	8.4	6.2	8.6	21.0	17.2	10.1	AN	14.7	23.8	36.6
27	12.0	AN	13.0	11.2	6.7	19.0	12.5	15.8	AN	15.8	12.2	5.6
28	19.2	AN	5.9	14.2	7.5	12.6	11.0	22.6	AN	21.7	6.4	8.9
29	17.0	AN	4.0	16.5	9.8	11.2	15.9	15.5	AN	23.5	15.8	18.5
30	20.4	5.5	5.5	17.1	14.4	12.2	11.7	15.0	AN	25.1	24.2	37.6
31	17.2	4.7	4.7	15.3	15.3	9.5	9.5	15.6	AN	25.7	49.6	49.6
NO.:	24	19	30	26	30	25	29	30	24	30	20	31
MAX:	42.7	65.9	17.6	21.2	23.7	23.7	32.0	22.6	39.3	39.1	53.1	77.7
MEAN:	25.17	36.73	9.34	8.54	13.93	13.35	16.44	13.56	20.04	17.05	23.46	33.22
ANNUAL OBSERVATIONS:	318	ANNUAL MEAN:	18.65	ANNUAL MAX:	77.7	4 Values marked with 'p' exceed the PRIMARY STANDARD of: 65						
Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.												

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

(88101) PM2.5 - Local Conditions

SITE ID: 06-029-0014 FOC: 2
COUNTY: (029) Kern
CITY: (03526) Bakersfield
SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD
SITE COMMENTS:

STATE: (06) California
AQCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (0680) BAKERSFIELD, CA
LAND USE: MOBILE
LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:
LATITUDE: 35.356111
LONGITUDE: -119.040278
UTM ZONE: 11
UTM NORTHING: 3914247
UTM EASTING: 3146614
ELEVATION-MSL: 0
PROBE HEIGHT:

MONITOR COMMENTS: ANDERSEN SEQUENTIAL - COLLOCATED

SUPPORT AGENCY: (0145) California Air Resources Board
MONITOR TYPE: SLAMS
COLLECTION AND ANALYSIS METHOD: MULTIPLE METHODS
REPORTING ORG: (1118) Ventura County APCD

REPORT FOR: 2004

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1.												
2.												
3.		5.2		9.8	18.0	AQ	AN					
4.	AF		11.3								AF	19.3
5.									12.6 J	22.8 J	33.5	
6.								BE				
7.												
8.						6.1	AF					
9.	34.4	AF	AN	AF	8.9							
10.				13.9								
11.								BE		17.8 J	9.3	47.8
12.												
13.						10.5						
14.												
15.		19.8		7.4	10.3		12.4	15.7 J				
16.	31.8		22.9				17.9					
17.									7.6 J		47.0	38.7
18.												
19.							9.4	AF		4.9 J		
20.		19.3		9.2	6.8	AV		10.5 J				
21.	38.1		17.2									
22.											20.2	59.2
23.									16.5 J	AV		
24.						8.0	11.3	AF				
25.												
26.												
27.		4.2		17.1	13.3							
28.	24.8		22.3									
29.								16.1 J				
30.								13.2 J				
31.								13.7 J	11.7 J	40.2	19.0	AN
NO.:	4	4	4	5	5	3	4	4	4	4	5	4
MAX:	38.1	19.8	22.9	17.1	18.0	10.5	17.9	16.1	16.5	40.2	47.0	59.2
MEAN:	32.28	12.13	18.43	11.48	11.46	8.20	12.75	13.40	12.82	21.43	25.80	41.25
ANNUAL OBSERVATIONS:	51			ANNUAL MEAN:	18.41	ANNUAL MAX:	59.2					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

CAS NUMBER: 35.356111
 LATITUDE: -119.040278
 LONGITUDE: 11
 UTM ZONE: 3914247
 UTM NORTHING: 314614
 UTM EASTING: 0
 ELEVATION-MSL: 0
 PROBE HEIGHT:

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

STATE: (06) California
 AQCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0680) BAKERSFIELD, CA
 LAND USE: MOBILE
 LOCATION SETTING: URBAN AND CENTER CITY

REPORT FOR: 2005

(88101) PM2.5 - Local Conditions
 SITE ID: 06-029-0014 POC: 2
 COUNTY: (029) Kern
 CITY: (03526) Bakersfield
 SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSEN SEQUENTIAL - COLLOCATED

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (118) R & P MODEL 2025 PM2.5 SEQUENTIAL
 REPORTING ORG: (1118) Ventura County APCD

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1												
2												
3		AF				7.0	11.7	11.6	15.5	18.0		
4	16.1			8.7	10.3							
5			AF								22.0	AF
6												
7								10.2	10.1	16.3		
8	7.8	AN	50.7	7.0	5.2	AM	8.0					
9												
10		48.9	AF									
11												
12			21.6								33.3	AF
13												
14												
15		24.9		AF	7.0	10.3	18.0	11.0	AN	17.0		
16	43.4											
17			20.1									
18												
19												
20				5.5								
21							14.6	10.8		20.8		
22	23.6	AN			12.0							
23			3.7	AN								
24												
25												
26												
27		23.8				8.8	15.2	13.8		10.5	P 82.0	24.5
28	8.4			14.8	10.6							
29			6.9									
30												
31										33.1	26.0	24.7
NO.:	5	3	5	4	5	4	5	5	2	6	5	4
MAX:	43.4	48.9	50.7	14.8	12.0	12.5	18.0	13.8	15.5	33.1	82.0	24.7
MEAN:	19.86	32.53	20.60	9.00	9.02	9.65	13.50	11.48	12.80	19.28	42.10	20.75
ANNUAL OBSERVATIONS:	53	ANNUAL MEAN:	18.48	ANNUAL MAX:	82.0							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
 1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65

(88101) PM2.5 - Local Conditions
 SITE ID: 06-029-0014 FOC: 2
 COUNTY: (029) Kern
 CITY: (0326) Bakersfield
 SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSEN SEQUENTIAL - COLLOCATED

STATE: (06) California
 AOCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0680) BAKERSFIELD, CA
 LAND USE: MOBILE
 LOCATION SETTING: URBAN AND CENTER CITY

REPORT FOR: 2006

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (118) R & P MODEL 2025 PM2.5 SEQUENTIAL
 REPORTING ORG: (1118) Ventura County APCD

CAS NUMBER: 35.356111
 LATITUDE: -119.040278
 LONGITUDE: 11
 UTM ZONE: 11
 UTM NORTHING: 3914247
 UTM EASTING: 314614
 ELEVATION-MSL: 0
 PROBE HEIGHT:

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											41.5	37.2
2								17.3	17.9	42.6		
3		24.0				9.5	21.7					
4				4.2	14.8							
5	30.2		AF									
6												
7												
8									19.4	21.2	53.0	P 81.0
9		62.5	11.1			10.6	15.4	17.6				
10	36.0			6.8	21.6							
11												
12												
13												
14												
15												
16		12.0				12.3	AM	12.4	22.4	11.4	21.0	28.7
17	27.7			3.5	21.3							
18												
19												
20												
21								AG	22.2	18.1	AF	24.2
22		18.9	5.9			17.1	17.7					
23	33.2			4.6	10.6							
24			16.6									
25												
26												
27		5.1				12.1	11.8	15.2	25.9 e	13.9	AF	P 72.1
28												
29	16.4										6.1	
30			5.6	AG	8.3							
31												49.7
NO.:	5	5	5	4	5	5	4	4	5	5	5	6
MAX:	36.0	62.5	16.6	6.8	21.6	17.7	21.7	17.6	25.9	42.6	54.0	81.0
MEAN:	28.70	24.50	9.54	4.78	15.32	12.44	16.65	15.63	21.56	21.44	35.12	48.82
ANNUAL OBSERVATIONS:		58		ANNUAL MEAN:	22.14	ANNUAL MAX:	81.0					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

