

Air Quality Trends in the Southwest Forum

PM₁₀ Stakeholders Process
in Pinal County

June 22, 2007

Kale Walch, Field Services Manger
Scott DiBiase, Planning Manager

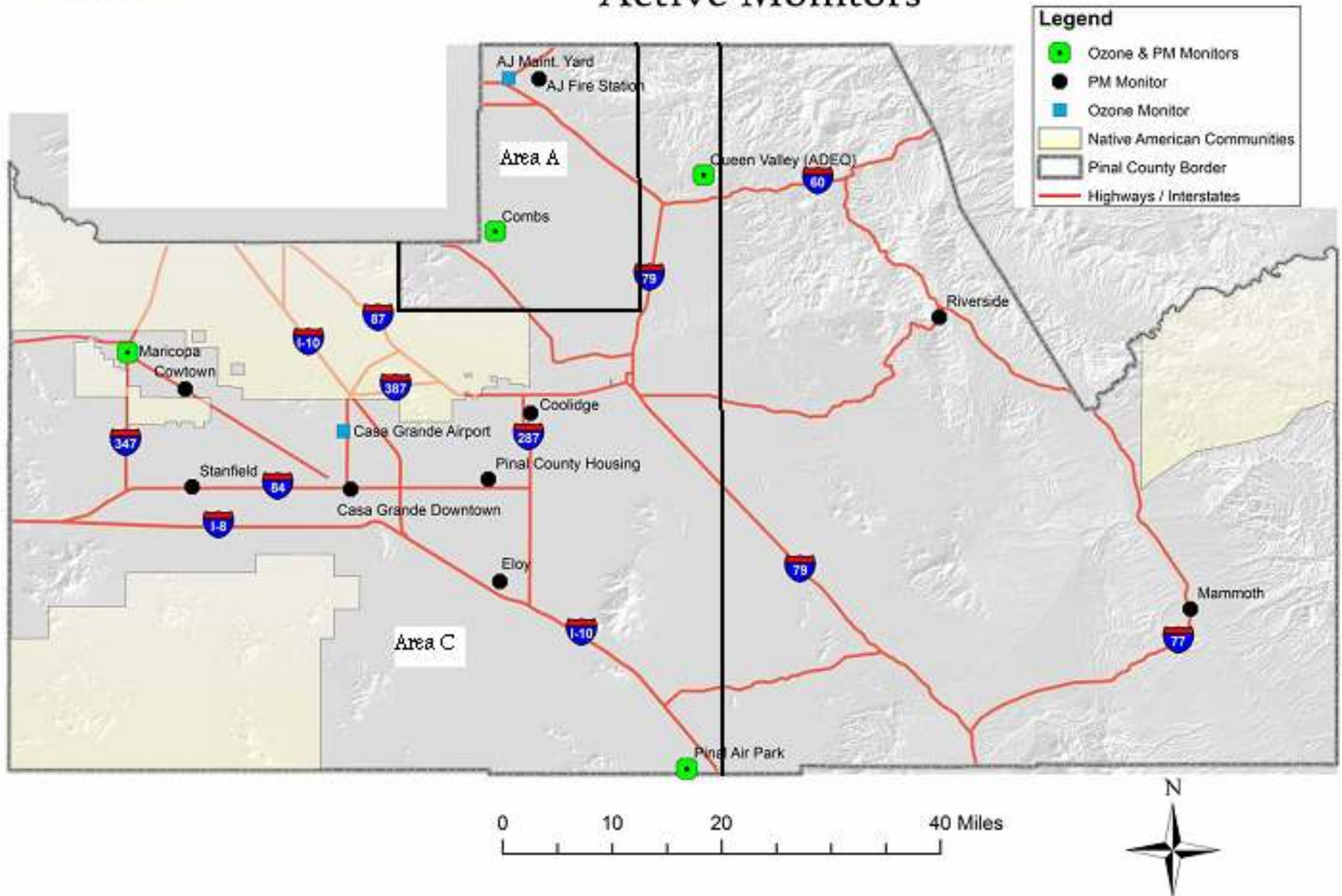




Pinal County Air Quality Control District

Ambient Air Quality Monitoring Network

Active Monitors



PINAL COUNTY HOUSING COMPLEX PM ₁₀ 2006 TEOM Data												
24 Hour Averages (ug/m ³)												
	January	February	March	April	May	June	July	August	September	October	November	December
1	48.9	90.0	65.7	51.3	69.4	94.1		30.9	69.1	77.4	123.5	131.7
2	90.1		70.6	51.1	63.7	151.3 ^A		34.4	43.2	60.1	99.8	143.6
3	105.8	116.0		87.7	62.0	94.8		62.7	11.3	80.6	124.5	296.2
4		204.1	77.2	62.0	94.5	70.6	45.2		7.5	74.8	109.1	119.6
5	190.8	104.9	90.9	78.5	63.5	69.9	374.7	42.7	17.7	90.1	91.1	123.4
6	73.1	363.3	109.4	43.9		A	28.4	50.7	14.5	51.8	123.4	125.0
7	156.2	109.0	113.0	62.4			44.6	34.4	14.0	56.2	127.0	141.9
8	72.6	149.8	175.5	90.2		21.9		93.5	10.8	60.1	127.3	
9	118.2	220.5	48.3	80.5		29.8		50.7	26.2	29.0		73.5
10	140.1	100.4	145.2 ^A	55.1		34.3	69.8	73.5	28.0	36.3	117.2	81.3
11	142.1	119.8	121.0	39.4	91.6	53.1		68.3	48.0	37.7	122.0	97.6
12	164.4	109.3	6.4	99.7	98.5	81.7		16.0	34.0		78.3	168.2
13	146.0	144.0	9.3		49.7	77.0	76.2	20.8	19.0	59.8	156.5	156.7
14	140.8	149.3	24.3	551.9 ^A	61.7	69.6	63.8	36.9	33.9	37.8	101.5	174.2
15	68.7	431.9	24.3	74.9	98.9	95.8	159.0	12.3		47.1	130.2	183.0
