



Fumigation Updates

Presented by:

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Supervising Agricultural Inspector Biologist

Chloropicrin

- No more Methyl Bromide (MeBr) – as of January 1, 2017
- Time Restrictions: Non-TIF and untarped fumigations shall start no earlier than ONE hour AFTER sunrise, and shall end no earlier than THREE hours prior to sunset.
- Micro Sprinklers can MEET the requirements of “sprinklers in place” as long as the tarp used is on the APPROVED county TIF Tarp list.

County approved TIF Tarps for Chloropicrin 60% Buffer Zone reduction

The following tarps are approved for use with field soil fumigants containing chloropicrin and qualify for a 60% buffer zone reduction credit. This list is the same as DPR's newly released list. Note some of the tarps from our previous list no longer qualify. The mil listed for tarp thickness is the minimum allowed. All colors for each tarp are included.

- AEP Sunfilm UltraShield,-EVOH-barrier, 1.0 mil
- AgroSIF 015 Super Impermeable Film, EVOH barrier, 1.0 mil
- Berry Plastics Total Blockade TIF, 1.25 mil
- Filmtech Grozone MAX TIF, 1.25 mil
- Ginegar Ozgard T Plus, 1.5 mil, TIF
- Guardian TIF, > 1.1 mil
- Imaflex USA Can-Block Clear v-TIF XSB, 0.9 mil
- Next Generation TIF DN Mulch, 1.25 mil
- Plainnova UBF Ultra100, > 1.0 mil (MIF Maximum Impermeable Film)
- Raven TIF VaporSafe™, > 1 mil
- TRM Manufacturing Weather-all Power Film HB 125, > 1.25 mil

How to determine Buffer Zone (BZ) for Chloropicrin

➤ Label:


**RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY**
For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Tri-Clor EC Fumigant

ACTIVE INGREDIENTS:
Chloropicrin94%
OTHER INGREDIENTS:6%
TOTAL:100%

*This product weighs 13.46 lbs./gal. @ 68 °F (20 °C).
Contains 12.7 lbs. of chloropicrin per gallon.*

KEEP OUT OF REACH OF CHILDREN

DANGER  **PELIGRO**


**RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY**
For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

**Tri-Clor
Fumigant**

ACTIVE INGREDIENT:
Chloropicrin99%
OTHER INGREDIENTS:1%
TOTAL:100%

This product weighs 13.88 lbs./gal. @ 68°F (20°C).

KEEP OUT OF REACH OF CHILDREN

DANGER  **PELIGRO**
POISON

**RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY AND CARCINOGENICITY**
For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.


Pic-Clor 60

*A multi-purpose liquid fumigant for preplant treatment of soil to control plant parasitic nematodes and to help manage certain soil-borne diseases and symphylans in cropland.
Not for use in greenhouses or other enclosed areas and not for use in drip or other chemigation applications.*

ACTIVE INGREDIENTS:
1,3-Dichloropropene39.0%
Chloropicrin59.6%
OTHER INGREDIENTS:1.4%
TOTAL:100.0%

*This product weighs 12.1 lbs./gal. @ 68°F (20°C).
Contains 4.7 pounds of 1,3-Dichloropropene and 7.2 pounds of Chloropicrin per gallon.*

KEEP OUT OF REACH OF CHILDREN

DANGER  **PELIGRO**

**RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY AND CARCINOGENICITY**
For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.


Pic-Clor 60 EC

A multi-purpose liquid fumigant to be used in drip irrigation systems only for preplant treatment of soil to control plant parasitic nematodes and to help manage certain soil-borne diseases and symphylans in cropland.

ACTIVE INGREDIENTS:
Chloropicrin56.6%
1,3-Dichloropropene37.1%
OTHER INGREDIENTS:6.3%
TOTAL:100.0%

*This product weighs 11.81 lbs./gal. at 68 °F (20 °C).
Contains 4.49 pounds of 1,3-Dichloropropene and 6.73 pounds of Chloropicrin per gallon.*

KEEP OUT OF REACH OF CHILDREN

DANGER  **PELIGRO**

Specimen Label
RESTRICTED USE PESTICIDE
Due to acute toxicity and carcinogenicity.
For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Dow AgroSciences

InLine®

Soil Fungicide and Nematicide


*Trademark of Dow AgroSciences LLC

A multi-purpose liquid fumigant for preplant treatment of soil to control plant parasitic nematodes, symphylans and to help manage certain soil borne diseases in cropland using drip irrigation systems only.