2 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
 2 Values marked with 'S' exceed the SECONDARY STANDARD of: 65

Mar. 21, 2007
 CAS NUMBER: 35.324722
 LATITUDE: -118.999167
 LONGITUDE: 11
 UTM ZONE: 3910689
 UTM NORTHING: 318280
 UTM EASTING: 0
 ELEVATION-MSL: 2
 PROBE HEIGHT: 2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

STATE: (06) California
 AQCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0690) BAKERSFIELD, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

(88101) PM2.5 - Local Conditions
 SITE ID: 06-029-0016 POC: 1
 COUNTY: (025) Kern
 CITY: (0326) Bakersfield
 SITE ADDRESS: 410 E. PLAMZ RD. BAKERSFIELD, CA 93307
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSEN SEQUENTIAL

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SIAMS

COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAMS2.5-300 PM2.5 SEQ W/W
 REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	44.0 J		12.0 J			10.4	14.5 J	7.4 J	14.7 J			59.5
2		5.0 J	AF	12.0 J	14.1 J				13.0 J	21.3 J	18.0 J	
3	23.1 J		13.2 J			9.2	15.0 J	13.1 J			AH	17.7
4		20.4 J		11.6 J	6.3 J				AQ	20.5 J		
5	42.1 J		34.2 J			4.7 J	6.6 J	14.3 J			AH	AF
6		25.9 J		19.9 J	8.5 J				AF	8.6 J		
7	32.4 J		35.0 J			9.4 J	15.9 J	11.9 J	AQ		8.6 J	AH
8		8.7 J		9.4 J	7.0 J				AF			
9	25.7 J					AF	10.3 J	10.0 J	8.0 J			
10		20.7 J		9.3 J	9.2 J				14.3 J	10.9 J		27.5
11	33.6 J		AG			12.8 J		AF				
12		6.1 J	26.5 J			12.3 J	10.6 J				42.2	29.3
13	44.3 J		25.4 J						6.5 J	AG		
14		19.4 J		7.1 J	7.4 J	10.2 J	8.9 J	9.3 J				17.4
15					AF							
16	34.8 J		AG			10.0 J	8.7 J	AF				
17		10.6 J		AF	9.6 J							
18	47.6 J		10.0 J			7.0 J	10.8 J					
19				13.8 J		10.1 J						
20				13.5 J								
21					9.5 J	10.9	9.3 J	8.7 J				
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
NO.:	11	8	8	10	10	10	10	9	8	5	4	7
MAX:	47.6	25.9	35.0	19.9	14.1	12.8	15.9	14.3	14.7	34.1	42.2	59.5
MEAN:	34.40	14.60	21.85	11.35	9.01	9.61	11.06	10.35	11.04	15.08	21.15	29.21
ANNUAL OBSERVATIONS:	100	ANNUAL MEAN:	16.47	ANNUAL MAX:	59.5							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

CAS NUMBER: 35.324722
 LATITUDE: -118.999167
 LONGITUDE: 11
 UTM ZONE: 3910689
 UTM NORTHING: 318280
 UTM EASTING: 0
 ELEVATION-MSL: 0
 PROBE HEIGHT: 2

UNIT: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

DURATION: 24 HOURS

STATE: (06) California
 ACCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0680) BAKERSFIELD, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN

REPORT FOR: 2005

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-029-0016 FOC:1
 COUNTY: (029) Kern
 CITY: (03526) Bakersfield
 SITE ADDRESS: 410 E. PLANZ RD. BAKERSFIELD, CA 93307
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSEN SEQUENTIAL

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN BAM2.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1118) Ventura County APCD

MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
Day	12.8		17.0	8.9	9.5			12.7	19.4	21.4				
2		26.0		10.0	1.0	10.5	14.8		10.4	9.4	9.0	15.9		
3	14.0		19.2			7.9	17.5	19.0			AF	47.6		
4		41.8		11.0	9.6			20.0	14.9	20.9				
5	6.7		13.3			7.3	9.7		10.6	15.3	AF	AN		
6		33.4 X		8.7	AF			24.0						
7	AG		51.6	11.0	13.2	12.2	23.2		12.5	20.6	24.6	40.2 AF		
8		40.2	23.0		AF			AF						
9	29.5			AR	AF	11.3	23.3		15.1	10.5	41.3	P 77.5		
10		26.6	21.7			9.7	AV	AF			42.9	P 66.4		
11			18.8	8.4	AF			14.3	15.9	21.7		24.2		
12			AF			15.9	24.0				P 71.7	38.0		
13	21.1	1.4		30.6	AN	9.7	20.0	14.7	19.0	AF				
14			5.0			15.9			16.4	AF	AO	23.0		
15	27.3	14.4		14.0	17.7	9.7								
16			1.5		15.7			18.2						
17		AN		5.3	13.7	11.1	AV	19.0	18.9	10.6	12.8	AF		
18	5.4		8.1		AN	21.7	14.5	17.9		18.0	25.1	23.3		
19					AN					22.2				
20	24.8				AN					32.8				
NO.:	9	6	10	9	7	10	8	9	10	11	8	9		
MAX:	29.5	41.8	51.6	30.6	17.7	21.7	24.0	24.0	19.4	32.8	71.7	77.5		
MEAN:	18.69	26.20	17.78	11.99	11.49	11.73	18.38	17.76	15.31	18.49	33.45	42.10		
ANNUAL OBSERVATIONS:	106	ANNUAL MEAN:	19.99	ANNUAL MAX:	77.5	3 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						3 Values marked with 'S' exceed the SECONDARY STANDARD of: 65		

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

(88101) PM2.5 - Local Conditions
 SITE ID: 06-029-0016 POC: 1
 COUNTY: (029) Kern
 CITY: (03526) Bakersfield
 SITE ADDRESS: 410 E. PLANT RD., BAKERSFIELD, CA 93307
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSEN SEQUENTIAL
 SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1118) Ventura County APCD
 STATE: (06) California
 ACRN: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0680) BAKERSFIELD, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: SUBURBAN
 CAS NUMBER:
 LATITUDE: 35.324722
 LONGITUDE: -118.999167
 UTM ZONE: 11
 UTM NORTING: 3910689
 UTM EASTING: 318280
 ELEVATION-MSL: 0
 PROBE HEIGHT: 2
 DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Mar. 21, 2007

REPORT FOR: 2006

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1		17.3				AF	11.8				AF	33.9	
2	18.1			8.5	AF	8.9			AQ				
3			5.8			8.3					AG		
4	16.3	36.2				10.4	22.2	AF	23.3		AF		
5	AF		15.3	2.9	AN	AJ	14.9		20.9	18.3			
6			1.7		AN		11.2	10.6			23.9		
7	30.7	43.8			AN	AF	12.4				AF	P 78.6	
8	AF		10.8	AN					18.0	28.1			
9								18.6			50.6		
10		33.0		BA	AF	12.6	16.2	14.9	24.1	15.0	AF	7.9	
11	36.3							17.8		AF			
12			7.8					15.2			7.2		
13		AF		BA	AF	8.5	AQ		29.4	17.5	AF	27.2	
14	7.2					8.1							
15			12.3					14.0					
16		11.6				13.2	18.2				29.0		
17	26.4	9.5		AN	AF				17.3	AF	41.0	AR	
18			4.3					22.0					
19		AF				13.4	AF				64.7	18.7	
20	24.7			AN	11.1		16.7		14.5 e	AF			
21			6.0		8.1		18.2	AF		16.7			
22		21.2				23.7	AF		10.3		50.2	AF	
23	32.5			BA	AF				42.5 e	AQ			
24		37.5	18.6			19.4		19.5		16.1			
25		AF									19.5	AN	
26	17.0			BA	9.5			19.0		29.3 e			
27			14.5			20.0	AF			27.7	8.5	AQ	
28		4.9		BA	AF				33.1	AF	33.0		
29	AN		5.9					19.7		28.3	17.8		
30							AF					AF	
31													
NO.:	9	9	11	2	5	11	7	12	10	9	9	7	
MAX:	36.3	43.8	18.6	8.5	18.7	23.7	22.2	22.0	42.5	23.3	64.7	78.6	
MEAN:	23.24	23.89	9.36	5.70	12.08	13.32	16.53	16.45	25.24	19.78	32.73	31.01	
ANNUAL OBSERVATIONS:	101	ANNUAL MEAN:	19.81	ANNUAL MAX:	78.6	1 Values marked with 'p' exceed the PRIMARY STANDARD of: 65						1 Values marked with 's' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-031-0004 POC: 1
 COUNTY: (031) Kings
 CITY: (16224) Corcoran
 SITE ADDRESS: 1520 PATTERSON AV., CORCORAN
 SITE COMMENTS: SITE IS PARALLEL MONITOR TO 06-031-0003 WHICH IS TO BE CLOSED MID 97
 MONITOR COMMENTS: ANDERSON SEQUENTIAL

