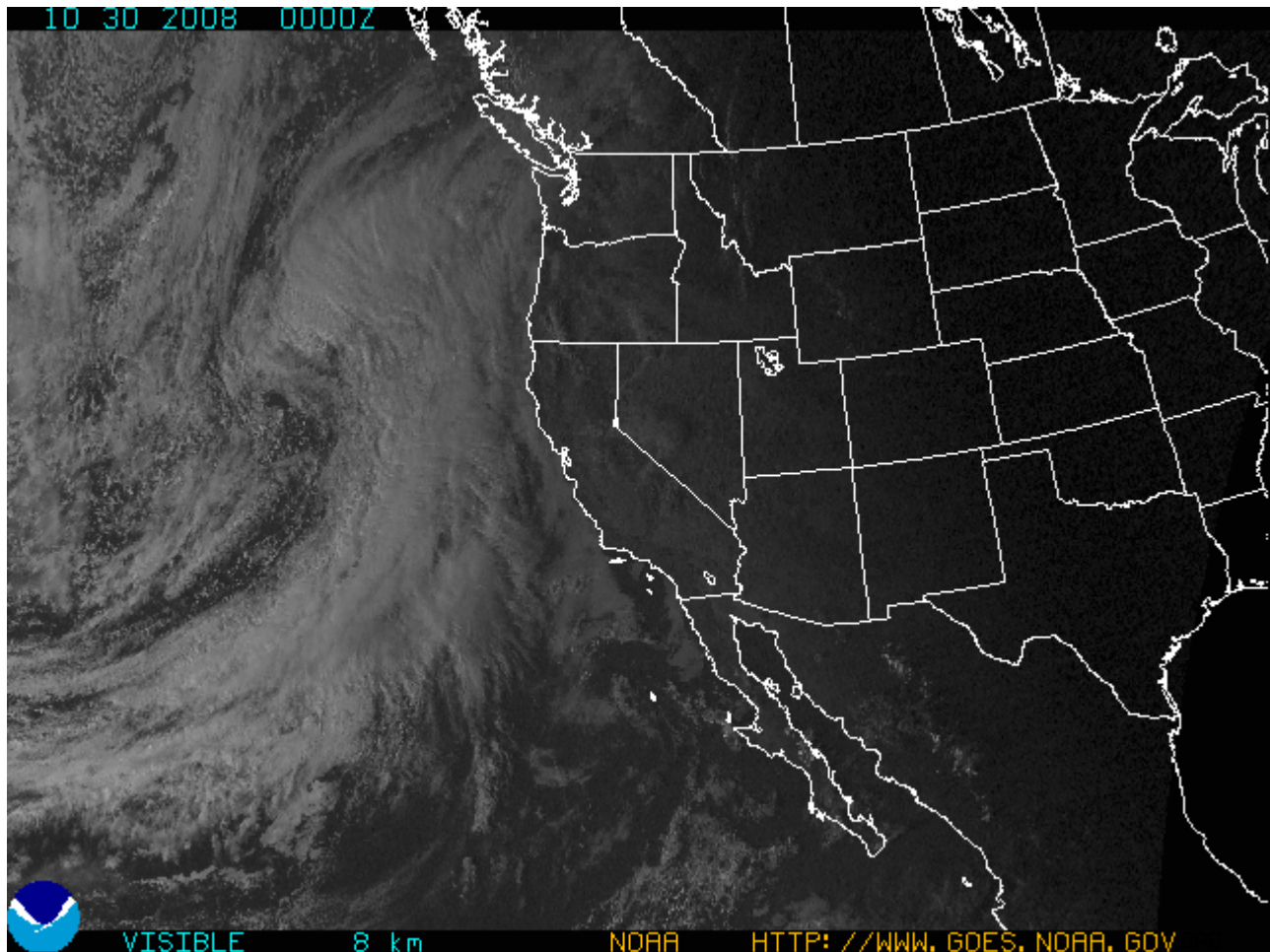


**Sacramento Valley Air Basin Smoke Management Program
Analyses of October 30, 2008**

The 2008 fall burning season commenced on September 15 and compared to the previous fall was similar in weather and air quality conditions and the amount of burning conducted. However in 2008, due to a lack of water for flooding rice fields after harvest, which helps decompose the straw, a restriction (Tier 91) has been placed on water allotments. At the request of the rice industry, air districts and the Air Resources Board (ARB) were requested to allow increased burning to offset the water restriction.

Rice harvesting was delayed in 2008 and minimal burning was accomplished in September. Also there were 17 days in October that had reduced acreage allocations and burning due to adverse weather conditions. The first significant fall storm with improved dispersion was forecast to occur on October 30.

