

Appendix G

Volatile Organic Compounds

Introduction

This Appendix contains information on Volatile Organic Compounds (VOCs).

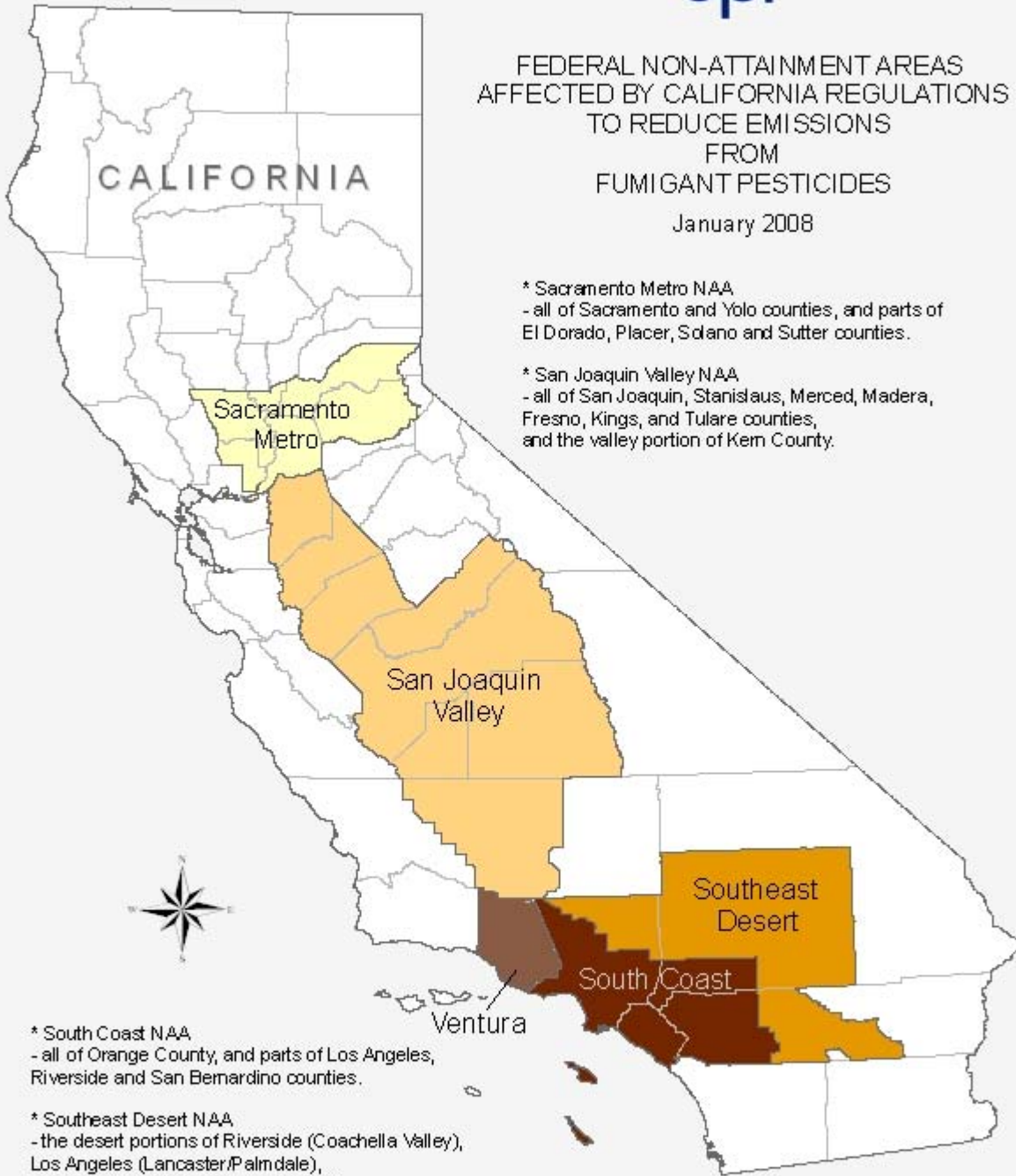
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FEDERAL NON-ATTAINMENT AREAS
AFFECTED BY CALIFORNIA REGULATIONS
TO REDUCE EMISSIONS
FROM
FUMIGANT PESTICIDES

January 2008



* Sacramento Metro NAA
- all of Sacramento and Yolo counties, and parts of
El Dorado, Placer, Solano and Sutter counties.