16	60.2			63.7	340.2	60.0	268.5	20.9	35.1	33.8	136.0	205.0
17	107.5	161.1	30.0	46.3	202.4	63.8	62.0	29.2	59.8	47.6	244.4	46.8
18	169.8	167.3	21.0	77.6	61.0	82.0	189.9	45.0	53.2	41.3	134.5	47.9
19	176.7	85.2	15.9	76.0	68.2	77.0	66.9	32.6	57.7		96.0	41.2
20		84.8	9.7	65.2	53.6		50.1	33.1	56.1	74.3	79.7	48.7
21	112.9	113.2	20.2	93.9	68.5	94.0	86.0	105.5	51.0	83.4		
22	89.9	89.6	14.9	67.9		55.6	75.4	17.3	57.4	72.1	150.4	
23	132.2	102.4	19.6	40.8		99.6	111.1	22.5	48.9	66.4	94.2	8.1
24	109.7	108.9	42.0	53.5		108.4	82.2	35.8	47.0		124.6	13.4
25	178.0	98.2	36.1	87.8	65.1	761.4 ^A	240.3	23.1	66.6		82.0	
26	115.0	90.1	40.4	68.1	57.6	112.2		31.2	68.2	67.9	50.7	33.1
27	98.4	103.1	40.6	47.0	84.2	104.8		41.2	62.1	91.6	80.7	91.4
28	64.0	127.1	30.3	39.5	67.0	48.3	10.1	73.1		73.1	74.5	25.5
29	79.0		35.8	55.7	91.9	97.9	20.5	44.7	102.6	61.8	257.6	12.9
30	88.2		34.0	71.8	104.3	62.9	14.6	76.5	83.0	66.4	79.6	14.8
31	138.9				87.3		16.7			90.6		
	1st quarter average		103.02	2nd quarter average		76.26	3rd quarter average		58.75	4th quarter average		93.70
	# of valid samples		82	# of valid samples		76	# of valid samples		79	# of valid samples		81
	% of samples collected		91.11%	% of samples collected		83.52%	% of samples collected		85.87%	% of samples collected		88.04%
	# of 24 hr exceedances		13	# of 24 hr exceedances		2	# of 24 hr exceedances		5	# of 24 hr exceedances		9