Active Ingredients:
1,3-dichloropropene60.8%
chloropicrin33.3%
Other Ingredients:5.9%
Total:100.0%

One gallon of InLine weighs about 11.2 lb and contains 6.81 lb of 1,3-dichloropropene and 3.73 lb of chloropicrin.

Keep Out of Reach of Children

DANGER  **POISON**

Specimen Label
RESTRICTED USE PESTICIDE
Due to acute toxicity and carcinogenicity.
For retail sale to and use by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Dow AgroSciences

Telone®

C-35

Soil Fungicide and Nematicide

*Trademark of Dow AgroSciences LLC

A multi-purpose liquid fumigant for preplant treatment of soil to control plant parasitic nematodes, symphylans and to help manage certain soil borne diseases in cropland.

Not for use in greenhouses or other enclosed areas and not for use in drip or other chemigation applications.

Active Ingredients:
1,3-dichloropropene63.4%
chloropicrin34.7%
Other Ingredients:1.9%
Total:100.0%

This product weighs 11.2 lbs./gal. @ 68°F (20°C). Contains 7.10 lb of 1,3-dichloropropene and 3.88 lb of chloropicrin per gallon.

➤ Ventura County Restricted Materials Permit Field Fumigation Conditions

➤ Appendix K:

www.cdpr.ca.gov/docs/enforce/compend/vol_3/append_k.pdf

Use the **MOST RESTRICTIVE** Buffer Zone Distance

Chloropicrin Minimum Buffer Zone Distances:

Tarps that qualify for a reduction credit of 60%	Tarps that do <u>not</u> qualify for a reduction credit of 60%		Untarped applications
	Application block Less than or equal to 6 acres	Application block Greater than 6 acres, up to 40 acres	
25 feet	60 feet	100 feet	100 feet

Appendix K

For chloropicrin-only products and chloropicrin/1,3-D combination products:

Method	Coastal Counties	Inland Counties
TIF broadcast shank injection	Table 1	Table 1
TIF bed injection	Table 2	Table 2
TIF strip deep injection*	Table 3	Table 3
TIF drip	Table 4	Table 4
Non-TIF broadcast shank injection	Table 5	Table 5
Non-TIF bed injection	Table 6a	Table 6b
Non-TIF strip injection	Table 7a	Table 7b
Non-TIF drip	Table 8a	Table 8b
Untarped broadcast shallow injection	Table 9a	Table 9b
Untarped broadcast deep injection	Table 10a	Table 10b
Untarped bed injection	Table 11a	Table 11b
Untarped drip	Table 12	Table 12

*TIF strip *shallow* injection is prohibited.

www.cdpr.ca.gov/docs/enforce/compend/vol_3/append_k.pdf

Notice of Intent for Fumigations

- AT LEAST **3 BUSINESS DAYS** prior to the start of the fumigation

Example:

Job for Monday – must be submitted prior to WEDNESDAY 9:00am (previous week)

Job for Tuesday – must be submitted prior to THURSDAY 9:00am (previous week)

Job for Wednesday – must be submitted prior to FRIDAY 9:00am (previous week)

Job for Thursday – must be submitted prior to MONDAY 9:00am (current week)

Job for Friday – must be submitted prior to TUESDAY 9:00am (current week)

Job for Saturday – must be submitted prior to WEDNESDAY 9:00am (current week)

