

Field Fumigation Update

**Santa Cruz County
Agricultural Commissioner's Office**

175 Westridge Drive
Watsonville, CA 95076
(831)763-8080

www.agdept.com

Juan Hidalgo
Agricultural Commissioner



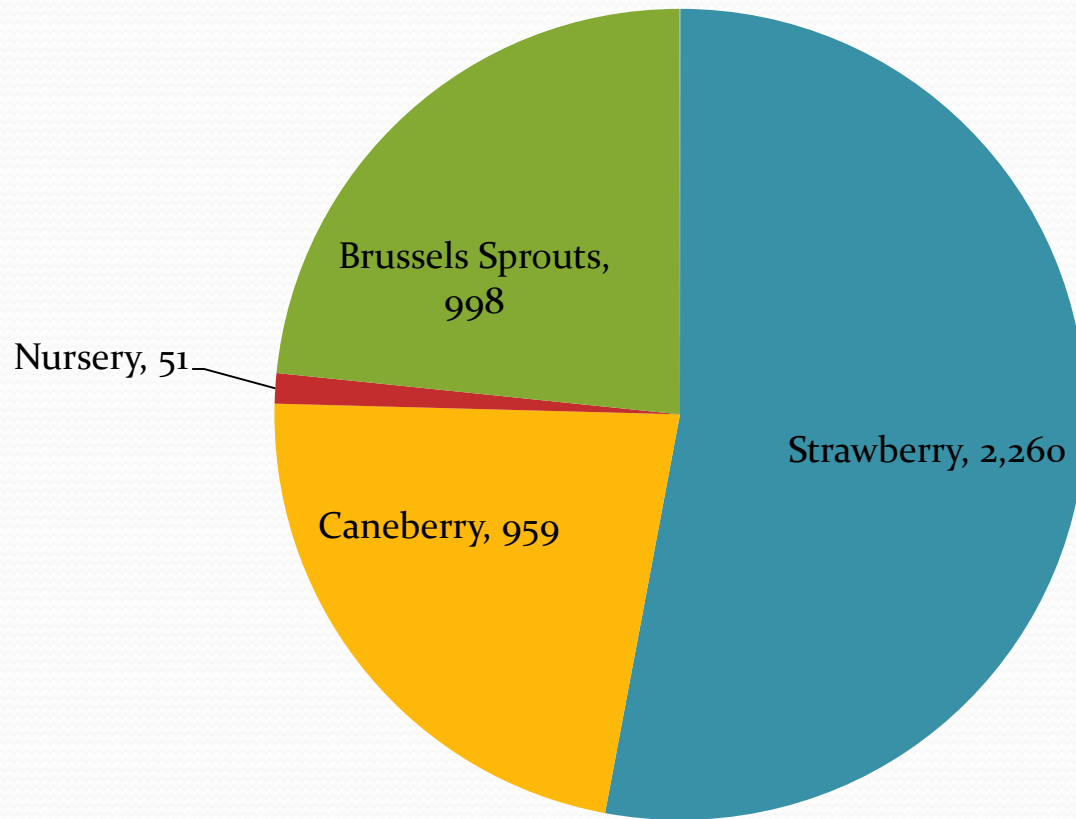
2015 Fumigation Season Review

- 2015 Fumigation season statistics
- Areas in need of improvement
- 2016 Santa Cruz County fumigation Permit Conditions
- Pesticide Use Near School proposed regulation