STANFIELD COUNTY COMPLEX PM₁₀ 2006 TEOM DATA

24 Hour Averages (ug/m³)

	January	February	March	April	May	June	July	August	September	October	November	December
1		103.2	77.5	22.0	85.5	152.8	103.9		57.1	90.7	101.3	110.2
2		115.7		50.1	83.9	141.1 ^A	66.3	46.9	77.6	77.4	150.9	123.2
3		109.2	60.6	55.2	64.0	87.8	61.8	96.1	30.7	92.5	115.3	154.1
4		107.3	103.2	48.8	67.3	164.7	69.2		16.9	79.2	128.0	226.1
5		132.7	77.6	66.4	42.4	93.3	40.6		41.1	117.2	93.2	135.3
6		192.9	72.0	37.9	69.1	226.5 ^A	32.3		52.1	153.6	160.5	124.8
7		137.5	86.7	96.9	101.3		49.0			91.2	136.8	106.9
8		132.6	114.4	64.2			39.7	65.2		64.0	115.8	
9		155.9	43.6	60.9	130.9	25.6	45.0		25.5	119.3		85.8
10		50.6	^A			34.7	45.5		23.8	75.8	92.7	73.0
11		90.8	23.3	57.5	92.8	25.0	72.4		43.9	102.3	87.1	75.5
12		157.7	8.6	74.6	67.5	83.4	55.2	14.3	105.6	112.8	78.9	83.9
13		105.4	14.8	122.0	91.2	53.9	67.4	33.8	36.8		105.8	147.4
14		106.6	21.8	725.0 ^A	60.4	110.4	60.8	40.0	54.2	26.5	96.1	156.5
15		247.7	22.2	119.5 ^A	118.3	85.4	240.6	25.4		48.4	152.5	164.7
16		83.6	35.2	53.7	212.4	59.0		31.2	52.3	43.9		198.4
17				43.5	100.8	95.3	46.0	76.2	74.3	53.9		57.5
18		62.2	21.8	76.6	134.6	98.3		58.3	94.1	112.2	102.1	47.1
19		58.6	13.1	76.7	87.1	81.5	62.8		90.3	163.0	131.9	66.9
20		59.9	13.9	83.3	107.7		62.7	51.2	93.0	93.9	96.9	44.2
21		50.4	24.8	56.6	156.6	70.9	89.8	131.2	96.4	99.7	143.3	
22		59.5	19.2	82.0	^A	63.3	106.4	25.6	72.6	135.1	99.1	110.5
23		70.2	40.5	47.3			83.9	38.9	77.3	108.6	86.6	22.6
24			38.5	47.2	77.8	131.0	98.8		80.4	61.9		35.4
25		74.8	21.5	108.8	75.9	471.8 ^A		21.3	109.1		60.0	34.5
26		85.7	35.8		46.1	168.1	23.5	32.9	95.3		49.0	67.2
27		93.4	42.6	76.8	105.7	89.7	22.0	48.4	77.3		49.1	165.5
28		115.1		34.1	77.2	54.2	20.0	72.7	107.9	89.4	43.5	44.3
29				55.6	79.9	71.8	21.3	71.8		76.3		14.6
30			23.9	102.5	114.9	115.0	26.1	58.7	140.1	74.3		16.7
31			24.0		156.5		26.9	55.2		98.5		17.1
	1st quarter average		73.85	2nd quarter average		83.21	3rd quarter average		62.15	4th quarter average		95.60
	# of valid samples		52	# of valid samples		76	# of valid samples		75	# of valid samples		80
	% of samples collected		57.78%	% of samples collected		83.52%	% of samples collected		81.52%	% of samples collected		86.96%
	# of 24 hr exceedances		4	# of 24 hr exceedances		5	# of 24 hr exceedances		1	# of 24 hr exceedances		7