The day began with light northerly drainage winds at the surface, increasing low clouds and overcast skies. Moderate wind atop the Sutter Buttes (2100 feet) was consistently from the south. Both the Western Weather Group and Air Resources Board meteorologists commented on an impressive looking weather system looming just offshore (see satellite image below).



Initial comments in the daily, fall Smoke Management Program files at 9:00 a.m. cautioned that, although the storm was approaching, conditions for agricultural burning were marginal.

"Colusa, Shasta and Tehama reduced because of high PM2.5 numbers. Smoke reported around Valley, Northerly drainage winds this morning. Overcast sky will limit plume rise. Spread fires out. Do observations. May have updates and extended hours IF burning managed properly."

"The 10am PM2.5 numbers are getting worse. Smoke from early fires cannot be lifting well. Burn only small fields in remote areas. Today is not a great burn day. Winds are still light and overcast conditions make for poor smoke dispersion."

"CAUTIONARY NOTES: Best to delay the bulk of any burning until south winds develop in your area (likely to occur sometime between 11am-1pm). Otherwise avoid concentrating fires in any one locations or time period as mixing layer expansion, though much improved over the recent past, will be short of ideal."

"REVISED CAUTIONARY NOTES: Slower than expected breakup of low level inversion and a delay in the shift to south winds, will leave most of the valley with only a modest expansion of the mixing layer between now and the mid afternoon. Thus best to keep fires small and located well away from populated areas."

"A fairly impressive system just off shore with showers starting along the north coast. The showers won't reach the valley until this evening. Winds starting with light and variable northerly drainage winds 3-5mph, then becoming southerly 5-15mph as the front approaches in the mid aftn."

After discussions at 11:15 a.m. with the Air Resources Board meteorologists a modest update of 1,000 acres was provided and more importantly and extension of burn ignition hours to 5:00 p.m. was granted. Because the development of south winds was later than expected the extended burn hours would allow burning to be spread over a longer time period.

The data presented below are from five automatic meteorological observation stations (AMOS) in the Valley. The first is the centrally located Sutter Buttes site and the others cover north, south, east and west locations (Chico State Farm, Artois, Lincoln and Kirkville). The wind data illustrate a decoupling of the surface winds (northerly) from the upper level Buttes winds (southerly).

Station: Sutter Buttes - Hourly Observations Month: October, 2008

Date	PST	Temp F	Wind Dir	2min Wind mph	2min 10min Gust mph	Hourly			Max Daily Temp F	Daily Max Temp F
						Wind Dir	Wind mph	Wind Gust		
10/30/08 0000		63.5	SSE	20.2	28.9	SSE	19.0	29.1	62.8	73.1
10/30/08 0100		62.5	SSE	21.8	25.4	SSE	19.2	26.3	62.5	64.4
10/30/08 0200		62.9	SSE	22.3	25.4	SSE	22.6	25.4	62.1	64.4
10/30/08 0300		63.0	SSE	21.5	23.9	SSE	21.9	25.9	62.1	64.4
10/30/08 0400		62.1	SSE	15.3	21.3	SSE	17.4	24.6	62.0	64.4
10/30/08 0500		62.2	SSE	15.4	17.3	SSE	16.5	20.8	62.0	64.4
10/30/08 0600		63.8	SSE	15.2	16.0	SSE	15.9	18.2	62.0	64.4
10/30/08 0700		63.2	S	11.9	12.5	SSE	12.7	16.0	62.0	64.4
10/30/08 0800		64.8	ESE	9.1	10.7	SSE	10.0	12.7	62.0	64.9
10/30/08 0900		64.9	SSW	3.7	6.4	ESE	6.4	11.4	62.0	65.0
10/30/08 1000		65.5	NNE	2.2	5.3	ENE	5.6	14.3	61.9	65.8
10/30/08 1100		66.1	SW	5.3	9.6	SW	4.7	12.9	61.9	66.2
10/30/08 1200		65.3	ENE	2.5	7.9	SSE	4.4	12.9	61.9	66.9
10/30/08 1300		64.0	S	7.5	16.9	ENE	5.3	16.9	61.3	66.9
10/30/08 1400		64.5	S	3.8	13.6	SSW	5.8	14.7	61.3	66.9
10/30/08 1500		62.6	S	9.7	15.8	SW	7.3	15.8	61.3	66.9