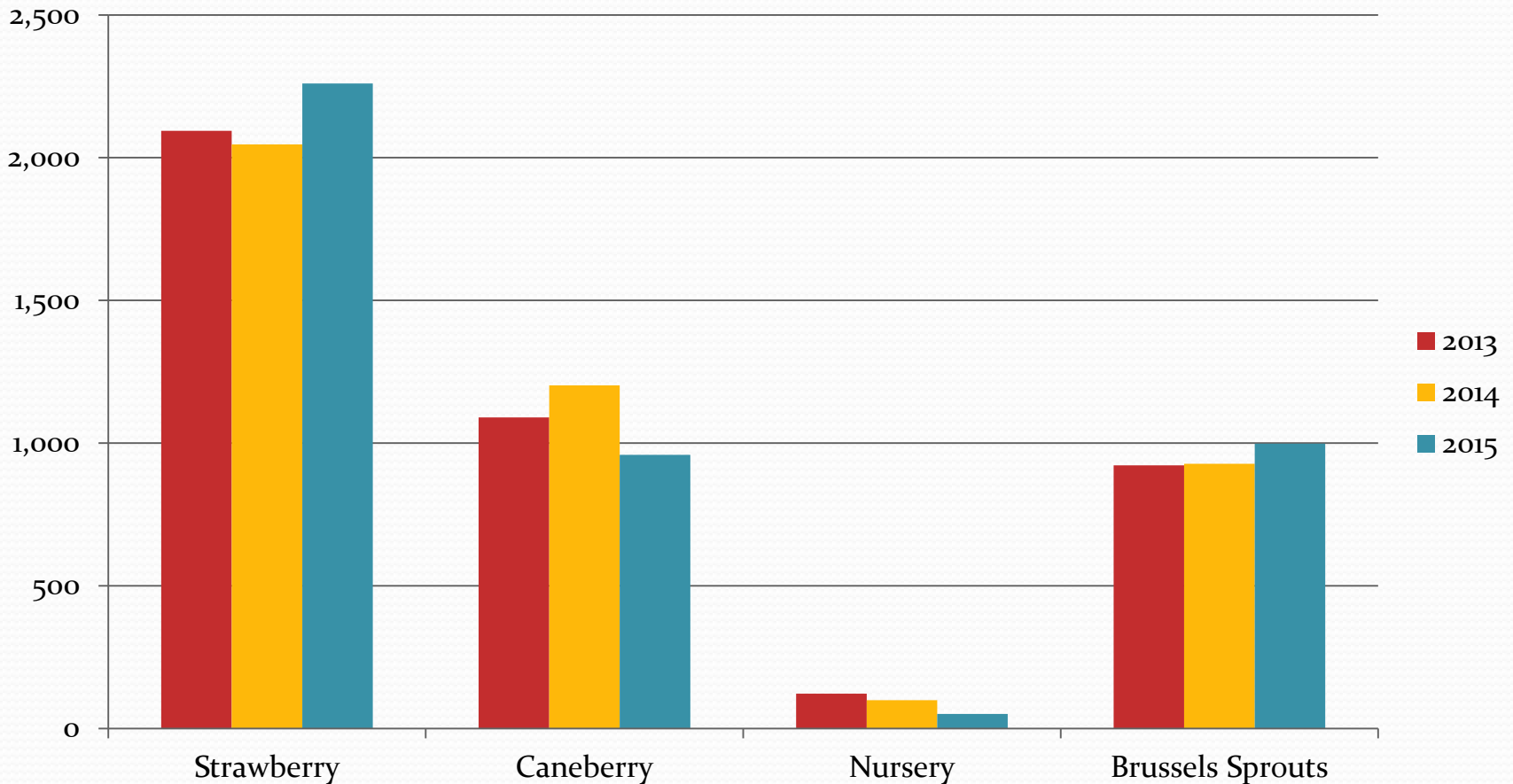
Top Commodities Fumigated:

- Strawberry
- Caneberries
- Brussels Sprouts
- Nursery

Total Acres Fumigated in 2015: 4,268



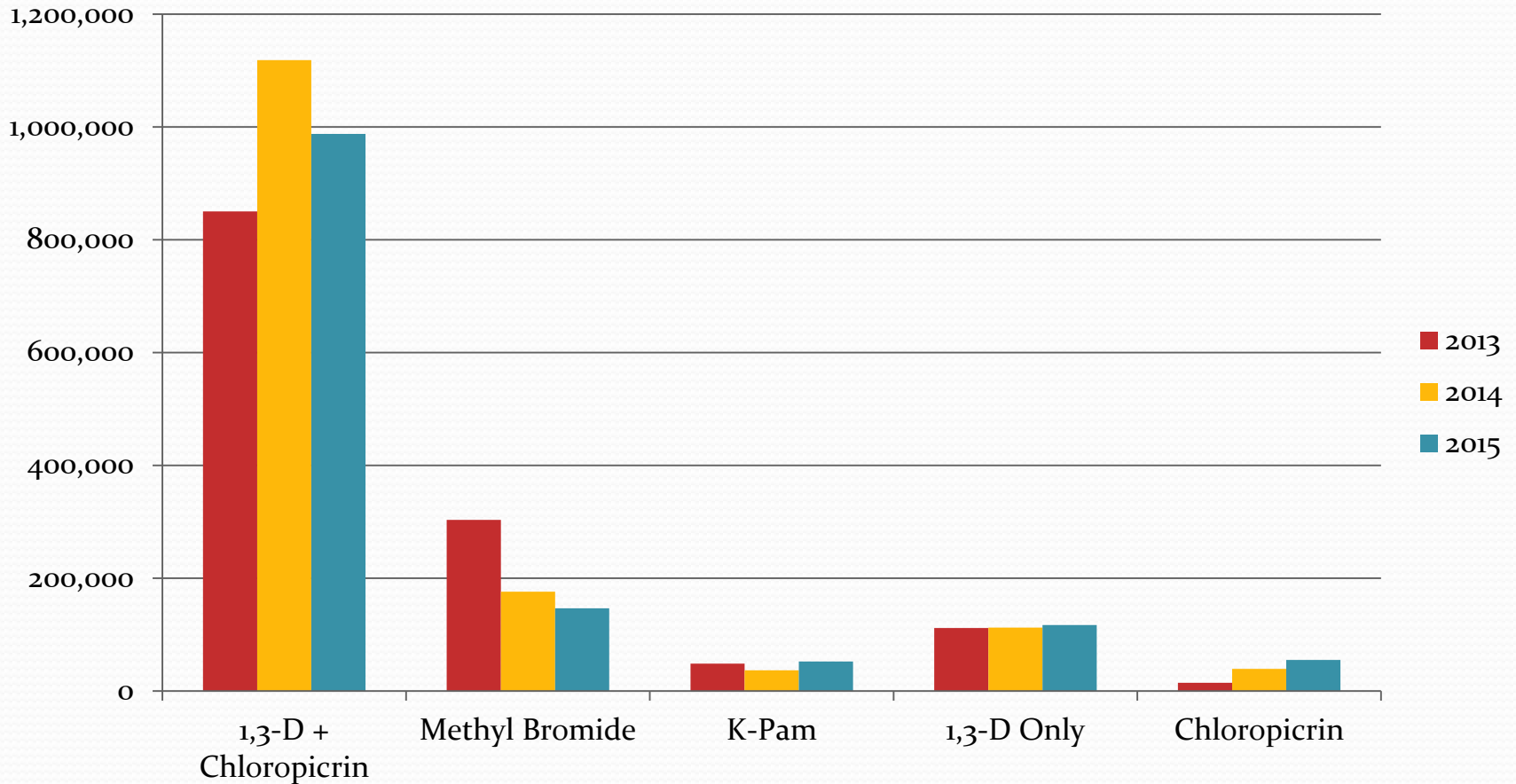
3 Year commodity acreage comparison



Fumigants used in 2015

• 1,3-D + Chloropicrin	987,667 lbs
• Methyl bromide	146,442 lbs
• 1,3-D Only	116,918 lbs
• 100% Chloropicrin	55,094 lbs
• K-Pam	52,293 lbs
Total	1,358,414 lbs

3 Year fumigant use comparison (pounds)



Areas in need of improvement: Communication

Continue to improve communication about posted buffer zones with:

- fieldworker crews
- PCAs
- Neighbors

Ensure employees understand what buffer zone postings are and their purpose

Ensure your field supervisors know when a buffer zone has expired and when signs can be taken down to allow access to harvest areas



