

# CSC Research and Regulatory Update

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California Strawberry Commission

# Lygus Chemical Control Update

- Rimon (novaluron)
  - Apparently has a Canadian MRL
- Clutch (clothianidin)
  - Full registration expected in 2011 W/Canada MRL
- Sulfoxaflor (new chemistry), Dow
  - Strawberry registration likely in 2013
- CSC is evaluating other options
  - Training for using the degree day model
  - Farm level evaluation of insecticide resistance

# Midas Registered on 12/1/2010

- Must wait 14 days before cutting tarp
- Must use high barrier tarps (VIF, TIF)
- Larger buffer zones
- Applications prohibited within one-half mile of occupied schools, hospitals and nursing homes.
- Buffer zones will be slightly smaller than originally calculated

# New Federal Labels for Fumigants

- Some of the new label restrictions will start in 2011
  - Non-CUE uses will be dropped except for raspberry (2015)
  - Site management plans for all fumigants (2011)
- Changes to buffer zones and credit for high barrier tarps (2012)

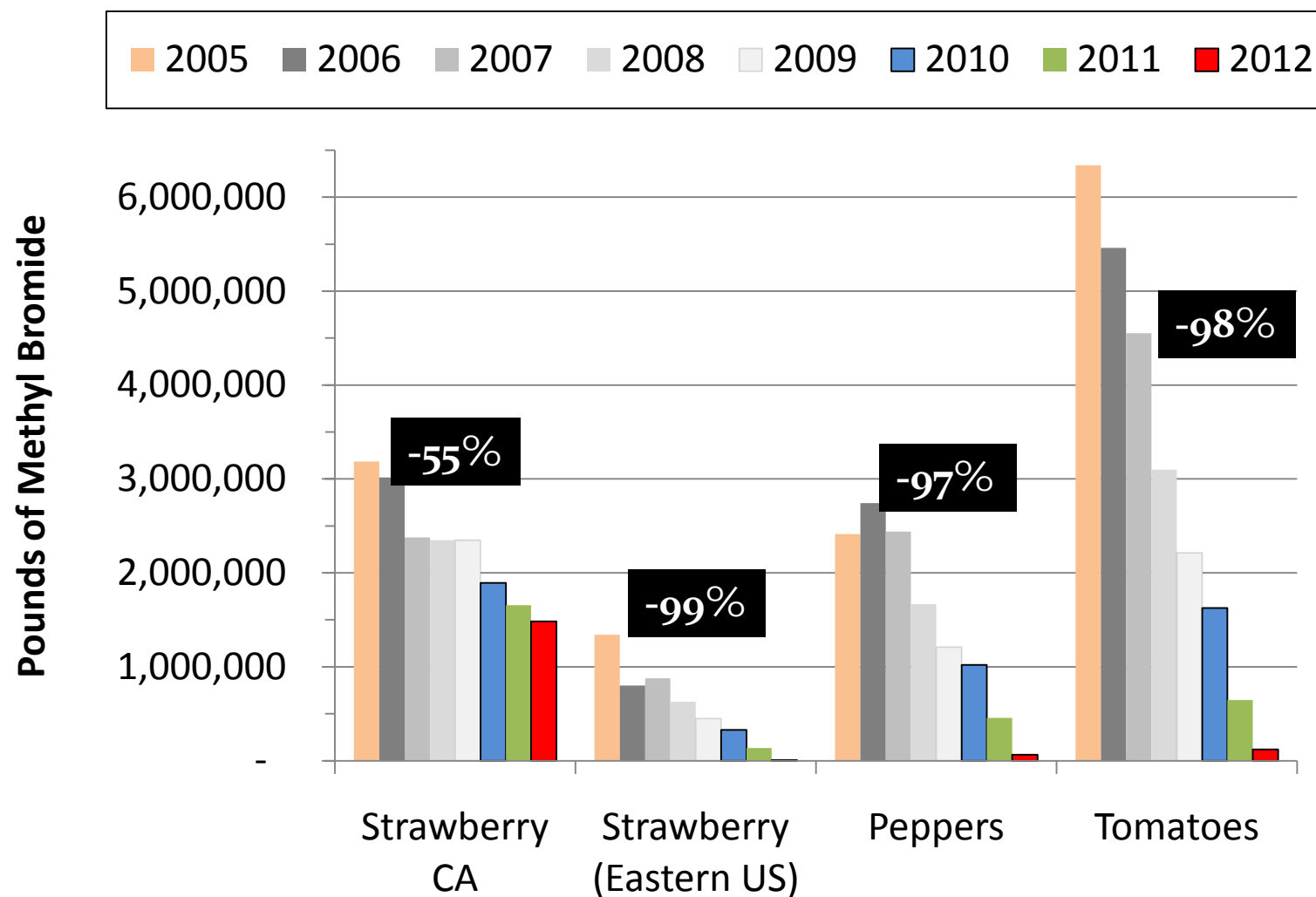
# New California Regulations

- New township cap for methyl bromide
  - 171,625 lbs/township per month
  - Reduction in maximum work hours during applications (about an hour)
- Chloropicrin reassessment to begin in 2011

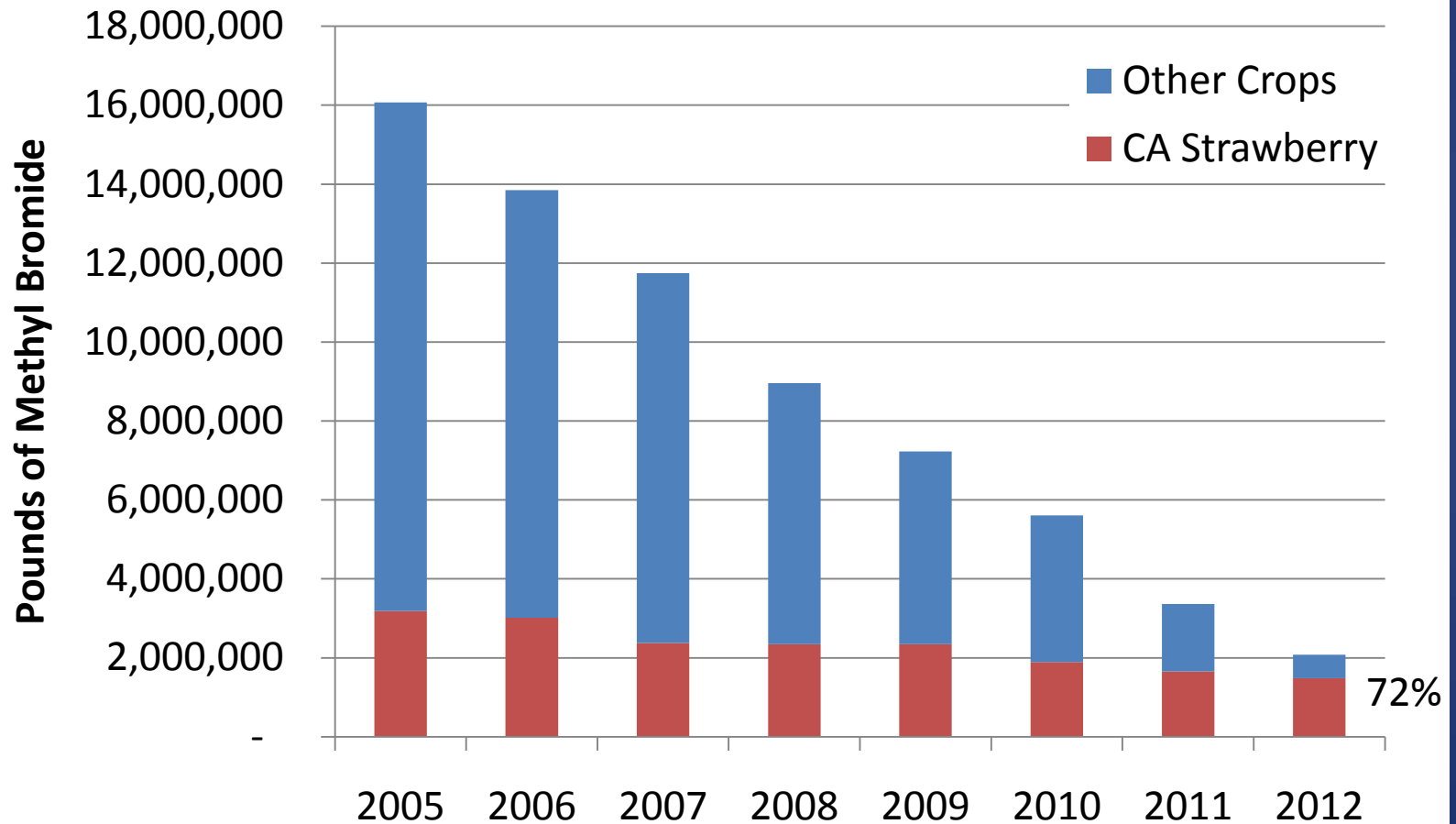
# Methyl Bromide CUE

- CA strawberry has been awarded:
  - **1.89 million** lbs for 2010
  - **1.65 million** lbs for 2011
  - **1.48 million** lbs for 2012
- Pre-2005 stockpiles of MB still available
- QPS (strawberry nursery) uses currently exempt but the EU is trying to eliminate them (shift to CUE)

