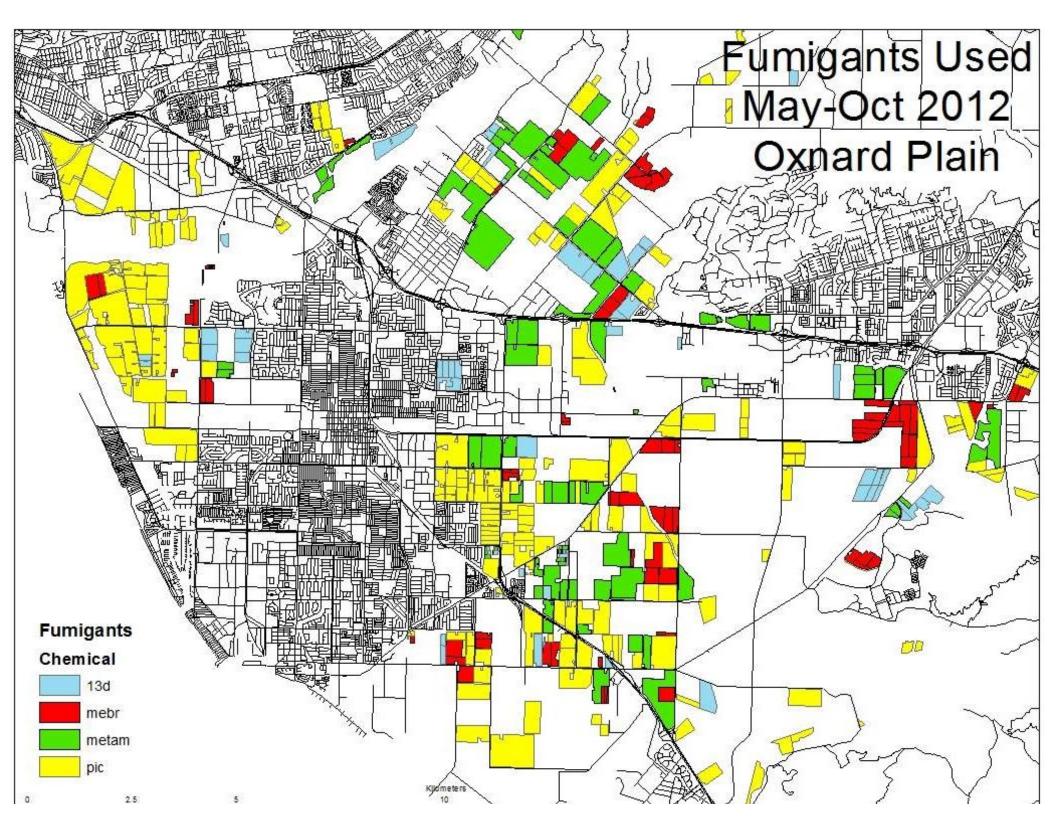
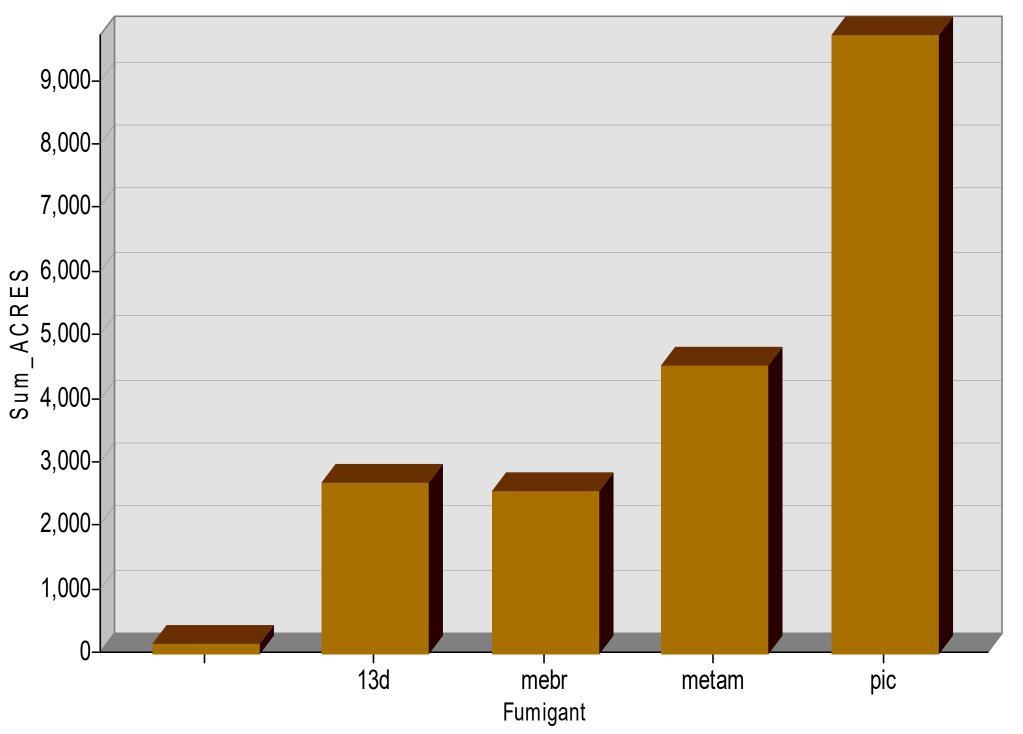
VENTURA COUNTY FUMIGATION OVERVIEW & PHASE II LABELS