10/30/08 1600	58.1	WSW	18.2	25.9	SW	13.4	25.9	57.2	66.9
10/30/08 1700	54.7	SSW	19.5	23.9	SW	17.4	27.2	54.5	66.9
10/30/08 1800	57.0	SE	25.4	28.3	S	18.2	28.3	52.6	66.9
10/30/08 1900	56.7	ESE	29.0	38.4	SE	31.9	44.7	52.6	66.9
10/30/08 2000	56.3	E	21.5	37.9	E	29.5	44.5	52.6	66.9
10/30/08 2100	57.4	ESE	21.6	30.3	ESE	15.8	30.3	52.6	66.9
10/30/08 2200	57.3	SSE	20.5	25.9	SE	24.2	37.7	52.6	66.9
10/30/08 2300	54.5	SSW	23.0	27.6	S	17.5	29.6	52.6	66.9

Station: Chico State Farm - Hourly Observations Month: October, 2008

Date	PST	Temp F	Dew Pt F	RH %	Hourly						Max Wind Gust /m2	SolRad Watts /m2	Prec In	Daily Prec In	Daily MinT F	Daily MaxT F
					2min Wind Dir	2min Wind mph	10min Wind mph	Hourly Wind Dir	Hourly Wind mph	Hourly Wind Gust						
10/30/08 0000		60.6	38.3	43	E	4.0	6.4	ESE	5.4	9.6	0	0.00	0.00	43.7	79.4	
10/30/08 0100		57.2	38.5	50	SE	1.8	3.3	E	2.3	8.8	0	0.00	0.00	57.0	61.2	
10/30/08 0200		54.3	41.0	60	ENE	2.1	3.3	ESE	2.2	4.8	0	0.00	0.00	53.5	61.2	
10/30/08 0300		54.2	41.2	62	NW	2.2	4.8	NW	2.0	5.9	0	0.00	0.00	53.5	61.2	
10/30/08 0400		52.1	41.3	66	N	0.0	1.3	NW	1.4	3.5	0	0.00	0.00	52.0	61.2	
10/30/08 0500		54.3	39.6	57	NNW	3.5	6.4	NNW	2.3	6.4	0	0.00	0.00	51.5	61.2	
10/30/08 0600		52.6	40.2	62	NW	2.2	3.3	NNW	1.9	4.6	0	0.00	0.00	51.5	61.2	
10/30/08 0700		52.8	40.2	62	NNW	2.7	4.4	NNW	1.9	4.4	2	0.00	0.00	51.5	61.2	
10/30/08 0800		56.0	40.7	56	NW	1.8	2.9	NW	2.0	4.8	63	0.00	0.00	51.5	61.2	
10/30/08 0900		59.9	40.7	49	NNW	2.9	5.5	NNW	2.9	7.7	94	0.00	0.00	51.5	61.2	
10/30/08 1000		59.8	42.1	53	NNW	3.8	6.6	NW	2.1	6.6	87	0.00	0.00	51.5	61.3	
10/30/08 1100		61.4	42.6	50	W	2.2	5.3	NW	2.7	9.4	106	0.00	0.00	51.5	62.3	
10/30/08 1200		61.9	43.8	51	N	2.9	6.8	NW	2.2	6.8	100	0.00	0.00	51.5	62.3	
10/30/08 1300		64.4	42.8	45	NNE	2.6	6.1	N	3.2	11.2	100	0.00	0.00	51.5	64.4	
10/30/08 1400		65.7	43.4	44	ESE	2.0	3.3	WSW	2.2	6.1	110	0.00	0.00	51.5	65.9	
10/30/08 1500		66.2	45.6	48	SSE	4.4	6.6	SSE	3.5	7.9	106	0.00	0.00	51.5	66.9	
10/30/08 1600		63.9	46.9	54	S	3.1	6.8	SSW	3.9	9.4	22	0.00	0.00	51.5	66.9	
10/30/08 1700		61.3	49.3	64	SSW	3.6	5.3	SW	1.8	5.5	6	0.00	0.00	51.5	66.9	
10/30/08 1800		58.5	53.7	84	ENE	4.1	5.0	S	3.1	10.7	0	0.09	0.09	51.5	66.9	
10/30/08 1900		58.0	53.3	84	ENE	10.4	18.0	ENE	6.9	18.0	0	0.04	0.13	51.5	66.9	
10/30/08 2000		60.4	52.1	74	E	9.7	18.0	ENE	9.3	19.9	0	0.02	0.15	51.5	66.9	
10/30/08 2100		58.8	52.9	80	WNW	3.0	8.6	NNE	5.1	16.4	0	0.00	0.15	51.5	66.9	
10/30/08 2200		56.8	53.0	87	N	2.9	5.0	NW	2.3	8.1	0	0.00	0.15	51.5	66.9	
10/30/08 2300		57.1	53.4	87	NNW	1.8	3.9	NNW	2.4	5.7	0	0.00	0.15	51.5	66.9	