Areas in need of improvement: Communication

Ensure adjacent operators receive notification at least 48 hours ahead that a buffer will be posted on their property

Ensure employees and other persons stay outside posted buffer areas

Remember that employees or other persons are not allowed to walk thru buffer zones

Buffer zones cannot be used as parking areas



Areas in need of improvement: Be Proactive

Anticipate potential problems
and plan accordingly

Consider alternative solutions
to challenges



Areas in need of improvement: Be Proactive

Identify potential problems
before they occur

If you believe there is a risk of
exposure to fieldworkers or
other people nearby ask them
to leave the area



Areas in need of improvement: Be Proactive

Be aware of changing weather conditions

Monitor your fumigated fields for signs of problems

Ensure the safety of people nearby

Contact your PCA and Agricultural Commissioner's office when a fumigated field has been compromised



Take Time to: Understand Fumigation Requirements

Review fumigant label requirements and specific county conditions

When unsure about a requirement or condition contact your PCA or local Agricultural Commissioner

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 symphyans 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**
POISON [Note : « Poison » will be printed in red.]

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

IN ALL CASES OF OVEREXPOSURE, GET MEDICAL ATTENTION IMMEDIATELY.
TAKE PERSON TO A DOCTOR OR TO AN EMERGENCY TREATMENT FACILITY.

FIRST AID	
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after 5 minutes, and then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

Take Time to: Prepare

Proper field preparation:

Essential for effective fumigation

Essential to maintain tarp integrity



Take Time to: Prepare

Proper field preparation:

Prevents delay in the fumigation schedule

Reduces potential exposure to fieldworkers and others

Reduces additional work to make repairs



Take Time to: Prepare

Proper field preparation:

Ensures compliance with laws,
regulations and conditions

Ensures that a fumigation can
be done safely and approved
by the Agricultural
Commissioner's office



10.27.2015 11:00

2016 Santa Cruz County Fumigation Conditions

- It is anticipated that fumigant conditions for 2016 will remain largely unchanged
- There will be some minor language revisions to provide better clarification in some areas

2016 Santa Cruz County Fumigation Conditions

This year Santa Cruz County will use the Department of Pesticide Regulation (DPR) Approved Buffer Zone Reduction Tarp list

DPR's Chloropicrin tarpaulin list

Tarpaulins to receive 60% buffer zone reduction credit

Tarpaulin to receive a 60% buffer zone reduction credit for chloropicrin field fumigations are listed below: *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

2016 Santa Cruz County Fumigation Conditions

General Conditions include the following:

- A site specific fumigation plan must be submitted for evaluation
- Use of approved buffer zone reduction tarps for products containing chloropicrin
- Tarps cannot be perforated until 216 hours (9 days) have elapsed from the time of fumigation completion
- Applications must be done by a registered Pest Control Business

2016 Santa Cruz County Fumigation Conditions

- Buffer zone credits are allowed for qualified tarps only (except methyl bromide)
- Notice of Intent to fumigate must be submitted at least 48 hours prior to the start of the fumigation
- Proposed fumigations within a $\frac{1}{4}$ mile of a public school must be submitted at least 5 days prior to the start of the fumigation

Future DPR Regulation: Pesticide Use Near Schools Notification

- DPR is in the process of drafting the proposed regulation
- It is anticipated that DPR will announce a Notice of Proposed Rulemaking soon
- There will be a 45 day comment period for the public to provide input on the regulation
- It is anticipated that DPR will host public hearings in different locations in California
- Regulation expected to be effective in 2017

Pesticide Use Near Schools Notification: Regulation Concepts

- Will require growers to provide notification to schools ahead of intended pesticide application
 - For pesticides used near schools, some exceptions may apply
 - For applications within a certain proximity to schools
 - For applications made when school is in session

Pesticide Use Near Schools Notification: Regulation Concepts

- Will include additional restrictions on pesticide applications near schools
 - Specific restrictions for applications of certain pesticides
 - No spray buffer area when school is in session
 - No spray buffer area near schools when using certain application methods and equipment



Questions?