Andy Calderwood –Ventura Co Agricultural Commissioner's Office



Acres Fumigated by AI, Vta Co, May-Oct 2012



US EPA

Amended RED's 2009

- Chloropicrin
- Methyl Bromide
- MITC
 - Metam Sodium
 - Metam Potassium
 - Dazomet

Fumigant Label Changes

Phase I (2011)

- Fumigant Management Plan
- Respiratory Protection & Stop Work Triggers
- License Category
- Supervision
- Responsibility
- Phase II (Dec 2012)
 - Buffer Zones
 - Emergency Preparedness & Response Measures
 - Difficult to Evacuate Sites

Fumigant Use Rules

Federal Rules (Label)

- CA Laws & Regulations
- DPR's Suggested Permit Conditions
- CAC Permit Conditions

Phase II Changes

Buffer Zones

- Emergency Preparedness & Response Measures
- Difficult to Evacuate Sites

Buffer Zones

- 48-hour Minimum
- Excludes Everyone but:
 - Handlers
 - Vehicular Transit
 - Bicycle Transit
- Posting

- Permission
- Depends on Product, Rate, Method, & Acres

Buffer Zone Tables

Table 10. Drip Application Buffer Zone Distances in Feet

Application Block Size (acres)																	
Gal/A	1	2	3	4	5	6	7	8	9	10	20	30	40	50	60	70	8
4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
7	25	25	25	25	25	25	25	25	25	25	38	38	50	50	63	76	8
9	25	25	25	25	25	25	25	25	25	25	50	50	75	75	100	125	1
12	25	25	25	25	25	26	28	29	31	32	57	57	82	82	113	140	10
14	25	25	25	25	25	28	30	33	35	38	63	63	88	88	125	150	17
16	25	25	25	25	25	29	33	36	40	44	69	69	94	94	138	163	18
19	25	25	25	25	25	30	35	40	45	50	75	75	100	100	150	175	20
21	25	27	29	30	32	37	42	47	52	57	82	94	113	125	175	207	23
23	25	28	32	35	38	43	48	53	58	63	88	113	125	150	200	250	2
26	25	30	35	39	44	49	54	59	64	69	94	132	138	175	225	269	3
28	25	31	38	44	50	55	60	65	70	75	100	150	150	200	250	300	35
31	32	37	41	46	50	56	63	69	76	82	125	188	200	250	300	350	40
33	38	41	44	47	50	58	65	73	80	88	150	225	250	300	350	400	4
35	44	46	47	49	50	59	68	76	85	94	175	263	300	350	400	450	5
38	50	50	50	50	50	60	70	80	90	100	200	300	350	400	450	500	55
40	51	52	53	54	55	64	74	85	96	106	213	319	372	425	478	531	58
42	52	54	56	58	60	68	79	90	101	113	225	338	394	450	506	563	63
45	53	56	59	62	65	71	83	95	107	119	238	356	416	475	534	594	68
47	54	58	62	66	70	75	88	100	113	125	250	375	438	500	563	625	7
49	55	60	65	70	75	79	92	105	118	131	263	394	459	525	591	656	78
52	56	62	68	74	80	83	96	110	124	138	275	413	481	550	619	688	83
54	57	64	71	78	85	86	101	115	129	144	288	431	503	575	647	719	88
56	58	66	75	82	90	90	105	120	135	150	300	450	525	600	675	750	9