Station: Artois - Hourly Observations Month: October, 2008

Date	PST	Temp F	Dew Pt F	RH %	Hourly						Total Prec In Today	Daily Prec In	Daily MinT F	Daily MaxT F
					2min Wind Dir	2min Wind mph	10min Wind mph	Hourly Wind Dir	Hourly Wind mph	Hourly Wind Gust				
10/30 0000		49.5	41.9	75	NW	6.3	7.0	NNW	4.1	7.0	0.00	0.00	43.0	80.0
10/30 0100		50.1	41.8	73	NNW	4.4	5.0	NNW	4.2	5.5	0.00	0.00	49.5	50.3
10/30 0200		49.8	42.4	76	NW	4.9	6.1	NW	4.7	6.1	0.00	0.00	48.7	50.3
10/30 0300		49.2	41.6	75	NW	5.2	5.5	NW	4.9	7.0	0.00	0.00	48.7	50.6
10/30 0400		50.8	41.5	71	NW	4.0	5.3	NW	5.1	7.7	0.00	0.00	48.7	51.4
10/30 0500		50.7	41.5	71	NNW	5.3	6.4	N	3.5	6.4	0.00	0.00	48.7	51.4
10/30 0600		52.9	42.4	67	N	4.5	5.0	N	3.7	6.6	0.00	0.00	48.7	53.0
10/30 0700		53.7	42.5	66	N	3.3	4.2	N	3.6	5.5	0.00	0.00	48.7	53.7
10/30 0800		58.7	41.3	52	N	3.0	5.7	N	3.4	5.7	0.00	0.00	48.7	58.8
10/30 0900		61.8	39.8	44	N	5.0	7.0	N	5.3	11.0	0.00	0.00	48.7	61.9
10/30 1000		64.8	40.0	40	N	6.8	12.7	NNW	5.4	12.7	0.00	0.00	48.7	64.9
10/30 1100		66.9	40.8	38	N	6.8	10.7	NNW	4.2	10.7	0.00	0.00	48.7	67.1
10/30 1200		68.8	41.6	37	NNW	7.8	12.5	NW	5.3	12.5	0.00	0.00	48.7	69.0
10/30 1300		68.4	43.8	41	N	4.0	5.5	N	4.7	13.6	0.00	0.00	48.7	69.2
10/30 1400		70.1	43.1	38	E	3.9	6.1	NE	2.9	6.1	0.00	0.00	48.7	70.4
10/30 1500		66.3	45.5	47	SSW	4.2	7.5	SE	4.4	9.0	0.00	0.00	48.7	70.4
10/30 1600		63.4	50.8	64	SSW	3.8	6.4	S	4.0	9.4	0.00	0.00	48.7	70.4
10/30 1700		59.4	53.8	82	SSW	3.5	14.3	S	7.6	14.3	0.04	0.04	48.7	70.4
10/30 1800		58.4	54.1	86	ESE	3.0	12.3	SE	5.3	12.3	0.03	0.07	48.7	70.4
10/30 1900		58.1	54.4	87	ENE	7.1	12.7	E	5.2	12.7	0.01	0.08	48.7	70.4
10/30 2000		57.2	54.2	90	NNE	4.8	5.9	NW	4.3	16.4	0.00	0.08	48.7	70.4
10/30 2100		56.5	54.1	92	NW	2.5	4.4	NW	3.4	5.5	0.00	0.08	48.7	70.4
10/30 2200		56.9	54.7	92	WNW	3.7	7.5	NW	3.7	7.5	0.00	0.08	48.7	70.4
10/30 2300		56.9	54.4	92	NNW	0.2	2.4	NW	3.1	7.7	0.00	0.08	48.7	70.4