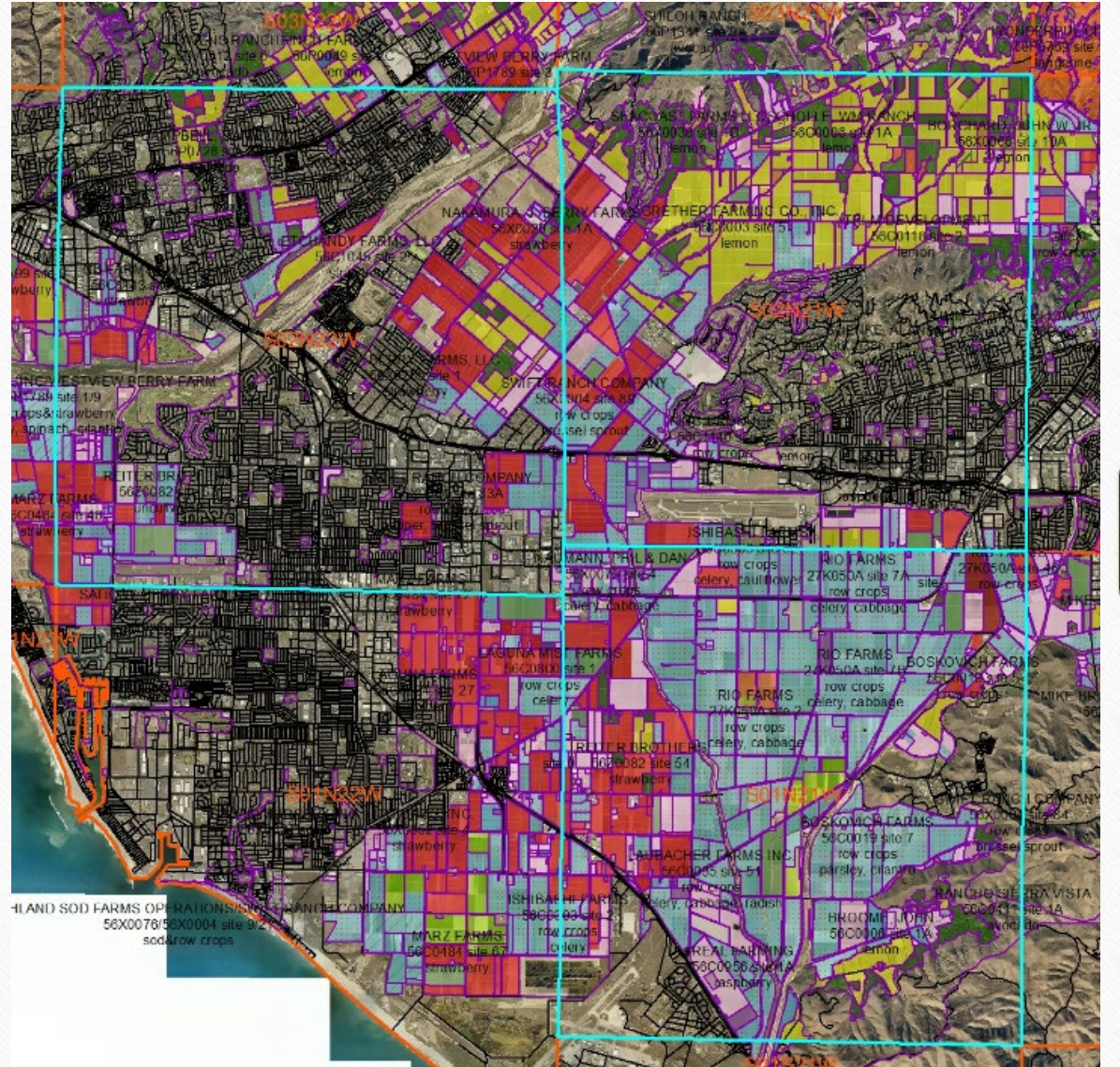
Job for Sunday – must be submitted prior to WEDNESDAY 9:00am (previous week)

- Must receive **APPROVAL PRIOR** to start of application
- If the fumigation does not begin within 12 hours of the scheduled start time, a new NOI must be submitted and approved

1,3-Dichloropropene (1,3-D) Township and Range Monitoring

- 1N21W
- 2N21W
- 2N22W

These Township and Range sections historically deplete the allotted bank each year