Buffer Zones and Roads

Buffer zones *must not include* roadways and rights of way *UNLESS*:
 1. The area is *not occupied* during the buffer zone period, *and* 2. *Entry by non-handlers is prohibited* during

the buffer zone period.

Buffer Zones and Roads

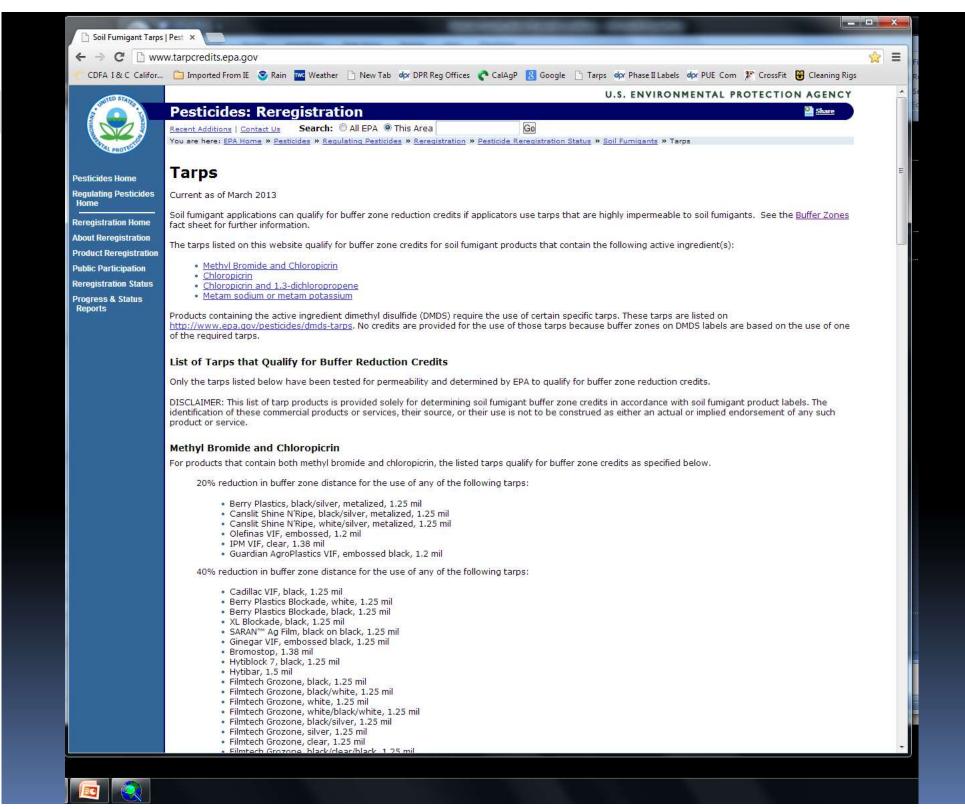
 Buffer Zone Exemption for Transit on Roadways: Vehicular and bicycle traffic on public and private roadways through the buffer zone is permitted. (NOTE: Buffer zones are not permitted to include bus stops or other locations where persons wait for public transit.)