# US CUEs for Pre-plant Uses (2005-12)

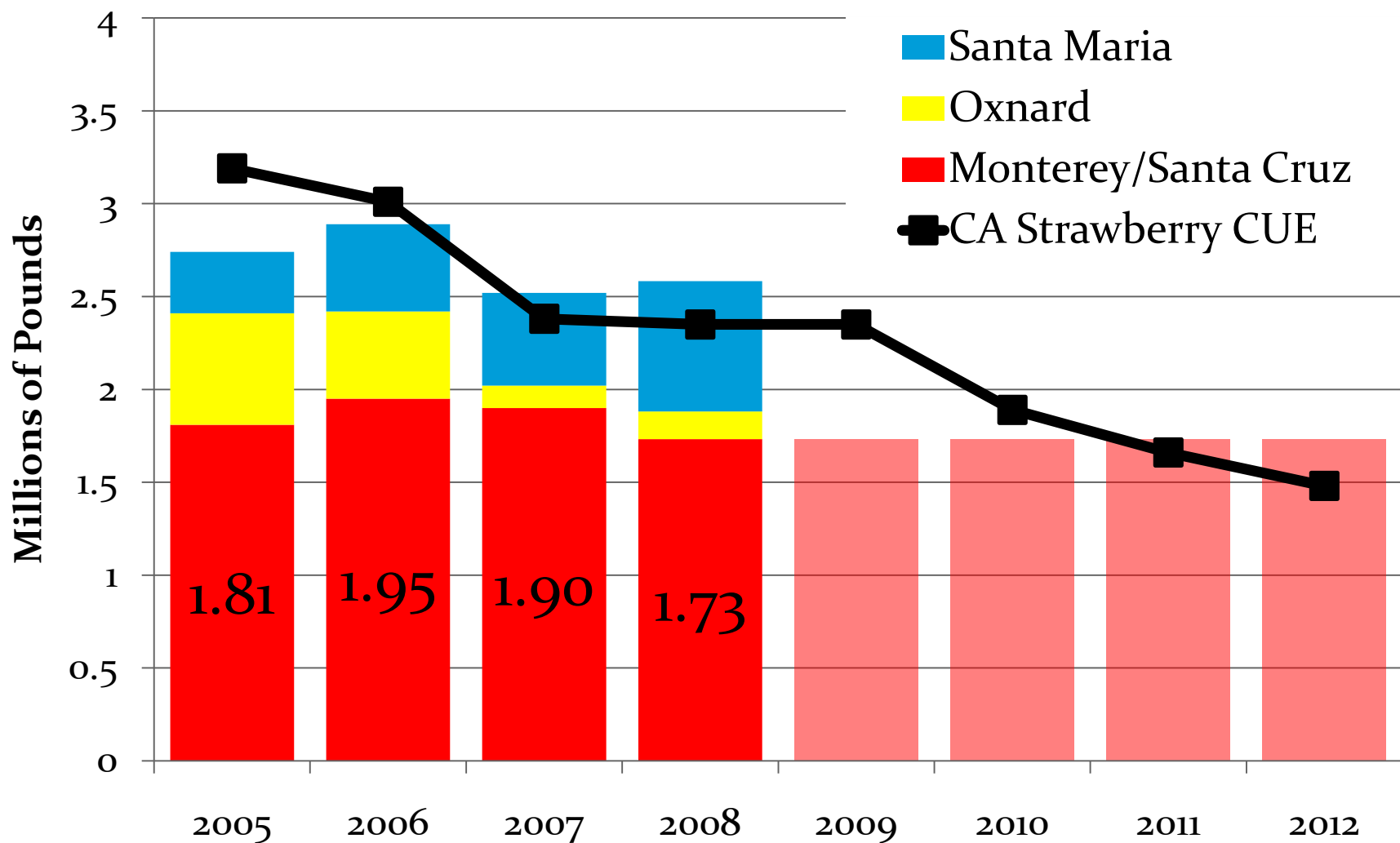


# US MB CUEs for Pre-Plant Uses





# Methyl Bromide Use on Strawberry



# New Draft of Ag Order (11/16/2010)

- Dischargers must not cause or contribute to exceedances of pesticide, toxicity, nutrient, sediment, turbidity, temperature and salt water quality standards.
- Dischargers may have to implement best management practices, treatment or control measures, or change farming practices to achieve compliance with this order.