Station: Lincoln - Hourly Observations Month: October, 2008

Date	PST	Temp F	RH %	lmin		Hourly			Max Wind Gust	Daily MinT F	Daily MaxT F
				Wind Dir	Wind mph	Gust mph	Wind Dir	Wind mph			
10/30 0000		64.8	39	E	5.7	8.8	E	5.0	9.2	43.9	82.5
10/30 0100		65.2	37	E	4.6	7.5	E	5.3	9.2	64.5	65.7
10/30 0200		65.8	34	E	5.8	9.2	E	4.7	9.2	64.5	66.0
10/30 0300		65.5	33	E	5.3	8.8	E	6.7	11.8	64.5	66.4
10/30 0400		64.8	33	E	4.7	7.0	E	4.9	9.6	64.2	66.4
10/30 0500		57.4	47	N	2.4	2.9	NE	0.9	5.7	57.3	66.4
10/30 0600		55.3	59	NW	2.4	4.6	NNW	2.7	7.2	54.6	66.4
10/30 0700		55.7	60	NNW	0.9	2.2	NW	0.6	5.3	54.4	66.4
10/30 0800		59.5	54	NNE	1.0	2.6	N	1.7	3.7	54.4	66.4
10/30 0900		63.0	48	NNW	8.3	11.0	NNW	5.1	11.0	54.4	66.4
10/30 1000		66.6	40	NNW	6.1	8.6	NNW	6.9	12.7	54.4	66.7
10/30 1100		67.3	41	NW	8.1	11.6	NW	7.7	14.0	54.4	67.4
10/30 1200		69.6	38	NE	10.9	14.0	NNE	7.3	14.0	54.4	69.6
10/30 1300		71.5	33	NW	5.2	8.8	N	4.7	14.5	54.4	71.7
10/30 1400		69.5	43	WNW	4.2	8.8	WNW	4.4	9.9	54.4	71.7
10/30 1500		68.0	47	SE	3.3	4.8	W	3.5	11.0	54.4	71.7
10/30 1600		67.9	48	WSW	4.4	9.9	W	2.7	9.9	54.4	71.7
10/30 1700		61.1	80	WSW	4.3	8.8	SW	4.3	11.6	54.4	71.7
10/30 1800		58.8	90	NNE	6.3	7.9	WNW	3.0	11.6	54.4	71.7
10/30 1900		58.6	92	ENE	8.5	11.0	NE	8.2	14.9	54.4	71.7
10/30 2000		60.9	80	E	12.8	21.3	ENE	12.5	23.2	54.4	71.7
10/30 2100		61.8	77	WSW	5.7	9.9	E	8.3	19.1	54.4	71.7
10/30 2200		58.2	89	SSW	2.0	6.1	SW	3.6	10.5	54.4	71.7
10/30 2300		57.7	93	SSW	4.9	7.7	SSW	3.5	9.0	54.4	71.7

Station: Kirkville - Hourly Observations Month: October, 2008

Date	PST	Temp F	RH %	lmin		Hourly			Max Wind Gust	Daily MinT F	Daily MaxT F
				Wind Dir	Wind mph	Gust mph	Wind Dir	Wind mph			
10/30 0000		57.5	55	ESE	5.4	6.4	ESE	6.6	10.5	44.1	80.6
10/30 0100		56.8	56	ESE	7.8	9.2	ESE	4.1	9.2	55.7	57.8
10/30 0200		56.0	54	SE	2.7	4.4	ESE	5.9	9.4	55.7	57.8
10/30 0300		55.3	56	SSE	2.9	3.9	SE	3.1	4.4	54.0	57.8
10/30 0400		51.2	58	E	0.0	0.0	SSE	0.9	4.4	51.1	57.8
10/30 0500		52.9	66	NNW	5.7	7.2	NNW	2.4	7.2	51.1	57.8
10/30 0600		52.1	71	NNW	6.1	7.5	NNW	4.7	7.5	51.1	57.8
10/30 0700		52.3	74	NNW	8.6	9.6	NW	6.0	9.6	51.1	57.8
10/30 0800		56.0	69	NNW	9.4	12.9	NNW	9.5	14.0	51.1	57.8
10/30 0900		59.0	61	N	13.2	18.9	NNW	10.7	18.9	51.1	59.1
10/30 1000		61.5	53	NW	10.8	13.4	NW	9.8	18.0	51.1	61.5
10/30 1100		62.6	51	NW	8.8	10.3	NW	8.8	13.6	51.1	62.7
10/30 1200		65.6	43	NW	10.9	16.2	NW	11.1	17.1	51.1	65.7
10/30 1300		67.7	40	NNW	9.8	11.8	NNW	10.2	21.0	51.1	67.9
10/30 1400		68.5	38	N	5.4	10.3	NNW	6.0	13.6	51.1	87.8
10/30 1500		68.0	42	SW	5.0	5.9	NW	4.0	9.2	51.1	87.8
10/30 1600		64.3	61	SW	5.2	7.7	SW	5.6	12.7	51.1	87.8
10/30 1700		60.3	82	SE	4.8	5.7	S	5.3	10.3	51.1	87.8
10/30 1800		59.7	84	ENE	9.3	11.0	E	4.6	11.0	51.1	87.8
10/30 1900		60.1	78	E	15.5	30.3	ENE	14.2	30.3	51.1	87.8
10/30 2000		59.0	83	NNW	5.6	8.8	ENE	8.0	24.3	51.1	87.8
10/30 2100		58.3	85	NW	2.2	3.1	NW	4.2	9.9	51.1	87.8
10/30 2200		57.1	91	NW	5.2	9.0	W	4.9	9.0	51.1	87.8
10/30 2300		57.2	91	W	4.8	6.1	W	5.2	7.9	51.1	87.8

Rainfall at the two northern AMOS stations show the rain stated in late afternoon (4-5 p.m.) and measurable amounts were light (<0.1 inches). Surface winds shifted from northerly to light southerly only briefly prior to the rain event.