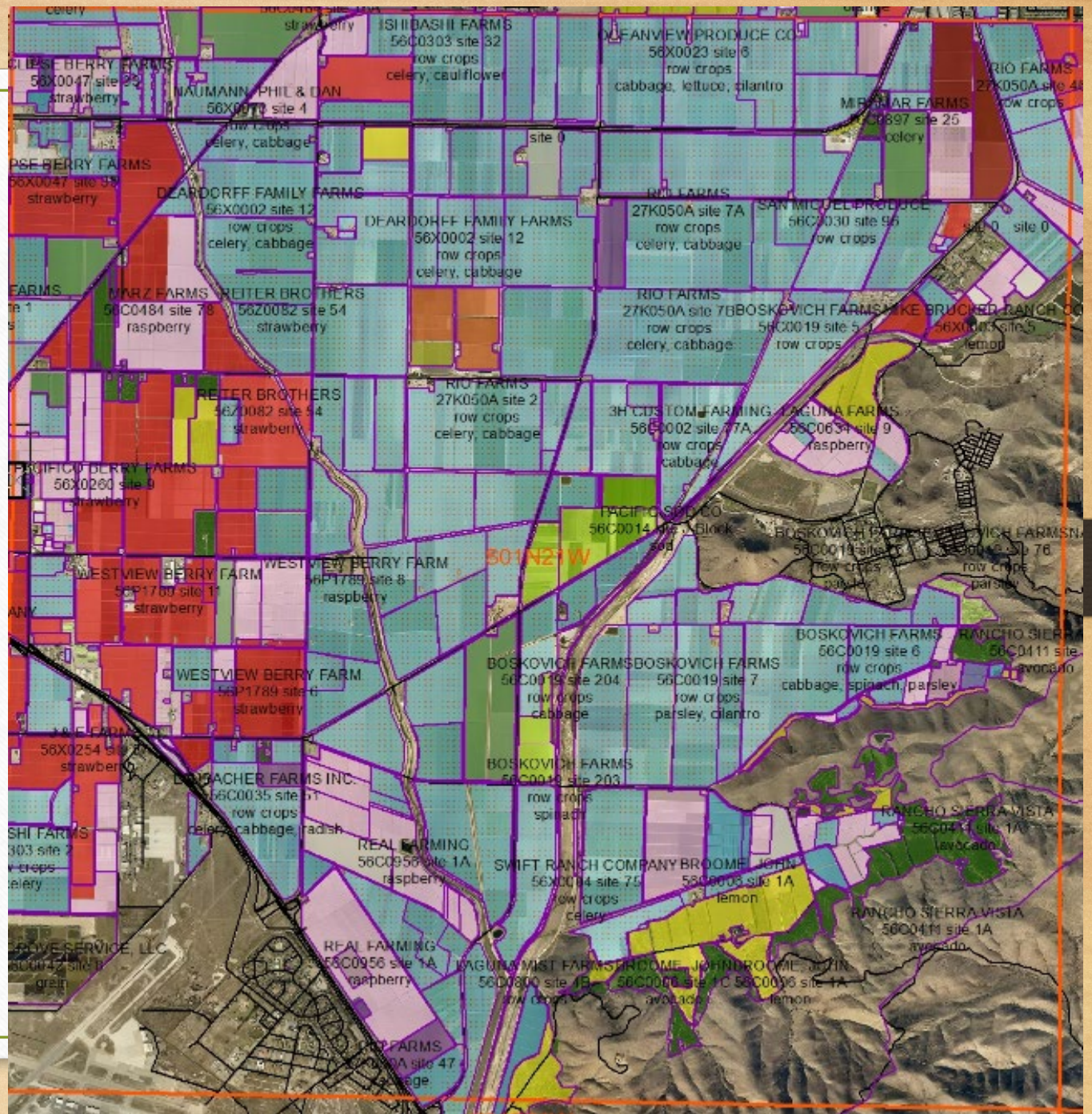


1,3-D Township and Range Monitoring

S01N21W

Adjusted total pounds (ATP) allowed:
136,000 pounds in each township for each
year.

All applications of 1,3-D are prohibited in
December.