CITY OF MARICOPA PM₁₀ 2006 TEOM Data

24 Hour Averages (ug/m³)

	January	February	March	April	May	June	July	August	September	October	November	December
1	49.5	89.1	50.9	24.2	58.6	111.2	148.8	37.3	48.8	82.8	97.5	95.1
2	64.9	106.7		23.6	63.2	233.6 ^A	52.3	56.9	121.5	113.1	108.1	92.7
3	49.0	134.9	68.0	51.4	79.0	84.7	55.9		18.6	117.7	134.0	41.2
4	88.2	99.1	56.7	67.0	66.9	62.8	61.6	50.1	17.8	110.3	83.0	57.8
5	92.7	77.5	54.9	95.5	60.5	66.9		43.0	39.9	159.3	69.1	94.9
6	99.9	93.0		33.0	45.0	A		41.4	37.2		115.2	131.3
7	61.1	108.2	136.8	60.8	35.1	88.9		80.9	28.0	66.1	131.0	110.4
8	52.6	132.7	198.3	62.1	53.5	38.6	32.7		24.8	77.5	116.9	
9	90.2		50.5	43.3	61.7	51.0	42.8	47.5	49.3	33.6	90.8	59.1
10	84.9	63.0	285.5 ^A	47.2	70.5	44.3	72.9	60.1	26.1	53.3	86.2	98.6
11	124.9	57.8	19.3	40.1	78.5	43.3	70.4	42.9	61.7	76.7	86.1	90.1
12		43.7	12.5	60.5	65.4	101.8	55.1	14.7			48.0	84.1
13	174.8	127.5	21.9	89.2	42.0	90.6	75.0	25.4	41.2	90.1	115.8	107.0
14	118.2	131.5	24.7	321.7 ^A	45.5	60.2	67.0	97.4	58.6	25.2	83.2	140.8
15	59.4	389.6	40.9	146.3 ^A	79.9	103.5	203.4	30.9	51.3	34.9	85.4	158.2
16	80.0	68.0	46.5	41.1	193.0	55.2	118.4	52.4	41.9	45.1		207.9
17	117.1	99.0	41.4	74.0	115.0	58.0	48.5	72.3	43.1	40.3		38.1
18	145.3	58.9	31.7	42.8	79.7	49.5		77.3	77.4	69.0	156.6	46.5
19	195.6	35.3	14.5		48.5	64.5	72.4	55.3	97.5	49.8	80.1	62.7
20	69.8	63.2	15.4	59.4	41.6	109.9	69.9	48.1	101.6	97.7	100.1	53.5
21	53.1	53.1	24.1	92.6	95.1	78.4	94.6	220.6		82.8	112.3	74.3
22	53.2	60.5	18.1	85.6	171.5 ^A	84.7	72.8	23.4	77.6	73.6	171.6	70.1
23	93.6	82.2	31.1	36.5	47.1			46.2	43.4	97.6	91.6	45.2
24	76.7	93.7	38.9	34.3	52.3	202.8	96.9		38.1		82.7	34.9
25	98.3	105.9	31.2	68.3		333.6 ^A	127.6	44.9	70.1	32.2	70.9	40.3
26	89.6	96.6	25.2		98.5	429.8	25.5	34.9	108.7	48.1	47.1	61.1
27	118.0	118.9	24.2	114.7	84.8	103.5	26.9	39.4	72.7	73.9	78.6	148.8
28	60.5	115.0	33.1	38.7	49.5	71.6	45.2	82.4		95.3	53.0	43.5
29	71.2			39.1	59.5	89.9	23.8	78.9	146.2	97.4	251.1	20.9
30	123.6		31.0	46.2	73.0	107.2	32.2	75.2	83.7	85.7	47.1	23.5
31	120.6		37.7		99.7		39.2	56.5		82.8		26.0
	1st quarter average		79.29	2nd quarter average		73.66	3rd quarter average		62.90	4th quarter average		84.46
	# of valid samples		84	# of valid samples		81	# of valid samples		81	# of valid samples		86
	% of samples collected		93.33%	% of samples collected		89.01%	% of samples collected		88.04%	% of samples collected		93.48%
	# of 24 hr exceedances		4	# of 24 hr exceedances		3	# of 24 hr exceedances		2	# of 24 hr exceedances		6