There was frequent, early communication between the air districts and Fife Environmental regarding smoke in the Valley from prescribed forestry burning and corresponding air quality readings. Shasta and Tehama counties' air districts made decisions to call a no burn day. Other counties limited burning to less than their allotted acres because of north winds at the surface and poor smoke dispersion. Because of overcast skies the smoke plumes from burning did not reach the altitude of the south winds at the Sutter Buttes (2100 feet).

The starting ARB burn acreage allocation was 4,500 acres. The 11:00 a.m. update was 1,000 more acres but the total acres burned in the Valley was 3,623.2 acres. The tables below show the burning by county, burning management zone and type of agricultural residue. A map of the Sacramento Valley Air Basin depicting the burning management zones in each county follows the two tables.

ZONE/CROP SUMMARY FILE

DATE 30-Oct

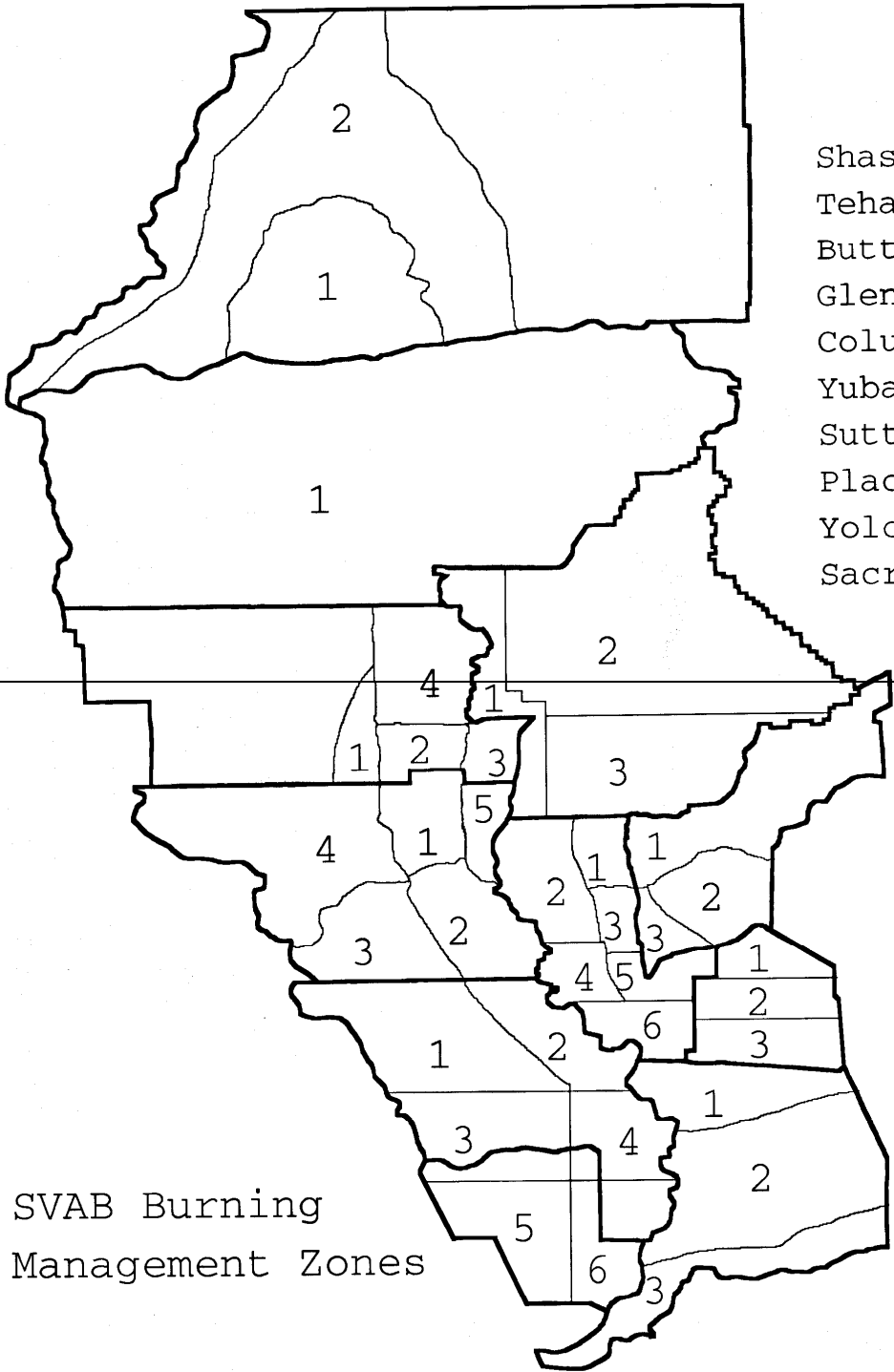
ZONES

COUNTY	1	2	3	4	5	6	TOTALS
Butte	374.0	290.0	343.0				1,007.0
Colusa	380.0	130.0	35.0	0.0	53.0		598.0
Glenn	218.0	187.0	93.0	109.0			607.0
Placer	156.0	81.0	45.0				282.0
Sacramento	0.1	33.8	273.3				307.2
Shasta	0.0	0.0					0.0
Sutter	84.0	83.0	27.0	77.0	1.0	1.0	273.0
Tehama	0.0						0.0
Yolo-Solano	0.0	0.5	127.8	0.0	0.5	4.3	133.0
Yuba	329.0	74.0	13.0				416.0

3,623.2

CROP RESIDUES

COUNTY	Rice	Other Field	Prunings Removal	Prescribed	Misc	TOTALS
Butte	955.0	0.0	52.0	0.0	0.0	1,007.0
Colusa	598.0	0.0	0.0	0.0	0.0	598.0
Glenn	400.0	48.0	21.0	125.0	13.0	607.0
Placer	282.0	0.0	0.0	0.0	0.0	282.0
Sacramento	0.0	263.3	30.9	0.0	13.0	307.2
Shasta	0.0	0.0	0.0	0.0	0.0	0.0