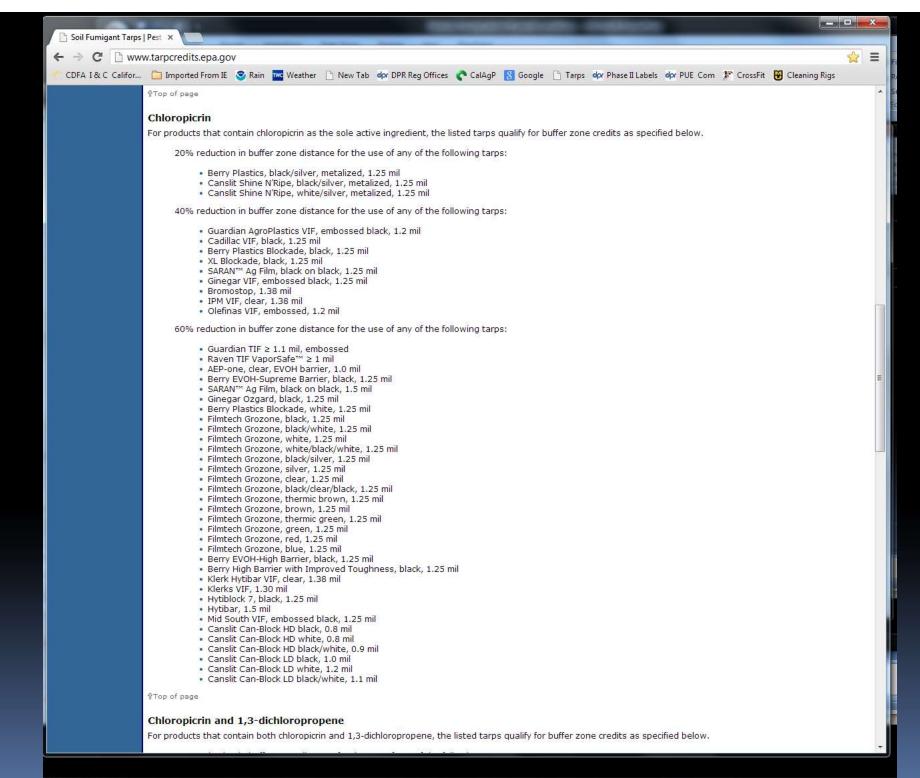
Buffer Zones and Roads

- For all other publicly owned and/or operated areas such as parks, sidewalks, permanent walking paths, playgrounds, and athletic fields, buffer zones must not include these areas UNLESS:
 - 1. The area is *not occupied* during the buffer zone period,
 - 2. Entry by non-handlers is prohibited during the buffer zone period, and
 - 3. *Written permission* to include the public area in the buffer zone is granted by the appropriate state and/or local authorities responsible for management and operation of the area.