COWTOWN 1400ab PM₁₀ 2006 TEOM Data

24 Hour Averages (ug/m³)

	January	February	March	April	May	June	July	August	September	October	November	December
1	76.1	160.7	109.1	111.5	226.0	221.3	211.5	84.9	210.9	456.1	315.9	289.1
2	151.2	171.3	138.1	84.2	AI	461.3 ^A	157.1	154.3	170.5	438.5	333.3	302.4
3	188.9	354.5	187.4	157.8	BA	312.5	208.7	AX	14.6	240.3	AT	58.9
4	260.6	196.9	249.1	138.4	AN	256.0	146.7	59.2	25.7	402.8	343.9	183.5
5	BA	132.2	182.9	173.1	AN	349.2	144.2	178.2	53.8	254.2	402.6	418.1
6	282.4	152.9	301.4	118.4	AN	AV ^A	AT	166.6	92.2	BA	540.5	531.4
7	286.6	184.1	468.1	136.1	AN	AV	113.8	146.9	BA	172.3	641.0	271.9
8	288.8	352.1	AV	250.1	AN	AT	65.6	99.7	43.2	205.8	393.2	AT
9	311.6	316.2	207.4	285.6	AX	218.2	161.1	AI	45.3	251.3	285.8	320.3
10	305.8	AT	AT ^A	346.4	209.6	139.2	226.0	115.8	63.7	174.1	373.7	202.4
11	344.3	160.1	AV	155.0	245.6	208.9	224.4	83.0	157.0	263.8	294.4	336.8
12	249.7	430.5	AI	106.4	353.6	164.7	169.8	13.1	AT	AT	260.7	237.3
13	AT	443.9	AI	198.6	248.2	284.4	226.3	42.7	236.6	213.4	326.3	230.2
14	240.9	354.1	36.4	448.4 ^A	238.9	317.0	253.0	85.3	145.2	88.3	180.9	260.2
15	130.1	375.6	49.5	323.7 ^A	279.8	213.3	275.1	59.0	151.5	174.4	AZ	296.5
16	121.1	130.2	75.8	135.4	427.1	515.3	151.6	108.1	171.2	204.5	BA	258.3
17	294.8	128.4	73.7	BA	209.5	304.0	71.2	AT	503.6	194.3	433.0	AI
18	264.3	218.6	56.8	370.3	237.5	294.2	200.3	224.0	394.9	322.0	473.4	137.7
19	306.2	139.3	16.9	328.6	307.6	297.4	90.4	200.9	353.1	AI	252.4	110.7
20	BA	121.7	9.6	353.0	348.1	323.4	AT	114.6	277.4	765.4	319.2	102.3
21	204.0	137.3	28.3	510.5	279.2	245.4	167.8	356.1	796.4	481.9	492.1	92.5
22	159.5	387.5	14.2	324.8	479.8 ^A	295.5	178.1	AI	246.4	359.1	436.2	AX
23	183.4	377.4	21.1	159.3	453.9	AT	131.3	64.7	174.5	486.0	290.3	19.9
24	129.6	AN	61.2	240.1	661.7	260.9	141.6	AV	97.1	AX	AX	25.7
25	214.6	AN	55.8	148.0	AT	353.6 ^A	321.9	BA	679.0	62.9	150.6	38.0
26	249.1	AN	46.1	AT	317.2	427.0	AI	58.5	314.4	113.1	166.8	91.9
27	228.1	AN	44.3	240.0	333.2	136.9	28.7	65.6	358.2	273.8	225.2	197.7
28	275.5	AN	46.2	216.4	265.7	202.4	42.6	118.6	AX	339.8	128.6	53.8
29	143.3		AT	129.3	292.5	207.9	56.8	162.1	1050.8	372.4	472.3	17.2
30	273.8		57.8	394.1	314.6	BA	24.9	136.8	515.3	253.4	96.4	16.7
31	292.8		129.4		260.7		107.1	120.0		197.3		15.4
	1st quarter average		193.99	2nd quarter average		264.52	3rd quarter average		183.24	4th quarter average		265.51
	# of valid samples		75	# of valid samples		70	# of valid samples		80	# of valid samples		81
	% of samples collected		83.33%	% of samples collected		76.92%	% of samples collected		86.96%	% of samples collected		88.04%
	# of 24 hr exceedances		43	# of 24 hr exceedances		59	# of 24 hr exceedances		37	# of 24 hr exceedances		62