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
 MONITOR TYPE: SIMMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1118) Ventura County APCD

STATE: (06) California
 AOC: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER:
 LATITUDE: 36.101389
 LONGITUDE: -119.565833
 UTM ZONE: 11
 UTM NORTHING: 3998073
 UTM EASTING: 269015
 ELEVATION-MSL: 0
 PROBE HEIGHT: 5

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (1C)
 MIN DETECTABLE: 2

REPORT FOR: 2004

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16.6		12.0					7.5				
2						9.1	AF				AF	61.0
3		7.8		12.8	13.6				18.7		9.1	
4	16.0		20.1								21.3	29.7
5								10.6	18.7			
6		27.8										
7	37.1		33.7			4.0	9.0					
8						4.0	AF					
9		RM		13.8	AN	8.6		19.0	6.0		43.5 X	17.5
10	25.5		26.2									
11									6.5		16.8	27.3
12		29.4										
13	32.0		AQ					AF				
14				6.8	6.7	8.1	9.5		28.0 e		AG	20.0
15		28.9										
16	33.0		24.0									
17												
18		7.5						17.7	5.8	AF	26.2	
19	40.0		AN			8.4	7.4	9.2			49.6	
20											34.4	24.5
21		9.0		7.1	6.4				39.3			
22	35.2											
23												
24		6.1										
25	47.2		AF									
26								AF	17.3		28.8	40.6
27		11.4	AQ	13.2	13.1	4.9	10.0	7.6			49.4	30.3
28	24.7		AF									
29												
30			22.2									
31	13.3		14.1					12.5	7.1		20.5	6.1
NO.:	11	8	7	5	4	5	5	6	5	9	9	10
MAX:	47.2	29.4	33.7	13.8	13.6	9.1	10.0	19.0	17.3	39.3	49.6	61.0
MEAN:	29.15	15.99	21.76	10.74	9.95	6.90	8.90	12.25	9.46	22.26	30.38	28.32
ANNUAL OBSERVATIONS:	84	ANNUAL MEAN:	19.65	ANNUAL MAX:	61.0							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

(88101) PM2.5 - Local Conditions
SITE ID: 06-031-0004 FOC: 1
COUNTY: (031) Kings
CITY: (16224) Corcoran
SITE ADDRESS: 1520 PATTERSON AV., CORCORAN
SITE COMMENTS: SITE IS PARALLEL MONITOR TO 06-031-0003 WHICH IS TO BE CLOSED MID 97
MONITOR COMMENTS: ANDERSON SEQUENTIAL

CAS NUMBER: 36-101389
LATITUDE: -119.565833
LONGITUDE: 11
UTM ZONE: 3998073
UTM NORTHING: 269015
UTM EASTING: 0
ELEVATION-MSL: 0
PROBE HEIGHT: 5

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
MONITOR TYPE: SJAMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (UG)
MIN DETECTABLE: 2

REPORT FOR: 2005

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	AF							10.4	12.3	11.9		
2		8.1				8.0	AJ				7.7	16.2
3		41.0		5.8	8.5					6.1		
4	13.8		18.2								18.2	50.7
5		34.5						8.7		11.6		
6	10.1		33.4					9.4			11.7	57.7
7		31.4		10.2	4.7	5.5	AF			12.2		
8	4.1		48.1								19.7	P 92.5
9		24.3						16.4	7.8	26.3		
10	22.6		19.7			8.2		17.1		11.4	36.7	P 74.5
11		AJ		22.9	6.0							
12	35.0		21.1								51.5	16.1
13		8.7						11.3		11.7		
14	19.8		.5			9.4	13.3				64.6	22.7
15		2.7		17.6	8.1					43.2		
16	22.0		3.4									
17		24.5							10.0	15.2	P 77.8	23.3 X
18	32.2		14.9		9.0	AN	13.9			14.0	17.5	15.5 X
19		14.2		3.5								
20	7.3		7.6								27.0	21.6
21		24.6								25.8		
22	10	8	10	5	5	4	4	5	5	11	10	10
23	NO.:	35.0	41.0	48.1	22.9	9.0	17.1	13.3	12.3	43.2	77.8	92.5
24	MAX:	15.15	22.66	17.50	12.00	7.26	15.18	10.68	10.02	17.22	33.24	39.08
25	MEAN:											
26	ANNUAL OBSERVATIONS:	87	ANNUAL MEAN:	20.14	ANNUAL MAX:	92.5						

3 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
3 Values marked with 'S' exceed the SECONDARY STANDARD of: 65
Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-031-0004 POC: 1
 COUNTY: (031) Kings
 CITY: (16224) Corcoran
 SITE ADDRESS: 1520 PATTERSON AV., CORCORAN
 SITE COMMENTS: SITE IS PARALLEL MONITOR TO 06-031-0003 WHICH IS TO BE CLOSED MID 97
 MONITOR COMMENTS: ANDERSON SEQUENTIAL

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
 MONITOR TYPE: SHAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/M
 REPORTING ORG: (1118) Ventura County APCD

STATE: (06) California
 ACP: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (0000) NOT IN AN URBAN AREA
 LAND USE: RESIDENTIAL
 LOCATION SETTINGS: SUBURBAN

CAS NUMBER:
 LATITUDE: 36.101389
 LONGITUDE: -119.565833
 UTM ZONE: 11
 UTM NORTHING: 3998073
 UTM EASTING: 269015
 ELEVATION-MSL: 0
 PROBE HEIGHT: 5

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (1C)
 MIN DETECTABLE: 2

REPORT FOR: 2006

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1		23.9									36.2	34.3
2	AV				11.9							
3		18.7	3.1			7.1	10.7	15.2	13.1	30.0		
4		24.4 X		3.0	16.0					11.7	20.5	45.7
5		30.4	3.7									
6												
7	17.9 X								14.2	17.8	50.1	P 74.2 J
8			11.3				10.4	12.7			15.5	4.4
9		63.8			14.2							
10				5.9								
11	29.2 X		5.7								20.7	23.4
12		32.1										
13									11.6 a	14.0		
14	AG		7.8					9.3		6.3	36.7	AV
15		9.8		3.4	15.7	11.7	12.2					
16			AH									
17	AG	3.3										
18												
19	21.2											
20												
21		25.7	AH				16.7	12.0		24.8	22.5	30.6
22												
23	23.3			5.7	AF					29.8	42.0	27.2
24			AH									
25		38.7			AG						AN	33.3
26	12.5											
27		3.1	AH						15.3	16.3 a	5.5	8.8
28				AF		11.2	8.7	AO				
29	19.2											
30			3.7							32.0 a		
31												44.0
NO.:	7	10	6	4	5	5	5	4	5	10	9	10
MAX:	29.2	63.8	11.3	5.9	16.0	11.7	16.7	15.2	15.3	32.0	50.1	74.2
MEAN:	21.10	24.95	5.88	4.50	13.66	10.24	11.74	12.30	12.76	19.51	27.74	32.59
ANNUAL OBSERVATIONS:	80	ANNUAL MEAN:	18.91	ANNUAL MAX:	74.2							