Sutter	235.0	4.0	31.0	0.0	3.0	273.0
Tehama	0.0	0.0	0.0	0.0	0.0	0.0
Yolo-Solano	0.0	0.0	127.5	0.0	5.5	133.0
Yuba	70.0	0.0	20.0	325.0	1.0	416.0
	2,540.0	315.3	282.4	450.0	35.5	3,623.2



- Shasta 2
- Tehama 1
- Butte 3
- Glenn 4
- Colusa 5
- Yuba 3
- Sutter 6
- Placer 3
- Yolo/Sol 6
- Sacramento 3

SVAB Burning
Management Zones

FIFE ENVIRONMENTAL, 2008

The smoke complaints received in each county on October 30 are contained in the following table and also the total amount of acres burned on that day. On the right side of the table are numbers for the fall burn season from September 15 through October 30.

	Yesterday			Season-to-Date			
	Complaints		Acres	ARB	Complaints		Acres
	ARB	APCD	Burned		APCD	Total	Burned
Butte	0	15	1007.0	0	19	19	7885.8
Colusa	0	0	598.0	0	0	0	7229.6
Glenn	0	0	607.0	0	0	0	6256.0
Placer	0	5	282.0	0	5	5	739.0
Sacramento	0	1	307.2	0	1	1	714.5
Sutter	0	13	273.0	0	13	13	5441.0
Yolo-Solano	0	0	133.0	0	1	1	1415.7
Yuba	0	4	416.0	0	4	4	1893.0
Shasta	0	18	0.0	0	23	23	775.0
Tehama	0	0	0.0	0	0	0	144.0
BASIN	0	56	3623.2	0	66	66	32493.5

Air quality monitoring data from ARB continuous air samplers and local air district samplers for particulate matter PM 2.5micron size pollution are contained in the tables below. The first data table comes from the ARB air quality data acquisition system (AQDAS) and shows preliminary data transmitted directly from the dataloggers at the air monitoring stations. These are ARB operated stations with beta attenuation monitors (BAMS) measuring PM2.5 particulate. These monitors are not accepted federal reference methods for comparison with air quality standards but do provide real time information.