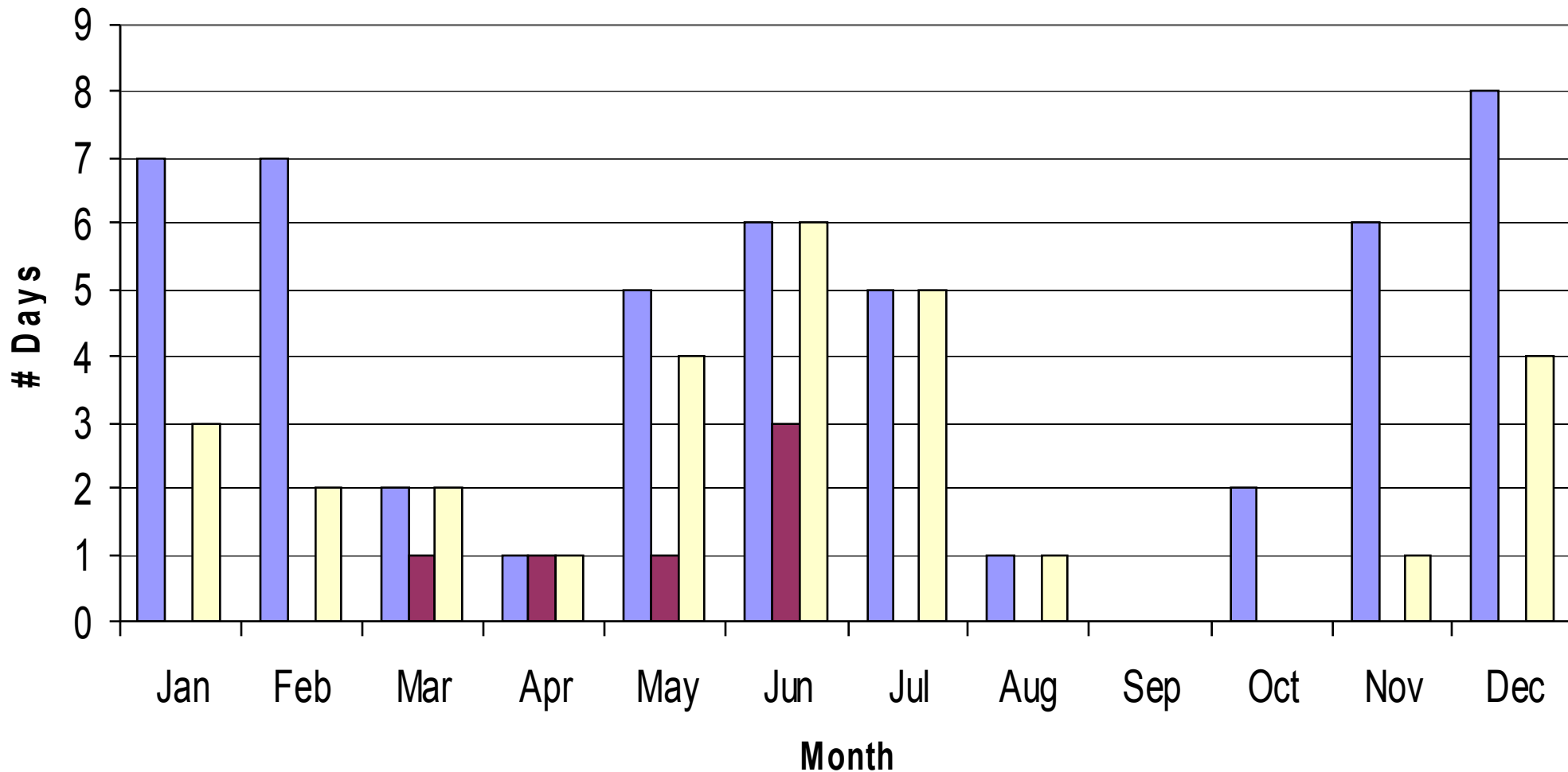
COMBS ELEMENTARY SCHOOL PM₁₀ 2007 TEOM Data