1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
 1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

(88101) PM2.5 - Local Conditions
SITE ID: 06-047-2510 FOC: 1
COUNTY: (047) Merced
CITY: (46898) Merced
SITE ADDRESS: 2334 "N" ST. MERCED, CA
SITE COMMENTS:
MONITOR COMMENTS: ANDERSON SEQUENTIAL

CAS NUMBER:
LATITUDE: 37.309167
LONGITUDE: -120.460356
UTM ZONE: 10
UTM NORTHING: 4113143
UTM EASTING: 723284
ELEVATION-MSL: 0
PROBE HEIGHT: 8.7

STATE: (06) California
AOC#: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (4940) MERCED, CA
LAND USE: COMMERCIAL
LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
MONITOR TYPE: SLAMS
COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAMS2.5-300 PM2.5 SEQ W/M
REPORTING ORG: (1118) Ventura County APCD

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

REPORT FOR: 2004

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	12.0 a		14.1			8.2	11.0	6.9			32.3	53.1
2		6.8		7.7	12.3					14.7		
3	20.8		11.5								18.0	43.0
4		30.8							13.7	15.9		
5	22.8		22.0			5.8	8.1	12.2			34.4	6.1
6		32.8		14.7	6.2					5.1		
7	24.9		8.4								16.7	29.9 X
8	30.3	29.0	AQ			7.1	8.3	10.5	6.0	10.6	27.5 X	24.5
9	34.2	22.7	19.1	7.2	8.2					34.8 e		
10									5.5	4.7	37.0	27.0
11	41.0		10.1			9.7	5.2	11.1			27.0	20.0
12		12.7	12.0	7.9	6.4					13.7	38.5	29.0
13	35.3								13.7	14.0	46.9	20.5
14		8.5	AQ			4.8	10.2	5.8			29.6	5.7 a
15	31.1								7.1	25.0		
16		7.7	13.8	11.9	10.0							
17	24.6											
18	7.5	8.9						10.5				
19	11	9	9	5	5	5	5	6	5	10	10	10
20	41.0	32.8	22.0	14.7	12.3	9.7	11.0	12.2	13.7	34.8	46.9	53.1
21	25.86	16.87	13.32	9.88	8.62	7.12	8.56	9.50	9.20	14.94	30.79	25.88
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
NO.:	11	9	9	5	5	5	5	6	5	10	10	10
MAX:	41.0	32.8	22.0	14.7	12.3	9.7	11.0	12.2	13.7	34.8	46.9	53.1
MEAN:	25.86	16.87	13.32	9.88	8.62	7.12	8.56	9.50	9.20	14.94	30.79	25.88
ANNUAL OBSERVATIONS:	90	ANNUAL MEAN:	17.18	ANNUAL MAX:	53.1							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007
 CAS NUMBER:
 LATITUDE: 37.309167
 LONGITUDE: -120.480556
 UTM ZONE: 10
 UTM NORTHING: 4131943
 UTM EASTING: 723284
 ELEVATION-MSL: 0
 PROBE HEIGHT: 8.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-047-2510 POC: 1
 COUNTY: (047) Merced
 CITY: (46898) Merced
 SITE ADDRESS: 2334 "M" ST. MERCED, CA
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSON SEQUENTIAL

STATE: (06) California
 AOCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (4940) MERCED, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
 MONITOR TYPE: SLMMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ W/W
 REPORTING ORG: (1118) Ventura County APCD

REPORT FOR: 2005

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	6.1								12.0	10.0		
2			9.3					6.4			4.5	8.8
3		48.6				8.7	12.0					
4	7.9			AF	6.4					5.5		
5			14.6								14.2	46.8
6		19.0							9.5	9.4		
7	4.7							8.5			8.9	53.9
8		29.4	24.8	6.5		4.4	5.3			10.9		
9			34.0	10.4	5.0						18.2	AF
10	11.8									17.0		
11		18.3						10.7	9.7		44.0	44.8
12	25.6		8.7			7.2	9.9			6.4	44.2	38.3
13												
14		15.7		9.7	6.0							
15	31.5		21.4									
16												
17		6.7						7.7	9.7	9.8		
18	28.1											
19			5.9			6.2	9.9			22.0	46.0	23.4
20		2.4		9.8	5.8							
21	18.7		3.0									
22												
23		17.9							8.5	9.9	48.3	AN
24	37.9											
25			14.6			5.4	11.7	12.9			22.7	9.9
26		17.7		5.3	7.3					13.6		
27	6.5		6.2								23.8	23.5
28										19.1		
29												
30												
31	32.2											
NO.:	11	9	10	5	5	5	5	5	5	11	10	9
MAX:	37.9	48.6	34.0	10.4	7.3	8.7	12.0	12.9	12.0	22.0	48.3	53.9
MEAN:	19.18	19.52	14.25	8.34	6.10	6.38	9.76	9.24	9.88	12.15	27.48	28.30
ANNUAL OBSERVATIONS:	90	ANNUAL MEAN:	16.01	ANNUAL MAX:	53.9							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT
 Mar. 21, 2007
 CAS NUMBER: 37.309167
 LATITUDE: -120.400556
 LONGITUDE: 10
 UTM ZONE: 4111943
 UTM NORTHING: 723284
 UTM EASTING: 0
 ELEVATION-MSL: 8.7
 PROBE HEIGHT: 8.7
 STATE: (06) California
 ACR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (4940) MERCED, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY
 DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2
 REPORT FOR: 2006

(88101) PM2.5 - Local Conditions
 SITE ID: 06-047-2510 FOC: 1
 COUNTY: (047) Merced
 CITY: (46898) Merced
 SITE ADDRESS: 2334 "W" ST. MERCED, CA
 SITE COMMENTS:
 MONITOR COMMENTS: ANDERSON SEQUENTIAL
 SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control Dist
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (120) ANDERSEN RAAS2.5-300 PM2.5 SEQ w/W
 REPORTING ORG: (1118) Ventura County APCD

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1		17.6									25.1	36.9
2	3.8 a		3.2					15.8	11.6	15.6		
3		14.8				4.8	11.0			16.9	15.9	43.0
4	26.5		3.3	3.3	15.7							
5		28.5	5.2					13.4	14.2	13.4	19.0	55.8
6	9.8		6.6									
7		43.8		4.1	13.4	11.1	8.9			AF	13.5	7.4
8	27.5		6.2									
9		34.7						9.3	11.0	13.2	19.7	16.2
10	7.0		4.6			8.5	11.3			15.6		
11	23.3		3.5	3.5	11.4					6.1	28.1	7.8
12		8.4	7.0									
13	34.7											
14												
15												
16		15.5										
17												
18												
19												
20	34.7											
21												
22		24.6	5.3			12.7	15.7	11.3	10.2	12.5	27.1	32.2
23	28.5			6.8	6.4					17.6	32.8	25.3
24			6.7									
25		23.9									29.3	42.5
26	AV										AF	6.0
27			AR			7.4	9.9	9.2	15.3	12.4		
28		3.5		12.1	5.1					20.6	35.3	52.5
29	19.3		5.3									
30												
31												
NO.:	9	10	9	5	5	5	5	5	5	10	10	11
MAX:	34.7	43.8	7.0	12.1	15.7	12.7	15.7	15.8	15.3	20.6	35.3	55.8
MEAN:	20.04	21.53	5.57	5.96	10.40	8.90	11.36	11.80	12.46	14.39	24.58	29.60
ANNUAL OBSERVATIONS:	89	ANNUAL MEAN:	16.47	ANNUAL MAX:	55.8							

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

CAS NUMBER: 37.950833
LATITUDE: -121.2675
LONGITUDE: 10
UTM ZONE: 4201570
UTM NORTHING: 652220
UTM EASTING: 0
ELEVATION-MSL: 6.1
PROBE HEIGHT: 6.1