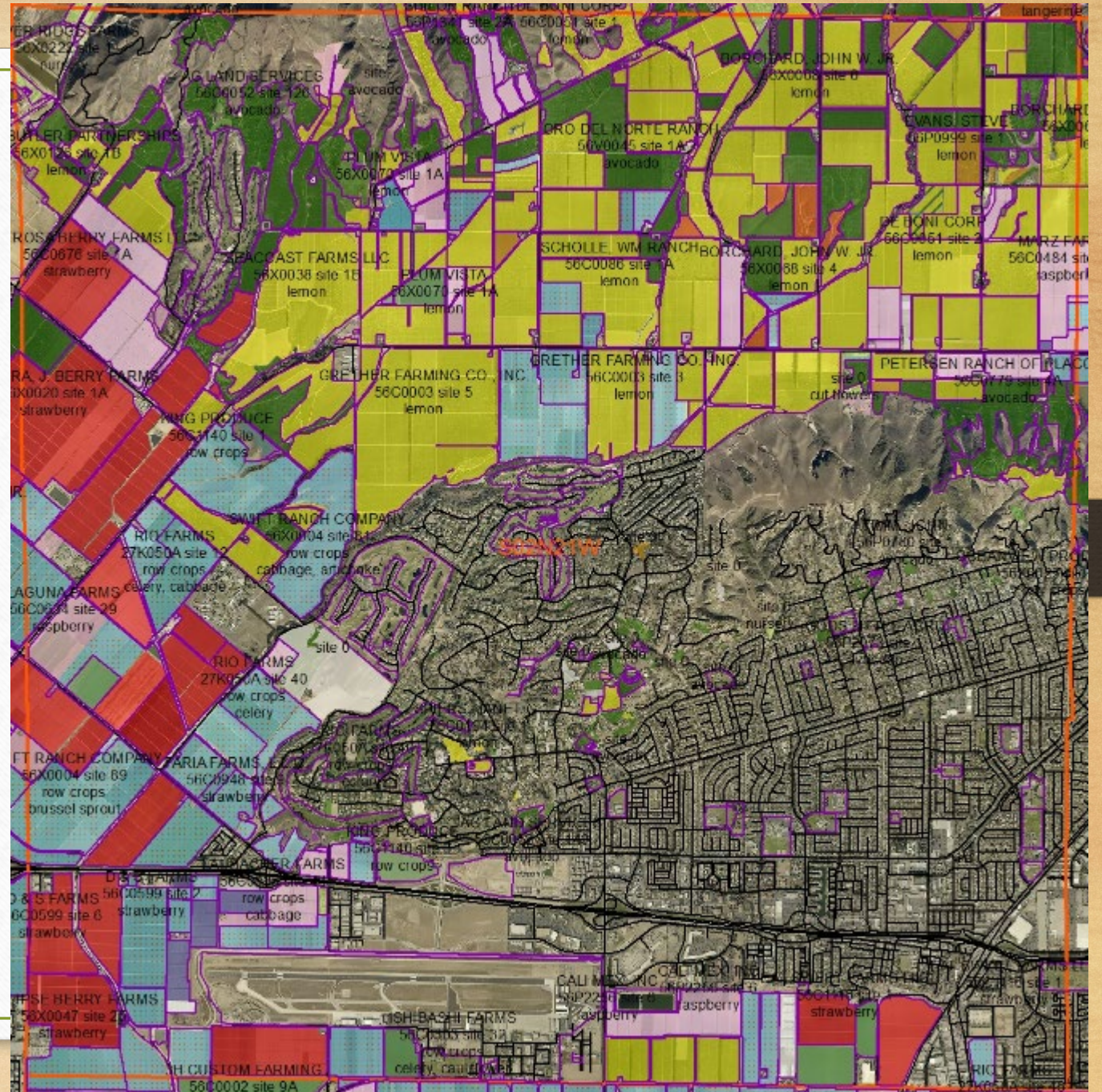


1,3-D Township and Range Monitoring

S02N21W

Adjusted total pounds (ATP) allowed: **136,000 pounds** in each township for each year.

All applications of 1,3-D are prohibited in December.