24 Hour Averages (ug/m³)

	January	February	March	April	May	June	July	August	September	October	November	December
1				44.1	AV	68.6						
2				75.3	58.1	64.6						
3				93.8	AX	59.7						
4				91.7	118.2	104.0						
5				104.1	89.3	112.6						
6				58.3	32.1	348.1						
7				50.1	65.7	105.0						
8				71.3	313.9	107.7						
9				78.3	68.2	67.5						
10				73.1	86.5	45.5						
11				104.4	83.7	231.2						
12				154.7	73.2							
13				43.0	58.2							
14				24.2	116.4							
15				56.7	106.1							
16				63.5	AT							
17				AT	69.9							
18				95.4	78.7							
19				84.3	46.5							
20			81.1	89.7	59.5							
21			265.0	21.0	97.8							
22			AV	16.8	114.6							
23			9.3	33.7	100.4							
24			11.7	57.9	103.5							
25			14.1	57.9	84.5							
26			AT	76.8	54.3							
27			164.7	79.3	40.1							
28			AV	AV	37.7							
29			44.8	AV	98.3							
30			31.7	63.8	82.7							
31			41.8		91.7							
	1st quarter average		73.80	2nd quarter average		84.96	3rd quarter average		#DIV/0!	4th quarter average		#DIV/0!
	# of valid samples		9	# of valid samples		66	# of valid samples		0	# of valid samples		0
	% of samples collected		10.00%	% of samples collected		72.53%	% of samples collected		0.00%	% of samples collected		0.00%
	# of 24 hr exceedances		2	# of 24 hr exceedances		4	# of 24 hr exceedances		0	# of 24 hr exceedances		0



2006 PM₁₀ 24-hr Exceedances* by Month



■ # Exceedance Days ■ ADEQ NEAPS ■ Classified as wind

* Excludes Cowtown

Pinal County Air Quality Planning – Pinal County PM₁₀ Stakeholder Process

- Process started today and will continue with meetings every other week, lasting into the fall.
- Hope to get all the “players” in the PM₁₀ ballgame.
- The meetings are addressing EPA’s 4/20/07 letter to ADEQ and taking one of their suggestions to hopefully bring the area into attainment prior to any nonattainment designations.



Pinal County Air Quality Planning (Cont.)

- Trying to plan ahead for possible SIP activities (i.e. emissions inventory, modeling, control measures, etc.).
- The usual staffing and funding issues.
- If you're interested in joining the stakeholders process, contact me or Kale at (520)866-6929.



Contact Information

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