STATE: (06) California
AOC: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (8120) STOCKTON, CA
LAND USE: RESIDENTIAL
LOCATION SETTING: URBAN AND CENTER CITY

REPORT FOR: 2004

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (µC)
MIN DETECTABLE: 2

SITE ID: 06-077-1002 FOC: 1
COUNTY: (077) San Joaquin
CITY: (75000) Stockton
SITE ADDRESS: HAZELTON-HD, STOCKTON
SITE COMMENTS: ARB SITE NUMBER 3900252 STILL OPERATING
MONITOR COMMENTS: PM2.5 RAP SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
MONITOR TYPE: SILMS
COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/W
REPORTING ORG: (0145) California Air Resources Board

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	16.0		8.0	9.0	11.0	9.0	10.0	7.0			41.0	31.0
2		11.0	8.0	9.0	11.0	9.0	10.0	8.0	9.0	11.0	41.0	31.0
3		23.0	7.0			6.0	12.0				12.0	39.0
4												
5		30.0		7.0	6.0	6.0	12.0	7.0	15.0	11.0	12.0	39.0
6			17.0			5.0	8.0	8.0			26.0	11.0
7	31.0											
8		11.0		13.0	7.0	9.0	8.0	11.0	14.0	5.0	23.0	21.0
9			8.0			9.0	9.0	7.0	6.0	19.0	12.0	27.0
10	14.0			9.0	6.0	9.0	10.0	11.0	6.0	27.0	23.0	21.0
11		34.0		9.0	6.0	9.0	9.0	7.0	5.0	6.0	28.0	26.0
12			16.0			8.0	10.0	8.0	5.0	6.0	7.0	28.0
13	25.0			6.0	9.0	10.0	7.0	7.0	5.0	6.0	7.0	28.0
14		27.0				10.0	10.0	8.0	5.0	5.0	7.0	28.0
15			10.0			9.0	10.0	10.0	14.0	9.0	30.0	33.0
16	28.0			5.0	6.0	9.0	7.0	7.0	9.0	6.0	36.0	28.0
17		5.0		5.0	6.0	9.0	7.0	8.0	9.0	6.0	17.0	8.0
18			9.0			10.0	10.0	10.0	7.0	7.0	17.0	8.0
19	31.0			7.0	7.0	10.0	10.0	5.0	9.0	6.0	17.0	8.0
20		14.0				8.0	10.0	5.0	9.0	6.0	17.0	8.0
21			9.0			8.0	10.0	5.0	9.0	6.0	17.0	8.0
22	32.0			10.0	10.0	8.0	10.0	5.0	9.0	6.0	17.0	8.0
23		11.0		10.0	10.0	8.0	10.0	5.0	9.0	6.0	17.0	8.0
24			9.0			6.0	12.0	5.0	9.0	6.0	17.0	8.0
25	14.0			13.0	7.0	6.0	12.0	5.0	9.0	6.0	17.0	8.0
26		7.0				8.0	12.0	5.0	9.0	6.0	17.0	8.0
27			10.0			8.0	12.0	5.0	9.0	6.0	17.0	8.0
28	14.0			11.0	8.0	8.0	8.0	5.0	9.0	6.0	17.0	8.0
29			7.0			8.0	8.0	5.0	9.0	6.0	17.0	8.0
30						8.0	8.0	5.0	9.0	6.0	17.0	8.0
31	5.0					8.0	8.0	5.0	9.0	6.0	17.0	8.0
NO.:	11	9	11	10	10	10	10	11	10	10	10	10
MAX:	32.0	34.0	17.0	13.0	11.0	10.0	12.0	11.0	15.0	27.0	41.0	39.0
MEAN:	21.18	16.67	10.00	9.00	7.70	7.80	9.30	8.00	9.00	11.60	23.20	25.20
ANNUAL OBSERVATIONS:	122	ANNUAL MEAN:	13.19	ANNUAL MAX:	41.0							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-077-1002 POC: 1
 COUNTY: (077) San Joaquin
 CITY: (75004) Stockton
 SITE ADDRESS: HAZELTON-HD, STOCKTON
 SITE COMMENTS: ARB SITE NUMBER 3900252 STILL OPERATING
 MONITOR COMMENTS: PM2.5 RAP SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SUMMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/M
 REPORTING ORG: (0145) California Air Resources Board

STATE: (06) California
 AQCR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (8120) STOCKTON, CA
 LAND USE: RESIDENTIAL
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 37.950833
 LATITUDE: -121.2675
 LONGITUDE: 10
 UTM ZONE: 4201570
 UTM NORTHING: 652220
 ELEVATION-MSL: 0
 PROBE HEIGHT: 6.1

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

REPORT FOR: 2005

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	4.0			14.0	5.0				13.0	6.0		
2			11.0					9.0			6.0	
3		44.0				9.0	13.0				6.0	6.0
4	17.0			4.0	7.0			8.0	8.0	4.0		
5			10.0			6.0	8.0	8.0			13.0	
6		7.0		4.0	4.0				18.0	13.0		37.0
7	7.0		23.0					13.0				
8		16.0				5.0	4.0		9.0	13.0	7.0	28.0
9	11.0			5.0	4.0			14.0				
10		22.0		3.0	8.0	6.0	AF		9.0	17.0	12.0	63.0
11	19.0		5.0					11.0			11.0	43.0
12		13.0		8.0	7.0	9.0	AF	AF	8.0	4.0		
13	27.0		13.0			6.0					32.0	7.0
14		9.0		4.0	6.0			10.0	10.0	7.0		
15		3.0				6.0	10.0				46.0	34.0
16	19.0		4.0	11.0	7.0		9.0	12.0	12.0	12.0		
17		12.0	5.0			8.0	10.0	9.0	9.0	5.0		
18	32.0			7.0	11.0			16.0			31.0	14.0
19		18.0	8.0			6.0	11.0				12.0	
20	6.0			5.0	7.0		10.0		15.0	AN		
21			7.0			11.0		9.0			21.0	28.0
22			4.0		11.0		14.0			15.0		
23												
24												
25												
26												
27												
28												
29												
30												
31												
NO.:	11	9	11	10	11	10	10	9	10	10	11	10
MAX:	32.0	44.0	23.0	14.0	11.0	11.0	14.0	16.0	18.0	17.0	46.0	63.0
MEAN:	16.64	16.00	9.91	6.50	7.00	7.20	9.80	11.33	11.10	9.60	17.91	27.20
ANNUAL OBSERVATIONS:	122	ANNUAL MEAN:	12.51	ANNUAL MAX:	63.0							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(68101) PM2.5 - Local Conditions
SITE ID: 06-077-1002 POC: 1
COUNTY: (077) San Joaquin
CITY: (75000) Stockton
SITE ADDRESS: HAZELTON-HD, STOCKTON
SITE COMMENTS: ARB SITE NUMBER 3900252 STILL OPERATING
MONITOR COMMENTS: PM2.5 RAP SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
MONITOR TYPE: SIMMS
COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/W
REPORTING ORG: (0145) California Air Resources Board

STATE: (06) California
AOCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (6120) STOCKTON, CA
LAND USE: RESIDENTIAL
LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER:
LATITUDE: 37.950833
LONGITUDE: -121.2675
UTM ZONE: 10
UTM NORTHING: 4201570
UTM EASTING: 652220
ELEVATION-MSL: 0
PROBE HEIGHT: 6.1