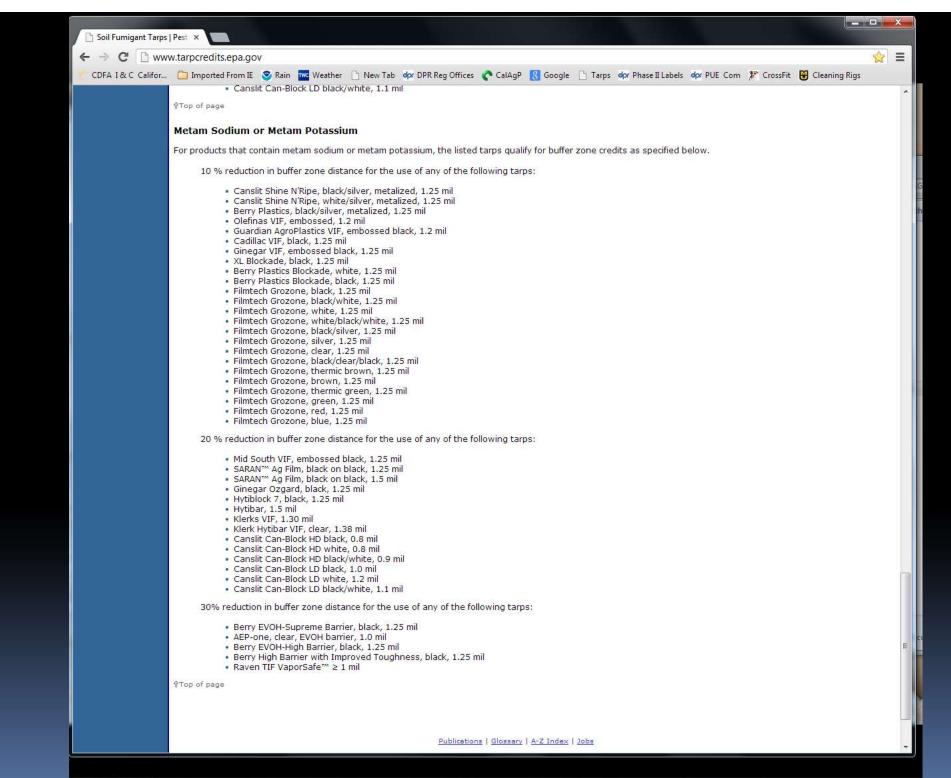
Buffer Zone Credits

Tarps





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Buffer Zone Credits

Tarps

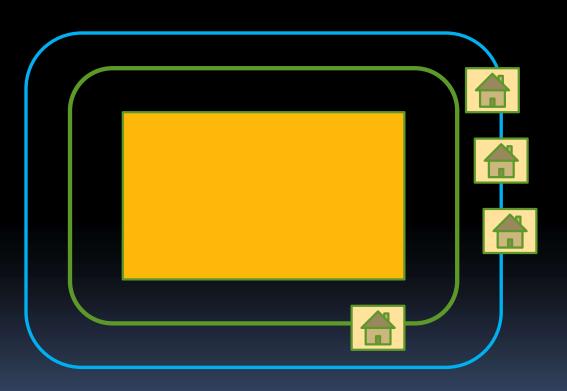
- Water Seals
- Thiosulfate
- Clay Content
- Organic Content
- Soil Temperature
- "Symmetry Application System"

Emergency Preparedness & Response Measures

- Triggered when occupied structures are within certain distance of Buffer Zones
- Two Options:

Notification

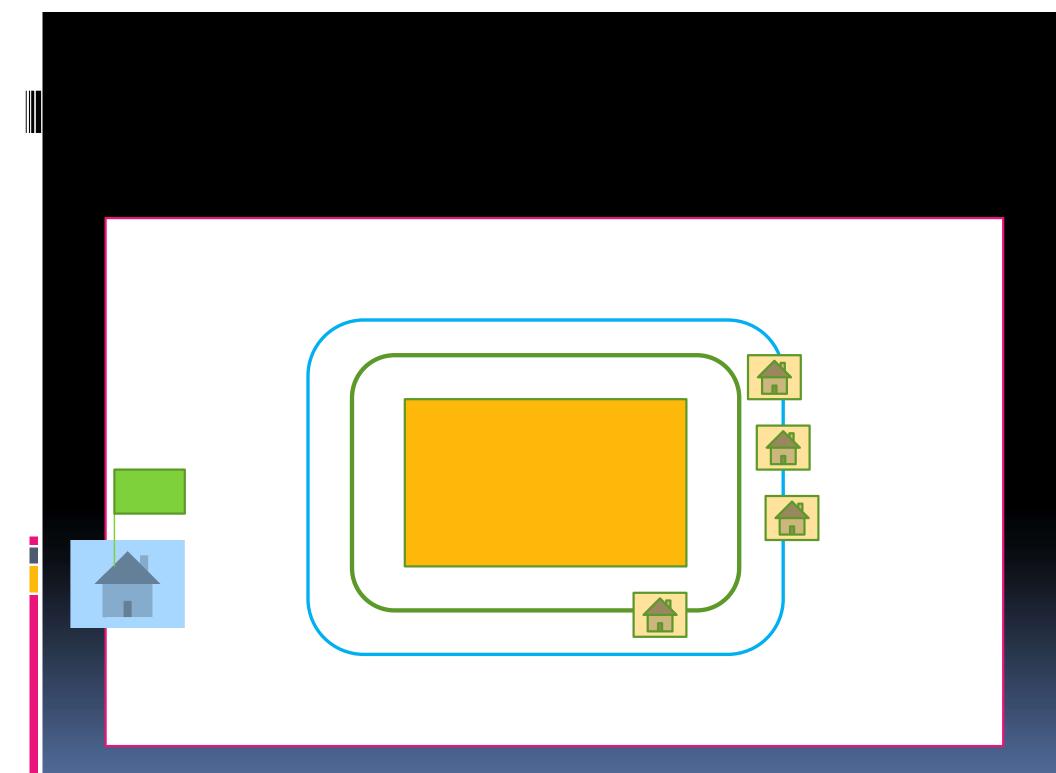
Monitoring



Difficult to Evacuate Sites

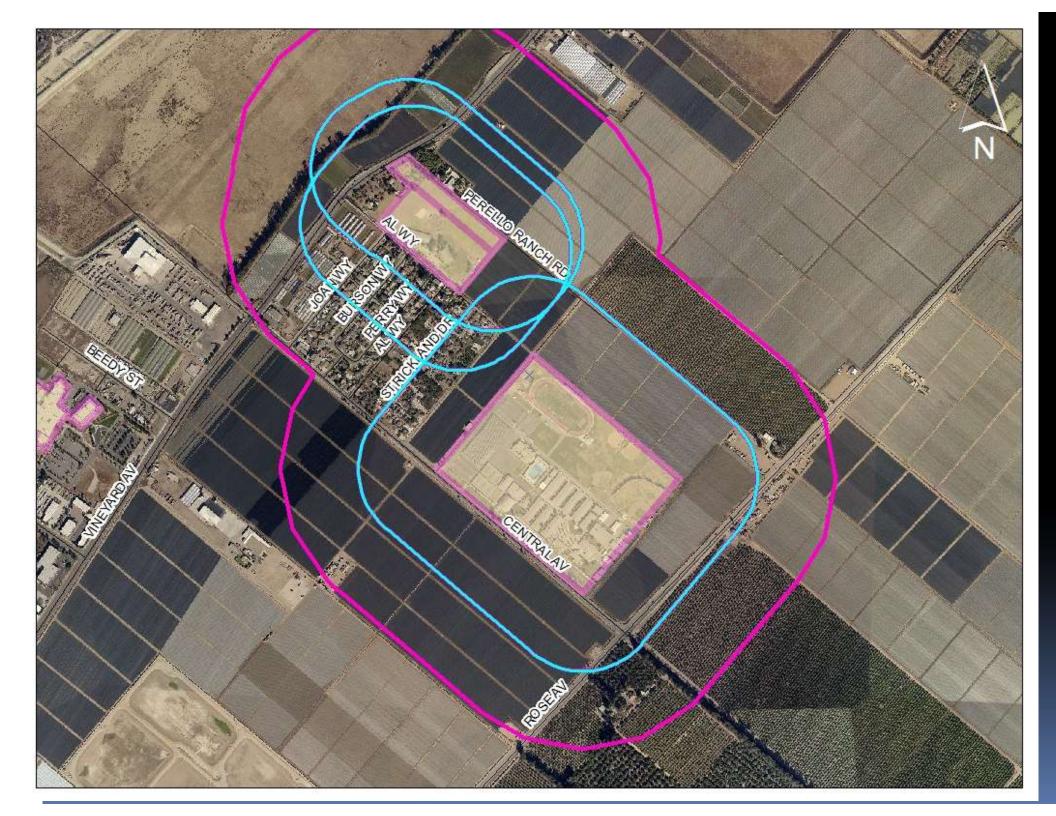
Schools

- Hospitals
- Day Care Centers
- Assisted Living
- Jails



Difficult to Evacuate Sites

If 300+ ft Buffer Zone
No Application within ¼ mile
If Buffer Zone 300 ft or less
No Application within 1/8 mile