DRDS POLLUTANT:BAM(XXXXX/XX) UNITS: ug/m3 (09) FLAG:RGOOD 10 30 2008

STATION	HR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CHAN		^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^	^
CIC628	5<	6	5	8	17	19	22	21	19																
COL643	5<	32	33	34	38	31	32	27	36	36	50	60	55	51	61	85	86	32	30	21	31	37	40	34	36
DAV577	5<	11	13	13	14	14	14	14	17	19	24	27	27	31	30	34	29	31	36	22	24	17	18	19	21
GRD636	5<	16	17	20	0	23	12	13	14	25	25	35	70	89	222	163	170	217	42	50	110	105	86	54	52
ROS822	5<	11	15	7	8	8	24	19	21	20	8	9	33	11	70	72	76	154	64	49	39	33	42	53	47
SAC305	5<	27	27	18	24	24	23	27	28	25	28	29	28	22	29	36	121	60	284	305	73	49	44	30	29
WLW675	5<	24	24	14	19	18	21	25	16	48	46	70	52	58	78	88	73	50	31	66	47	39	30	17	21
YUB898	5<	11	10	11	14	11	18	13	23	16	15	21	19	44	313	450	359	95	80	64	57	72	67	36	28

(The air monitoring stations are CIC Chico, COL Colusa, DAV Davis, GRD Gridley, ROS Roseville, SAC Sacramento, WLW Willows and YUB Yuba City. Data are reported in units of micrograms per cubic meter (ug/m3) of air to compare to ambient air quality standards)

The numbers highlighted in red show the higher concentrations of particulate and the hour (above 1-24) of the occurrence. Considering the geographical location of the air monitoring stations and the predominant northerly surface wind direction during the burn hours the smoke was transported toward the south.

Elevated particulate smoke concentrations persisted for several hours at most stations with the highest levels reported on the east side of the Valley.

The table below comes from the ARB database called the Air Quality & Meteorological Information System (AQMIS). This table includes data from local air district operated air monitoring stations such as Folsom, Anderson and Woodland. These data have been through a cursory validation process but are still considered preliminary. At the left are the air basin and county location information and the daily maximum value and 24 hour average.

		Micrograms/Cubic Meter (ug/m3)																																		
				Hours 00-07							Hours 08-15							Hours 16-23																		
Bas	Cnty	Site Name	Day's Max	Day's Avg	00-01	01-02	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-00								
SV	BUT	Chico-Menzenite Avenue	80	29.1	6	5	8	17	19	22	21	19															80	62	61							
SV	BUT	Gridley-Cowee Avenue	110	42.9	16	17	20	0	23	12	13	14	25	25	35	70	89					42	50	110	105	86	54	52								
SV	COL	Colusa-Sunrise Blvd	88	42	32	33	34	38	31	32	27	36	36	50	60	55	51	61	85	86	32	30	21	31	37	40	34	36								
SV	GLE	Willows-720 N Colusa Street	88	40.6	24	24	14	19	18	21	25	16	48	46	70	52	58	78	88	73	50	31	66	47	39	30	17	21								
SV	PLA	Roseville-N Sunrise Blvd	154	37.2	11	15	7	8	8	24	19	21	20	8	9	33	11	70	72	76	154	64	49	39	33	42	53	47								
SV	SAC	Elk Grove-Bruceville Road	66	34	33	33	31	20	24	22	25	23	29	32	32	32	32	38	32	41	25	30	36	54	66	53	38									
SV	SAC	Folsom-Natoma Street	88	41.6	24	14	12	21	29	49	54	47	44	26	19	18	17	21	60	78	77	88	61	56	46	43	54									
SV	SAC	Sacramento-Del Paso Manor	76	37.6	26	30	13	30	16	17	19	27	28	28	25	25	66	39	42	33	54	76	49	61	54	56	51									
SV	SAC	Sacramento-T Street	120	32.1	24	24	22	21	21	14	22	25	35	30	27	26	19	26	34	120	54	33	29	36	43	34	26	26								
SV	SHA	Anderson-North Street	63.5	34.8	15	22	22	8	39	32	9	6	34	2	19	25	1	38	34	8	25	7	31	3	46	1	48	63.5	40.9	17.6	28.7	42.1	42.5	41.8	48.4	37.6
SV	SOL	Vacaville-Ulatis Drive	24	13.3	3	3	3	4	5	6	7	5	6	8	18	10	24	17	24	23	16	16	23	20	21	18	17	23								
SV	SUT	Yuba City-Almond Street	359	60.7	11	10	11	14	11	18	13	23	16	15	21	19	44	313		359	95	80	64	57	72	67	36	28								
SV	YOL	Davis-UCD Campus	36	21.6	11	13	13	14	14	14	14	17	19	24	27	27	31	30	34	29	31	36	22	24	17	18	19	21								
SV	YOL	Woodland-Gibson Road	46	21.9	14	16	10	14	3	16	17	18	20	21	21	31	46	34	36	33	29	27	18	12	17	28	22									

(Note: Anderson's values are reported to one decimal place all others stations are whole numbers)

Air quality problems developed because of the expectation of significant rainfall, decoupled winds, an overcast sky and burning too many acres in certain burning management zones.