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (IC)
MIN DETECTABLE: 2

REPORT FOR: 2006

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1		17.0		7.0	13.0	6.0	8.0		11.0	7.0	19.0	21.0
2	4.0		5.0					12.0				
3		14.0		4.0	14.0	5.0	9.0		11.0	7.0	10.0	36.0
4	30.0		5.0					8.0				
5		22.0		4.0	12.0	9.0	9.0		11.0	11.0	14.0	47.0
6	7.0		6.0					13.0				
7		42.0		4.0	15.0	10.0	8.0		19.0	11.0	15.0	5.0
8	38.0		6.0					11.0				
9		22.0		6.0	13.0	6.0	7.0		12.0	11.0	18.0	30.0
10	9.0		7.0					9.0				
11		11.0		4.0	12.0	6.0	10.0		10.0	5.0	19.0	7.0
12	22.0		3.0					12.0				
13		9.0		10.0	7.0	14.0	11.0		8.0	17.0	22.0	36.0
14	22.0		8.0					10.0				
15		25.0		9.0	8.0	9.0	12.0		10.0	19.0	21.0	18.0
16	17.0		8.0					13.0				
17		35.0		11.0	6.0	10.0	13.0		17.0	14.0	12.0	36.0
18	8.0		10.0					9.0				
19		5.0		8.0	6.0	8.0	9.0		18.0	20.0	7.0	4.0
20	11.0		12.0					12.0				
21		10.0		7.0								
22		10.0		10.0	10.0	10.0	11.0		10.0	10.0	10.0	11.0
23	38.0		12.0		15.0	14.0	13.0		19.0	20.0	22.0	47.0
24		42.0		6.70	10.60	8.30	9.36		12.70	12.20	15.70	26.09
25	16.80		7.00					10.90				
26		20.20		13.12	ANNUAL MAX:	47.0						
27												
28												
29												
30												
31												
NO.:	10	10	10	10	10	10	11	10	10	10	10	11
MAX:	38.0	42.0	12.0	11.0	15.0	14.0	13.0	13.0	19.0	20.0	22.0	47.0
MEAN:	16.80	20.20	7.00	6.70	10.60	8.30	9.36	10.90	12.70	12.20	15.70	26.09
ANNUAL OBSERVATIONS:	122	ANNUAL MEAN:	13.12	ANNUAL MAX:	47.0							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-099-0005 FOC: 1
 COUNTY: (099) Stanislaus
 CITY: (48354) Modesto
 STATE: (06) California
 SITE ADDRESS: 814 14TH ST., MODESTO
 ACR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (5170) MODESTO, CA
 SITE COMMENTS: ARE SITE NUMBER 5000468. NEW SITE 7-15-81.
 MONITOR COMMENTS: PM2.5 RAP SEQUENTIAL SAMPLER
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/W
 REPORTING ORG: (0145) California Air Resources Board

CAS NUMBER: 37.641667
 LATITUDE: -120.993611
 UTM ZONE: 10
 UTM NORTHING: 4167746
 UTM EASTING: 677022
 ELEVATION-MSL: 0
 PROBE HEIGHT: 5.5

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

REPORT FOR: 2004

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	17.0		11.0			8.0	9.0	6.0			43.0	38.0
2												
3		10.0		7.0	9.0				8.0	11.0		
4	19.0		6.0			5.0	11.0	7.0			15.0	48.0
5		30.0		7.0	6.0			8.0	13.0	11.0		
6			13.0			4.0	7.0				22.0	10.0
7	32.0											
8		11.0		12.0	4.0							
9			6.0		5.0	7.0	8.0	9.0	12.0	4.0	13.0	28.0
10	15.0											
11		45.0		8.0		6.0	8.0	10.0	4.0	10.0	26.0	23.0
12			14.0		AF							
13	30.0		7.0			10.0	6.0	6.0	7.0	53.0		
14		29.0		6.0								
15												
16	29.0											
17		4.0		4.0	3.0	10.0	6.0	6.0	4.0	6.0	28.0	39.0
18			7.0		6.0							
19	42.0					8.0	5.0	8.0			10.0	28.0
20		14.0		6.0								
21			9.0									
22	31.0											
23		10.0		9.0	8.0	7.0	9.0	5.0	15.0	13.0	32.0	34.0
24			8.0									
25	18.0					4.0	9.0	4.0	9.0	9.0	41.0	25.0
26		6.0		11.0	6.0							
27	21.0		10.0									
28												
29						8.0	7.0	8.0	8.0	19.0	38.0	9.0
30												
31	5.0		5.0					9.0				
NO.:	11	9	11	10	10	10	10	11	10	10	10	10
MAX:	42.0	45.0	14.0	12.0	9.0	10.0	11.0	10.0	15.0	53.0	43.0	48.0
MEAN:	23.55	17.67	8.73	7.80	5.80	6.70	7.90	7.27	8.60	14.40	26.80	28.20
ANNUAL OBSERVATIONS:	122	122	122	122	122	122	122	122	122	122	122	122
ANNUAL MEAN:					13.57							
ANNUAL MAX:						53.0						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007
 CAS NUMBER: 37.641667
 LATITUDE: -120.995611
 LONGITUDE: 10
 UTM ZONE: 4167746
 UTM NORTHING: 677022
 UTM EASTING: 0
 ELEVATION-MSL: 5.5
 PROBE HEIGHT: 5.5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

STATE: (06) California
 ACR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (5170) MODESTO, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

(68101) PM2.5 - Local Conditions
 SITE ID: 06-099-0005 FOC: 1
 COUNTY: (099) Stanislaus
 CITY: (48354) Modesto
 SITE ADDRESS: 814 14TH ST., MODESTO
 SITE COMMENTS: ARB SITE NUMBER 5000568. NEW SITE 7-15-81.
 MONITOR COMMENTS: PM2.5 Rsp SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER W/N
 REPORTING ORG: (0145) California Air Resources Board

REPORT FOR: 2005

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	6.0			20.0	4.0			6.0	11.0	6.0		
2			9.0								6.0	6.0
3		53.0				8.0	12.0		8.0	5.0		
4	18.0			4.0	6.0							
5			15.0					8.0			15.0	55.0
6	7.0	9.0		4.0	3.0	5.0	6.0		10.0	11.0		
7			29.0			4.0	4.0	11.0			9.0	39.0
8	12.0	21.0		5.0	5.0				8.0	12.0		
9			23.0			6.0	8.0	15.0			10.0	P 80.0
10		31.0							7.0	17.0		
11	27.0		5.0	AK	7.0			12.0			13.0	45.0
12		15.0		8.0	6.0	9.0	8.0		8.0	5.0		
13	42.0		19.0					12.0				
14		10.0		3.0	5.0	5.0	9.0		9.0	10.0	41.0	10.0
15	25.0	3.0	4.0			5.0	9.0	11.0			61.0	34.0
16				9.0	5.0				13.0	17.0		
17	21.0	13.0	4.0			7.0	11.0	13.0			37.0	15.0
18		17.0	13.0		11.0				8.0	6.0		
19	6.0		8.0	4.0	6.0	5.0	10.0	13.0	14.0	11.0	15.0	16.0
20						10.0	10.0	7.0			23.0	32.0
21	29.0				10.0					15.0		
22		11	9	10	11	10	10	10	10	11	10	10
23	NO.:	42.0	53.0	29.0	20.0	11.0	12.0	15.0	14.0	17.0	61.0	80.0
24	MAX:	20.27	19.11	12.90	6.89	6.18	8.70	10.80	9.60	10.45	23.00	33.20
25	MEAN:											
26	ANNUAL OBSERVATIONS:	121	ANNUAL MEAN:	13.93	ANNUAL MAX:	80.0						

1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65
 1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65
 Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

(88101) PM2.5 - Local Conditions
 SITE ID: 06-099-0005 FOC: 1
 COUNTY: (099) Stanislaus
 CITY: (48354) Modesto
 SITE ADDRESS: 814 14TH ST., MODESTO
 SITE COMMENTS: AHS SITE NUMBER 5000569. NEW SITE 7-15-81.
 MONITOR COMMENTS: PM2.5 R&P SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: (117) R & P MODEL 2000 PM2.5 SAMPLER w/W
 REPORTING ORG: (0145) California Air Resources Board

