

**California Air Resources Board - Meteorology Section  
Basinwide Ag-Burn Acreage Allocation - Sacramento Valley Air Basin**

**Date:** 21-Jan-22

**Local Time:** 07:51 AM

**Meteorologist:** Lancero

**Ag Burn Decision Above 3000 ft:** Permissive Burn Day (Superior)

**A.M. Stability (°F)** = 12

**Wind Speed (mph)** = 20

**500 millibar height (decameters)** = 576

**Average Rainfall (in)** = 0

**Meteorological (MET) Factor**

= 0.65

**Air Quality (AQ) Factor (Basinwide 00-06 PST Average PM<sub>2.5</sub>)**

= 19.4

**Allocation Equation:**

= 4625

**ARB REVISED Basinwide Allocation**

= 2000

**Revised Allocation**

= 1800

District	Yesterday's 24-Hr Avg PM <sub>2.5</sub>	Yesterday's PM <sub>2.5</sub> (0-6 PST)	Reduction Factor	Proration	Final Allocation (Acres)	Avg PM <sub>2.5</sub> (0-6 PST)	
						Conc	Stn
Colusa	25	25	1	0.17	200	20	COL
Sutter	27	26	1	0.17	200	22	YUB
Butte	19	18	1	0.17	200	17	CIC-GRD
Yolo/Solano	18	16	1	0.15	200	14	DAV-WOO
Glenn	9	2	1	0.13	200	9	WLW
Sacramento	26	27	0	0.09	0	35	SAC
Yuba	27	26	1	0.07	200	22	YUB
Placer	18	16	1	0.05	200	26	ROS
Tehama	-	-	1	200 acres unless reduced by PM	200	-	RBL
Shasta	-	-	1		200	-	AND

When any district's 0-6 am average PM<sub>2.5</sub> is >= 27 ug/m increasing concentrations will result in a reduction in allocation acres (e.g. 27-28 : 20%, 29-30 : 40%, 31-32 : 60%, 33-34 : 80%)

**ARB Comments**

**Cautionary Comments:**

\*\*\* **PRUNINGS ONLY Burn Day** \*\*\*

\*\*\* **NWS Wind Advisory effective until Noon Saturday** \*\*\*

*Upper level disturbance moving through the PacNW states heading in the the Great Basin region, bringing strong surface pressure gradients for the Sac Valley, Deltas and the Sierras. Expect strong northerly winds 20-25mph gusting 30-35mph for the valley with the usual stronger gusts in the N+W side of the valley. NWS Wind Advisory in effect for the valley, as well as High Wind Warning over the Sierras. Temps for the valley on the warm side in the mid-upper 60s.  
Burning is discouraged!*

**24hr Outlook**

\*\*\* **Restricted Fields** \*\*\*

\*\*\* **NWS Wind Advisory effective until Noon Saturday** \*\*\*

*The upper low will become closed as it continues to head south towards the southern border. Expect northerly winds again for the valley, but should remain in the Restricted Fields category as the winds decrease compared to today's.*

**Mixing Height Discussion:**

**Valley:** Mixing heights will reach 1200-1500 feet this afternoon.

**Winds:**

**Valley:** Strong northerly 20-25mph, gusting 30-35mph, possible stronger gusts 40+ on the West side.

**Delta:** N-NE 20-25mph, gusting 35-45mph.