* San Joaquin Valley NAA
- all of San Joaquin, Stanislaus, Merced, Madera,
Fresno, Kings, and Tulare counties,
and the valley portion of Kern County.

* South Coast NAA
- all of Orange County, and parts of Los Angeles,
Riverside and San Bernardino counties.

* Southeast Desert NAA
- the desert portions of Riverside (Coachella Valley),
Los Angeles (Lancaster/Palm dale),
and San Bernardino (Barstow) counties.

* Ventura NAA - all of Ventura County.

Appendix G.2

California Department of Pesticide Regulation
Volatile Organic Compound Regulations

Field Fumigation Methods (FFM), FFM Code for Pesticide Use Reporting, and Emission Ratings

Regulation Section	Field Fumigation Method	FFM Code	Emission Rating (%)
6447.3.	Methyl Bromide Fumigation Methods (With or without chloropicrin)	1100 series	
6447.3(a)(1)	Nontarpaulin/Shallow/Bed	1101	100*
6447.3(a)(2)	Nontarpaulin/Deep/Broadcast	1102	74*
6447.3(a)(3)	Tarpaulin/Shallow/Broadcast – Nobel Plow	1103	48
	Tarpaulin/Shallow/Broadcast – Nobel Plow – Strip	1104	74*
	Tarpaulin/Shallow/Broadcast – Closing shoes and compaction roller	1105	100*
6447.3(a)(4)	Tarpaulin/Shallow/Bed	1106	100*
6447.3(a)(5)	Tarpaulin/Deep/Broadcast	1107	48
	Tarpaulin/Deep/Broadcast – Strip	1108	74*
6447.3(a)(6)	Drip System - Hot Gas	1109	100*
		-	-
	Other label method for Methyl Bromide (with or without chloropicrin)**	1190	---
		-	-
6448.1.	1,3-Dichloropropene Fumigation Methods (with or without chloropicrin)	1200 series	
6448.1(c)(1)	Nontarpaulin/Shallow/Broadcast or Bed	1201	65*
6448.1(c)(2)	Tarpaulin/Shallow/Broadcast	1202	65*
	Tarpaulin/Shallow/Bed	1203	65*
6448.1(c)(3)	Nontarpaulin/Shallow/Broadcast /Three Water Treatments	1204	44
6448.1(c)(4)	Tarpaulin/Shallow/Bed/Three Water Treatment	1205	44
6448.1(c)(5)	Nontarpaulin/Deep/Broadcast or Bed	1206	26
6448.1(c)(6)	Tarpaulin/Deep/Broadcast	1207	26
	Tarpaulin/Deep/Bed	1208	26
6448.1(c)(7)	Chemigation (Drip System)/Tarpaulin	1209	19
	Other label method for 1,3-Dichloropropene (with or without chloropicrin)**	1290	---
6449.1	Chloropicrin-Fumigation Methods	1100-1300 series	
6447.3(a)(1)	Nontarpaulin/Shallow/Bed	1101	64*
6447.3(a)(2)	Nontarpaulin/Deep/Broadcast	1102	64*
6447.3(a)(3)	Tarpaulin/Shallow/Broadcast – Nobel Plow	1103	44
	Tarpaulin/Shallow/Broadcast – Nobel Plow – Strip	1104	64*
	Tarpaulin/Shallow/Broadcast – Closing shoes and compaction roller	1105	64*
6447.3(a)(4)	Tarpaulin/Shallow/Bed	1106	64*
6447.3(a)(5)	Tarpaulin/Deep/Broadcast	1107	44
	Tarpaulin/Deep/Broadcast – Strip	1108	64*
6448.1(c)(1)	Nontarpaulin/Shallow/Broadcast or Bed	1201	64*
6448.1(c)(2)	Tarpaulin/Shallow/Broadcast	1202	44
	Tarpaulin/Shallow/Bed	1203	64*
6448.1(c)(3)	Nontarpaulin/Shallow/Broadcast /Three Water Treatments	1204	43
6448.1(c)(4)	Tarpaulin/Shallow/Bed/Three Water Treatment	1205	43
6448.1(c)(5)	Nontarpaulin/Deep/Broadcast or Bed	1206	64*
6448.1(c)(6)	Tarpaulin/Deep/Broadcast	1207	44
	Tarpaulin/Deep/Bed	1208	44
6448.1(c)(7)	Chemigation (Drip System)/Tarpaulin	1209	12
	Other label method for Chloropicrin**	1390	---