STATE: (06) California
 ACR: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (5170) MODESTO, CA
 LAND USE: COMMERCIAL
 LOCATION SETTING: URBAN AND CENTER CITY

CAS NUMBER: 37.641667
 LATITUDE: -120.993611
 LONGITUDE: 10
 UTM NORTHING: 4167746
 UTM EASTING: 677022
 ELEVATION-MSL: 0
 PROBE HEIGHT: 5.5

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (µC)
 MIN DETECTABLE: 2

REPORT FOR: 2006

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1		21.0		8.0	12.0	4.0	9.0		12.0	10.0	24.0	26.0	
2	7.0		5.0			4.0		13.0					
3		16.0		4.0	12.0	4.0	26.0		12.0	12.0	14.0	45.0	
4	37.0		5.0			7.0	9.0	8.0					
5		22.0		5.0	9.0	10.0	8.0	13.0	13.0	19.0	19.0	F 71.0	
6	8.0		6.0			5.0							
7		52.0		4.0	12.0	10.0	8.0		21.0 F	13.0	15.0	7.0	
8	38.0		7.0			7.0	9.0	12.0					
9		27.0		6.0	12.0	5.0	9.0	8.0	12.0	5.0	20.0	32.0	
10	10.0		7.0			7.0	9.0						
11		13.0		4.0	11.0	12.0	12.0	12.0	12.0	5.0	21.0	8.0	
12	26.0		5.0			12.0	12.0						
13		15.0		7.0	7.0	10.0	14.0	10.0	9.0	18.0	23.0	44.0	
14	33.0		8.0			10.0	14.0						
15		33.0		8.0	6.0	11.0	14.0	11.0	9.0	19.0	22.0	23.0	
16	21.0		7.0			11.0	14.0						
17		42.0		12.0	5.0	9.0	9.0	8.0	16.0	16.0	25.0	39.0	
18	16.0		11.0			9.0	9.0						
19		8.0		8.0	5.0	11.0	11.0	13.0	19.0	21.0	7.0	5.0	
20	13.0		11.0			5.0	5.0						
21		11.0		8.0	5.0	11.0	5.0						
22	13.0		11.0			5.0	5.0						
23		8.0		8.0	5.0	11.0	5.0						
24		8.0		8.0	5.0	11.0	5.0						
25	13.0		11.0			5.0	5.0						
26		8.0		8.0	5.0	11.0	5.0						
27		8.0		8.0	5.0	11.0	5.0						
28	13.0		11.0			5.0	5.0						
29		11.0		8.0	5.0	11.0	5.0						
30		11.0		8.0	5.0	11.0	5.0						
31						5.0	5.0						
NO.:	10	10	10	10	10	10	11	10	10	10	10	11	
MAX:	38.0	52.0	11.0	12.0	12.0	12.0	26.0	13.0	21.0	21.0	25.0	71.0	
MEAN:	20.90	24.90	7.20	6.60	9.10	7.90	11.27	10.80	13.50	13.80	19.00	32.18	
ANNUAL OBSERVATIONS:	122	ANNUAL MEAN:	14.88	ANNUAL MAX:	71.0	1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Mar. 21, 2007

(88101) PM2.5 - Local Conditions
SITE ID: 06-107-2002 FOC:1
COUNTY: (107) Tulare
CITY: (82954) Visalia
SITE ADDRESS: 310 N CHURCH ST, VISALIA
SITE COMMENTS: ARB SITE NUMBER 5400568. NEW SITE 7/79. SPM SO2. NO2 DATA FROM THIS SITE BEFORE 1/01. MONITOR COMMENTS: PM2.5 ANDERSON-300 SEQUENTIAL SAMPLER

CAS NUMBER:
LATITUDE: 36.332222
LONGITUDE: -119.290278
UTM ZONE: 11
UTM NORTHING: 4023031
UTM EASTING: 294430
ELEVATION-MSL: 0
PROBE HEIGHT: 5.7

STATE: (06) California
AOCR: (031) SAN JOAQUIN VALLEY
URBANIZED AREA: (8779) VISALIA, CA
LAND USE: COMMERCIAL
LOCATION SETTING: URBAN AND CENTER CITY

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE: 2

REPORT FOR: 2004

SUPPORT AGENCY: (0145) California Air Resources Board
MONITOR TYPE: SJAMS
COLLECTION AND ANALYSIS METHOD: MULTIPLE METHODS
REPORTING ORG: (0145) California Air Resources Board

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1	8.0		17.0			12.0	13.0	8.0	AG		26.0	60.0
2											16.0	
3		7.0		13.0	16.0			8.0		18.0		
4	25.0		23.0					11.0		18.0		
5						9.0	20.0		AG		24.0	AF
6		25.0		9.0	10.0				AF	19.0		
7	27.0		36.0			5.0	8.0	11.0		20.0		
8		26.0		28.0	7.0				16.0		28.0	13.0
9									16.0	AF		
10	27.0		36.0			9.0	12.0	AG			17.0	21.0
11		20.0		17.0	8.0				9.0	AF		15.0
12	27.0		39.0							14.0		
13						11.0	11.0	AF			31.0	17.0
14		27.0		8.0	8.0				11.0	22.0		
15	26.0		38.0									
16						14.0	8.0	AF			AF	26.0
17		13.0		8.0	5.0				6.0	11.0	40.0	
18												
19	38.0		18.0			10.0	7.0	AF			30.0	23.0
20									9.0	16.0		
21		12.0		8.0	7.0					25.0		
22	37.0		18.0			10.0	12.0	AF			19.0	35.0
23									AF	29.0		
24		54.0		12.0	8.0							
25			10.0			7.0	12.0	6.0			57.0	25.0
26												
27		6.0		15.0	15.0				9.0	8.0		
28											19.0	7.0
29	21.0		20.0			11.0	10.0	AG		AF		
30				10.0	9.0							
31	18.0		18.0					AG				
NO.:	11	9	11	10	10	10	10	7	7	11	11	10
MAX:	54.0	27.0	39.0	28.0	16.0	14.0	20.0	12.0	16.0	29.0	57.0	60.0
MEAN:	28.00	16.00	24.82	12.80	9.30	9.80	11.30	9.57	10.71	18.18	27.91	24.20
ANNUAL OBSERVATIONS:	117	ANNUAL MEAN:	17.50	ANNUAL MAX:	60.0							

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (*) indicates that the region has reviewed the value and does not concur with the qualifier.

Mar. 21, 2007
 CAS NUMBER: 36.332222
 LATITUDE: -118.290278
 LONGITUDE: 11
 UTM ZONE: 4023031
 UTM NORTHING: 294430
 UTM EASTING: 0
 ELEVATION-MSL: 5.7
 PROBE HEIGHT: 5.7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

STATE: (06) California
 AOC: (031) SAN JOAQUIN VALLEY
 URBANIZED AREA: (8779) VISALIA, CA
 LAND USE: COMMERCIAL
 URBAN AND CENTER CITY

(88101) PM2.5 - Local Conditions
 SITE ID: 06-107-2002 POC: 1
 COUNTY: (107) Tulare
 CITY: (82954) Visalia
 SITE ADDRESS: 310 N CHURCH ST, VISALIA
 SITE COMMENTS: ARE SITE NUMBER 5400568, NEW SITE 7/79, SPM 502, NO2 DATA FROM THIS SITE BEFORE 1/ LOCATION SETTING: URBAN AND CENTER CITY
 MONITOR COMMENTS: PM2.5 ANDERSON-300 SEQUENTIAL SAMPLER

SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: MULTIPLE METHODS
 REPORTING ORG: (0145) California Air Resources Board