# Central Coast Water Quality Control Board-11/16/2010 Ag Order

<b>Tier 1 (Low risk)</b>	<b>Tier 2 (Moderate Risk)</b>	<b>Tier 3 (High Risk)</b>
No chlorpyrifos or diazinon	Uses chlorpyrifos or diazinon	Uses chlorpyrifos or diazinon
>1000 ft from listed waterbody	-or- <1000 ft	-and- >1000 ft
<1000 total irrigated acres	-or- >1000 irr. acres	-and- >1000 irrigated acres

# New Ag Order (Tier 1,2 &3)

- Must sample all wells
- Must monitor receiving water quality to determine short and long term patterns in quality
- Must monitor individual discharges
- Must submit monitoring reports
- Must complete 15 hrs of water quality education

# New Ag Order (Tier 2 & 3)

- Must conduct/submit photo monitoring of riparian, stream and wetland habitat every 3 years
- Must calculate and submit nitrate loading “risk factor” and report total nitrogen used, and those with a high risk in tier 3 must determine the typical nitrogen crop uptake for each crop and implement an approved management plan
- Tier 3-Must develop a water quality buffer plan to protect impaired waterbodies

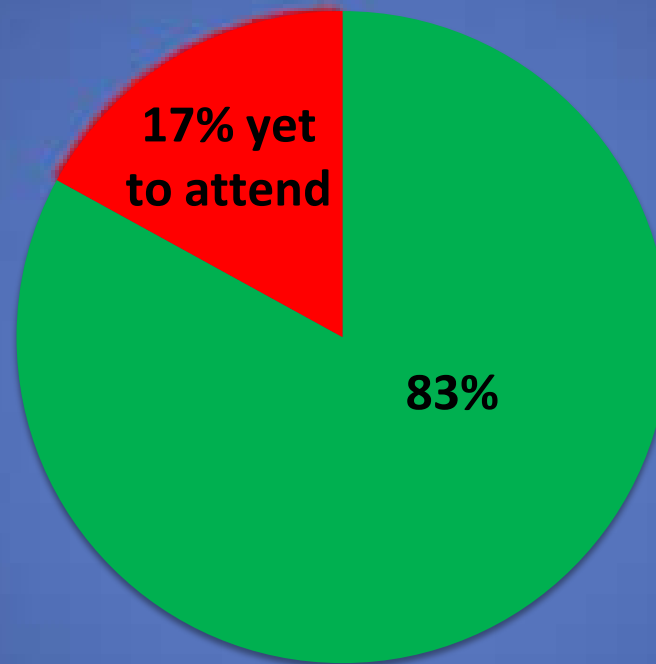
# Timelines for Ag Order

- 6 months
  - Start monitoring receiving water
- 12 months
  - Monitoring of wells
- 18 months
  - Complete 15 hrs of education
  - Implement farm plan
- 1-2 years
  - Submit groundwater report
- October 1, 2012 (Tier 2 & 3)
  - Photo monitoring, nitrate loading risk,
- October 1, 2014 (Tier 2 & 3)
  - nitrogen use
- Tier 3 has too many requirements and deadlines to list here

# Food Safety

- In 2007, we identified Food Safety as the Commissions top priority
- In 2008, we conducted an industry wide food safety assessment (SIFSA) We developed a food safety training program
- In 2009, we released the CSC Food Safety Flip Chart
- In 2009, we started our Food Safety Training program

# Grower Participation in Training



**378 of 455 growers participated**



# Ranch Food Safety Manager Certificate

## 1. Attend ALL CSC Food Safety training workshops



Teaching Food Safety



Intro to Food Safety for Field Supervisors



Food Safety for Harvest for Processing



Additional Classes in Development

## 2. Pass Learning Assessment

Certificate Issued

## 3. Participate in ongoing continuing education