Appendix G.2

Regulation Section	Field Fumigation Method	FFM Code	Emission Rating (%)
6450.1.	Metam-Sodium and Metam-Potassium Fumigation Methods	1400 series	
6450.1(d)(1)	Day Sprinkler/Broadcast or Bed/One Water Treatment	1401	77*
6450.1(d)(2)	Day Sprinkler/Broadcast or Bed/Two Water Treatments	1402	28
6450.1(d)(3)	Day Sprinkler/Broadcast or Bed/Three Water Treatments	1403	21
6450.1(d)(4)	Day Nontarpaulin/Shallow/Broadcast or Bed/One Water Treatment	1404	77*
6450.1(d)(5)	Day Nontarpaulin/Shallow/Broadcast or Bed /Two Water Treatments	1405	28
6450.1(d)(6)	Day Nontarpaulin/Shallow/Broadcast or Bed/Three Water Treatments	1406	21
6450.1(d)(7)	Day Chemigation (Drip System) Tarpaulin	1407	9
	Day Chemigation (Drip System) Nontarpaulin	1408	9
6450.1(d)(8)	Day Rotary Tiller	1409	14
	Day Power Mulcher	1410	14
	Day Soil Capping	1411	14
6450.1(d)(9)	Day or Night Flood	1412	77*
6452	Day Drench	1413	100
6452	Night 1A.M. Start/Sprinkler/Broadcast or Bed/Two Water Treatments	1452	77*
6452	Night Nontarpaulin/Shallow/Broadcast or Bed/Two Water Treatments	1455	28
6452	Night 4A.M. Start/sprinkler/Broadcast or Bed/Two Water Treatments	1472	35
	Other label method for Metam-Sodium and Metam-Potassium**	1490	---
6450.2.	Dazomet Fumigation Methods	1500 series	
	Day Soil incorporation	1501	17
	Day Surface application – water incorporation	1502	17
	Other label method for Dazomet**	1590	---
6451.1	Sodium Tetrathiocarbonate Fumigation Methods	1600 series	
	Chemigation (Drip)	1601	10
	Chemigation (mini-sprinkler)	1602	10
	Chemigation (flood, basin)	1603	10
	Chemigation (furrow, border)	1604	10
	Chemigation (foggers, jets, misters, other)	1605	10
	Other label method for Sodium Tetrathiocarbonate**	1690	---
6446.1	Methyl Iodide Fumigation Methods	1700 Series	
	Day Tarpaulin/Shallow/Broadcast	1701	100
	Day Tarpaulin/Shallow/Bed	1702	100
	Day Tarpaulin/Deep/Broadcast	1703	100
	Day Chemigation (Drip)/Tarpaulin	1704	100
	Day Auger-Probe	1705	100

All Field fumigation methods can occur day or night except where indicated.

*Method prohibited within the San Joaquin Valley, Southeast Desert, and Ventura nonattainment areas during May 1 – October 31.

**For use only outside of the May 1 – October 31 time period: or areas outside of the nonattainment areas; or for exempted applications (such as described in Sections 6447, 6448, 6449, 6450, and 6451)