REPORT FOR: 2005

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (1C)
 MIN DETECTABLE: 2

DAY	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1	6.0			8.0	9.0				16.0	15.0			
2			12.0					12.0			9.0	22.0	
3		29.0		5.0	17.0	11.0	14.0		8.0	9.0			
4	10.0			11.0				16.0					
5		46.0	18.0		6.0	14.0			13.0	18.0	22.0	54.0	
6				5.0	8.0			12.0					
7	AN		30.0				8.0				17.0	P 65.0	
8		36.0			5.0								
9	8.0			AF									
10			50.0					14.0		13.0			
11		AJ					AF						
12	AF		25.0	4.0	18.0	10.0	19.0	15.0	12.0	19.0	33.0	P 84.0	
13										AJ			
14		28.0											
15				23.0	6.0	9.0	25.0						
16	AF		26.0	14.0				17.0	11.0	13.0	49.0	54.0	
17													
18		14.0				8.0	18.0				44.0	7.0	
19	21.0			6.0	9.0				16.0	23.0			
20			5.0					15.0					
21		3.0				11.0	16.0				47.0	21.0	
22	18.0		3.0	22.0	13.0				19.0	34.0			
23			1.0					19.0					
24		23.0				10.0	17.0		14.0	16.0	P 79.0	24.0	
25	32.0			9.0	17.0 P								
26			AF					19.0			AJ	12.0	
27		22.0				10.0	17.0		17.0	18.0			
28	5.0												
29			7.0					AJ					
30						21.0	15.0				29.0	27.0	
31	20.0				14.0					35.0		AJ	
NO.:	8	8	10	11	11	10	10	9	10	11	9	10	
MAX:	32.0	46.0	50.0	23.0	18.0	21.0	25.0	19.0	19.0	35.0	79.0	84.0	
MEAN:	15.00	25.13	17.70	10.09	11.36	10.20	16.30	15.44	13.70	19.36	36.56	37.00	
ANNUAL OBSERVATIONS:	117	ANNUAL MEAN:	18.69	ANNUAL MAX:	84.0	3 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						3 Values marked with 'S' exceed the SECONDARY STANDARD of: 65	

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (***) indicates that the region has reviewed the value and does not concur with the qualifier.

(88101) PM2.5 - Local Conditions
 SITE ID: 06-107-2002 FOC: 1
 COUNTY: (107) Tulare
 CITY: (82994) Visalia
 SITE ADDRESS: 310 N CHURCH ST, VISALIA
 SITE COMMENTS: AFB SITE NUMBER 9400568. NEW SITE 7/79. SPM SO2. NO2 DATA FROM THIS SITE BEFORE 1. LOCATION SETTING: URBAN AND CENTER CITY
 MONITOR COMMENTS: PM2.5 ANDERSON-300 SEQUENTIAL SAMPLER
 SUPPORT AGENCY: (0145) California Air Resources Board
 MONITOR TYPE: SLAMS
 COLLECTION AND ANALYSIS METHOD: MULTIPLE METHODS
 REPORTING ORG: (0145) California Air Resources Board

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Mar. 21, 2007
 CAS NUMBER: 36.33222
 LATITUDE: -119.290278
 LONGITUDE: 11
 UTM ZONE: 402301
 UTM NORTHING: 294430
 UTM EASTING: 0
 ELEVATION-MSL: 5.7
 PROBE HEIGHT: 5.7

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: 2

REPORT FOR: 2006

MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1		31.0		7.0	16.0	13.0	12.0		16.0	33.0	44.0	AF		
2	2.0		5.0					20.0						
3		32.0		2.0	AJ	10.0	23.0		15.0	18.0	18.0	28.0 Y		
4	29.0		9.0					12.0		16.0		50.0		
5		32.0		4.0	18.0	10.0	11.0		16.0	22.0	47.0	AJ		
6	30.0		18.0					AN						
7		49.0		8.0	21.0	13.0	15.0	14.0	16.0	14.0	21.0	6.0		
8	31.0		6.0					AN						
9		P 65.0		14.0	16.0	6.0	19.0		15.0	19.0	21.0	21.0		
10	11.0		10.0					12.0	15.0	12.0				
11		14.0		3.0	20.0	14.0	18.0		15.0	12.0	40.0	12.0		
12	25.0		11.0					16.0						
13	11.0		7.0						15.0	21.0	27.0	30.0		
14		5.0		14.0	9.0	9.0	17.0		15.0					
15	30.0		20.0					15.0			57.0	29.0		
16		24.0		7.0	10.0	18.0	19.0		AJ	25.0				
17	34.0		20.0					14.0						
18		29.0		18.0	AJ	20.0	20.0		16.0	18.0	22.0	42.0		
19	14.0		15.0					14.0						
20		4.0		23.0	10.0	14.0	11.0		36.0	26.0	10.0	13.0		
21	21.0		AJ					15.0						
22		11		10	8	7.0	7.0					45.0		
23	NO.:	11	10	9	10	10	11	10	9	11	10	10		
24	MAX:	34.0	65.0	20.0	23.0	20.0	23.0	20.0	36.0	33.0	57.0	50.0		
25	MEAN:	21.64	28.50	11.22	10.00	12.70	15.64	14.40	17.78	20.36	30.70	27.60		
26	ANNUAL OBSERVATIONS:	119	ANNUAL MEAN:	18.94	ANNUAL MAX:	65.0	1 Values marked with 'P' exceed the PRIMARY STANDARD of: 65						1 Values marked with 'S' exceed the SECONDARY STANDARD of: 65	

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT
 Mar. 21, 2007

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
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QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
1	Deviation from a CFR/Critical Criteria Requirement	QA
5	Outlier	QA
AF	SCHEDULED BUT NOT COLLECTED	NULL
AG	SAMPLE TIME OUT OF LIMITS	NULL
AH	SAMPLE FLOW RATE OUT OF LIMITS	NULL
AI	INSUFFICIENT DATA (CANNOT CALCULATE)	NULL
AJ	FILTER DAMAGE	NULL
AK	FILTER LEAK	NULL
AL	VOIDED BY OPERATOR	NULL
AM	MISCELLANEOUS VOID	NULL
AN	MACHINE MALFUNCTION	NULL
AQ	COLLECTION ERROR	NULL
AR	LAB ERROR	NULL
AS	POOR QUALITY ASSURANCE RESULTS	NULL
AU	MONITORING WAIVED	NULL
AV	POWER FAILURE (POWER)	NULL
AZ	Q C AUDIT (AUDIT)	NULL
BA	MAINTENANCE/ROUTINE REPAIRS	NULL
BE	BUILDING/SITE REPAIR	NULL
T	Multiple PM2.5 Validity Flags	QA
W	FLOW RATE AVERAGE OUT OF SPEC.	QA
X	FILTER TEMPERATURE DIFFERENCE OUT OF SPEC.	QA
Y	ELAPSED SAMPLE TIME OUT OF SPEC.	QA
a	HIGH WINDS	NAT
e	FOREST FIRE	NAT
j	CONSTRUCTION/DEMOLITION	EX
p	ROOFING OPERATIONS	EX
q	PRESCRIBED BURNING	EX

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional concurrence are shown in lower case.

UNITES STATES ENVIRONMENTAL PROTECTION AGENCY

RAW DATA REPORT

Mar. 21, 2007

User ID: IJN
 Report Request ID: 415418
 Report Code: AMF350

Tribal	State	County	Site	Parameter	POC	City	AQCR	UAR	MSA	CMSA	Region	Method	Duration	Begin Date	End Date
											EPA				

GEOGRAPHIC SELECTIONS

031

PROTOCOL SELECTIONS			
Parameter Classification	Parameter	Method	Duration
CRITERIA	88101		

SELECTED OPTIONS			SORT ORDER	
Option Type	Option Value	Order	Column	
MERGE PDF FILES	YES	1	STATE_CODE	
RAW DATA EVENTS	INCLUDE EVENTS	2	COUNTY_CODE	
INCLUDE NULLS	YES	3	SITE_ID	
DAILY STATISTICS	MAXIMUM	4	PARAMETER_CODE	
UNITS	STANDARD	5	POC	

GLOBAL DATES	
Start Date	End Date
1999 01 01	2006 12 31