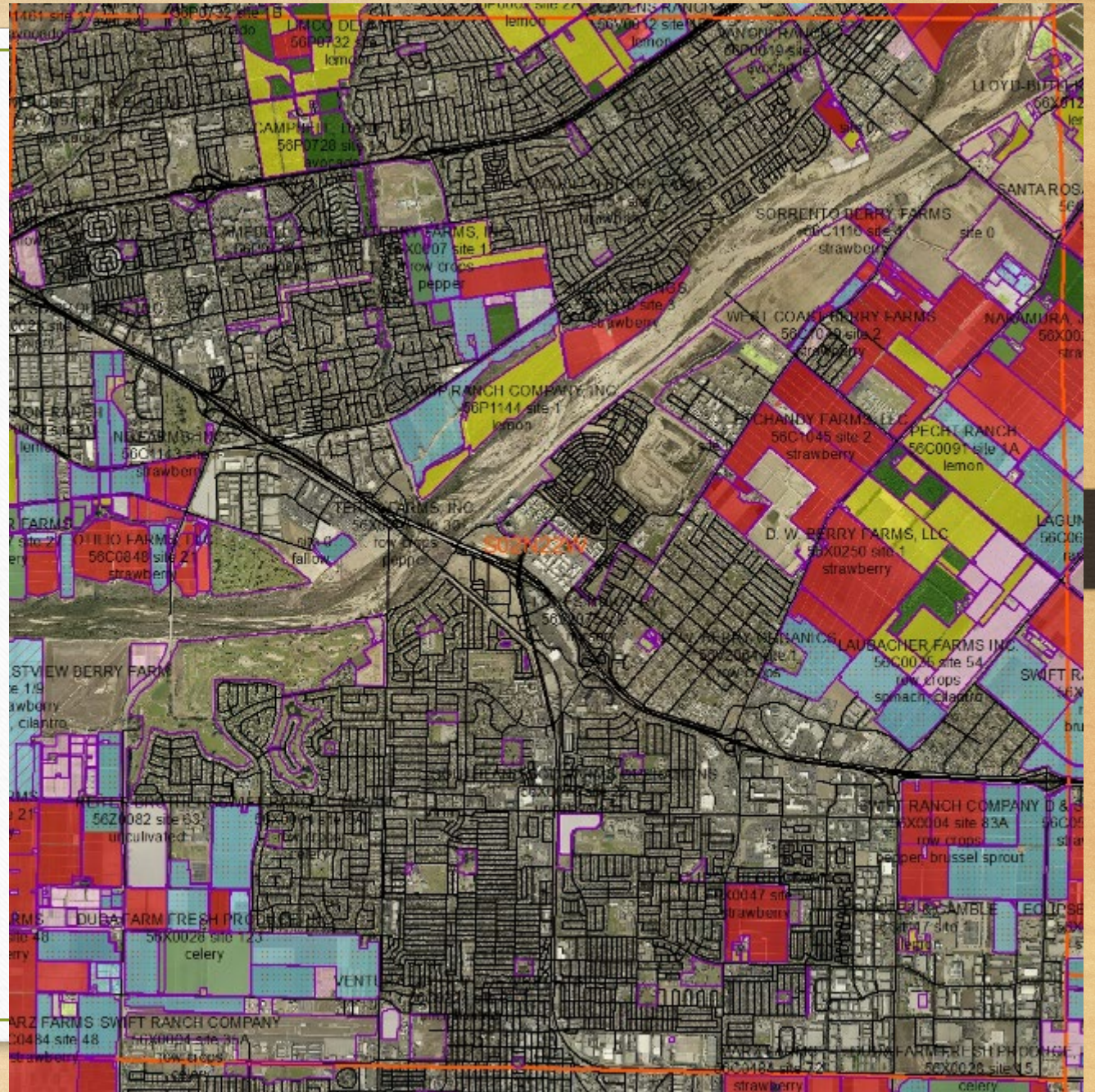


1,3-D Township and Range Monitoring

S02N22W

Adjusted total pounds (ATP) allowed: **136,000 pounds** in each township for each year.

All applications of 1,3-D are prohibited in December.



1,3-D

Follow additional conditions until final conditions are adopted by the county:

Appendix J

http://www.cdpr.ca.gov/docs/enforce/compend/vol_3/append_j.pdf

Metam Sodium and Metam Potassium

- Drip applications must start no earlier than ONE hour after sunrise and must be completed no later than ONE hour before sunset.
- Metam Sodium drip applications minimum buffer zone is 100 feet.
- Metam Potassium drip applications minimum buffer zone is 90 feet.

- Application site monitoring as described in this permit condition is SEPARATE from the “Fumigant Site Monitoring” option of the “Emergency Preparedness and Response Measures” specified on the label, and must be conducted for each application.
 - Pre Application
 - During Application
 - Post Application

RESUBMITTALS

Reasons to Resubmit:

Date Change

Acreage Change

Schedule Change

Permission/Vacating Agreement could not be obtained by start date

24 HOURS is REQUIRED for ALL Resubmittals

Resubmittals must be a “clean” copy (without written conditions added)



Fumigation Forms and Conditions are **ALL** being UPDATED:

- Fumigant Permissions
- Fumigant Vacating Agreement
- Specific Fumigant Conditions
- Ventura County Field Fumigation Conditions

Decontamination Facilities Update

Scope: For all pesticides:

- Commercial or research production of an agricultural plant commodity - employees handling any pesticide.
- Non-production agriculture and non-agriculture settings - employees handling pesticides with the signal word “DANGER” or “WARNING”.

Contents:

- Sufficient water, at least three gallons at the beginning of each work day per handler
- Sufficient soap
- Sufficient single use towels
- One clean change of coveralls at each decontamination site

At the mixing/loading site:

- Immediate access to a system delivering gently running water at a rate of least 0.4 gallons per minute for at least 15 minutes, or at least six gallons of water in containers suitable for providing a gentle eye-flush for about 15 minutes for emergency eye-flushing, if the product labeling requires protective eyewear or a closed mixing system is used.