The NOI

- FMP Map
- Emergency Preparedness & Response Measure Chosen
- Notification Log (if applicable)



Office of Agricultural Commissioner PO Box 3937, Ventura, CA 93003 669 County Square Dr, Ventura, CA Camarillo (805) 388-4222 Santa Paula (805) 933-2926 Ventura (805) 477-1620

Notification Log

VCAC-2013-2

Permittee

Permit #

Site ID

Use this form to record all residences or businesses given written notice per fumigant label requirements for *Response Information for Neighbors* or the requirements of 3CCR 6447.1 (b).

0447.1	Date	Street	House Number	Signature of Notice Server
1	Date	JUCCI	Number	Signature of Notice Server
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
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17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

The NOI

- FMP Map
- Emergency Preparedness & Response Measure Chosen
- Notification Log (if applicable)
- Emergency Response Plan (from FMP)
- Permissions



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Permission for **Buffer Zones** VCAC-2013-3

Fumigator's Permit

Permit #

Site ID

The above permittee intends to fumigate land near yours. By signing this form, you agree to allow highly restrictive "buffer zones" to extend onto your property. Buffer zones are in effect from the start of fumigation until at least 48 hours after fumigation is complete.

Buffer zones are of two types:

- 1) Inner buffer zones (includes phase II label buffer zones)
 - Entry on foot prohibited
 - Transit by vehicle or bicycle only
 - Must be posted at least every 200 feet

2) Outer buffer zones

- Cannot extend onto occupied structures
- Transit permitted
- · Other activities permitted if approved by the agricultural commissioner

I agree to permit the following buffer zones to extend onto property I operate. I will allow buffer zone signs to be posted as needed and will direct my employees to obey all such postings.

Inner (label) buffer zone extending approximately ______ feet into my property

Outer buffer zone (if any) extending approximately feet into my property

I agree to restrict my employees to limit their activities in the outer buffer zone to the following activities:

Signature Name

Permit # (if any)

Date

The NOI

- FMP Map
- Emergency Preparedness & Response Measure Chosen
- Notification Log (if applicable)
- Emergency Response Plan (from FMP)
- Permissions
- Vacating Agreements





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Vacating Agreement VCAC-2013-4

Fumigator's Permit

Permit #

Site ID _____ Block ID (if any) _____

The above permittee intends to fumigate land near yours. By signing this form, you agree to vacate your property to allow highly restrictive "buffer zones" to extend onto your property. You agree to vacate prior to fumigation and not return until the buffer zone has expired. Buffer zones are in effect from the start of fumigation until at least 48 hours after fumigation is complete.

I agree	to vacate my	property loca	ated at			
				Addres	is of dwelling	
from			until			
_	Time	Date		Time	Date	
Name_			Signature			
Phone	Number			Date		

New Restrictions 2013 – Federal (Label)

- Chloropicrin (incl. w/ 1, 3-D) & Metam
- Notifications
- Monitoring

- Buffer Zones
- Interference from Neighboring Appl Blocks
- Permissions
- More Uncertainty & Cost re Tarps

Methyl Bromide

- Inner Buffer Zone more Restrictive
- More Permissions

New Restrictions 2013 – State & County

- Chloropicrin (incl. w/ 1, 3-D) & Metam
- *40-Acre Block Limit (*80 Acres-Metam)
- Minimum BZ's

- *Buffer Zone Credit Limitations
- Tarp Cutting Delayed (TIF, VIF)
- Earlier NOIs -3 Days Prior
- More Info w/ NOI
- More Record-keeping (Notification Log)
- Required Forms

Methyl Bromide

- Inner Buffer Zone more Restrictive
- More Permissions

New Restrictions 2013 – State & County

- 3-day NOI (Chloropicrin, Metam)
- More Notifications
- More Monitoring
- Acreage Limit