Application Exclusion Zone

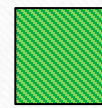
"Application exclusion zone" (AEZ) means the area surrounding the application equipment ("halo") that must be free of all persons other than appropriately trained and equipped handlers during pesticide applications. The AEZ moves with the application equipment.

No employer shall direct or allow any person, other than the persons making the application, to enter or remain in the AEZ and corresponding treated field during the application.

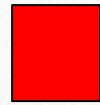
The area that extends 100 feet horizontally from the application equipment in all directions during application when the pesticide is applied by any of the following methods: aerially; air blast; as a fumigant, smoke, mist, or fog; or as a fine spray.

The area that extends 25 feet horizontally from the application equipment in all directions during application when the pesticide is applied in a manner not specified in (a) and is sprayed from a height of greater than 12 inches from the soil or planting medium using at least a medium spray.

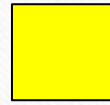
Application Exclusion Zone



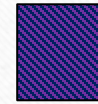
Site



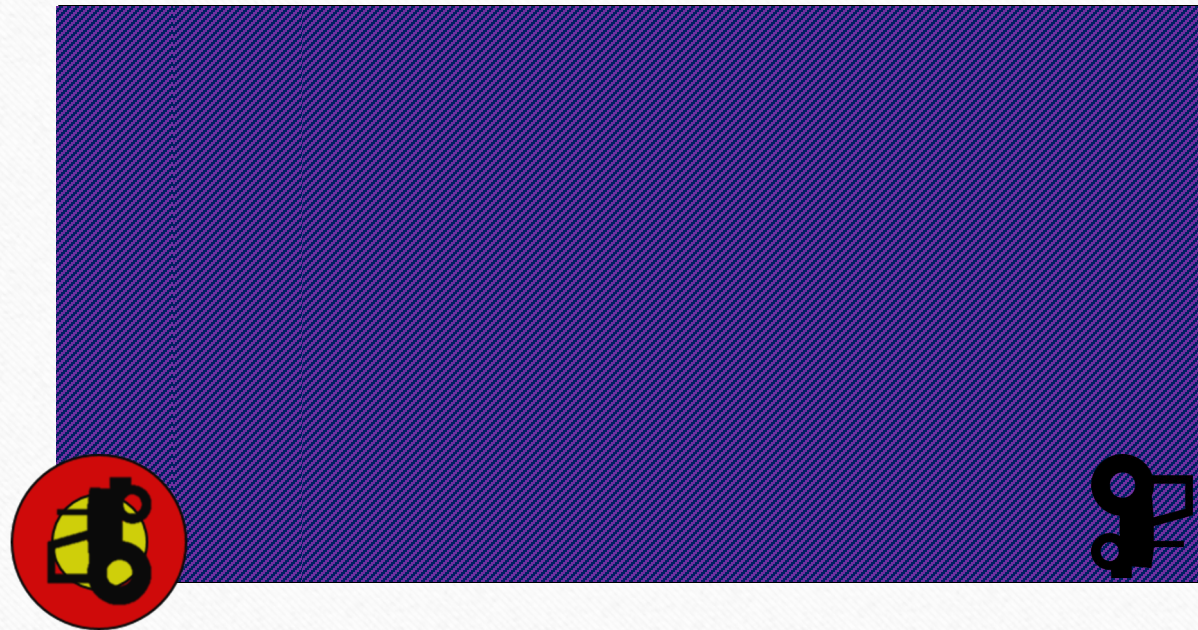
AEZ



Application



Treated Area





**Ventura County
AGRICULTURAL
Commissioner**

Serving Ventura County Since 1895



Pesticide Container Recycling Event

MAY 2, 2017

By appointment only

Time: 10:00 am - 3:00 pm

Location: Fruit Growers Supply

980 W. Telegraph Road

Santa Paula, CA 93060

**At NO COST
to the grower**

Contact:

Christy Robinett (805) 388-4222 ext 7147

(En Español) Blanca E. Pratt (805) 388-4222 ext 7144

Review the website for container requirements at:

<http://www.interstateagplastics.com/>

Please do not drop off your containers prior to this date.



Questions?

Contact Information:

Blanca Enriquez-Pratt

Supervising Agricultural Inspector Biologist

Ventura County Agricultural Commissioner's Office

555 Airport Way Suite I

Camarillo, Ca. 93010

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