

### CSC Research Update

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#### Introduction









#### Region III Waterboard Grant

- 3-year project
  - Santa Maria, Salinas & Watsonville

#### GOALS:

- Develop a pilot voluntary certification program for strawberries
- Define best practices for irrigation and nutrient management
- Recognize & reward strawberry operations that use effective irrigation, nutrient and pest management BMPs
- Cultivate positive relationships with water regulators

### Voluntary Water Quality Certification Program

- Set of BMPs identified by growers through a consensus process and adopted
- List of protocols a company follows that serve as evidence a practice is being implemented
- Third party verification process

## Certification Program Benefits

- Voluntary
- Growers know what to expect to be in compliance
- ▶ BMPs are defined and standards are strawberryspecific
- Regulatory Relief: e.g., move to a lower tier
- Confidentiality: All growing information is maintained by the grower or third party; not to the Waterboard
- CSC will develop training programs for BMPs

### Irrigation Monitoring

- Santa Maria, Watsonville/Salinas, Oxnard
- Irrigation training classes



# CSC Sprayer Calibration Survey (2016)

- What is current status?
  - Surveyed majority of the industry/growers and operations
- Sought information on:
  - ▶ Training
  - Equipment



Photo: M. Bolda

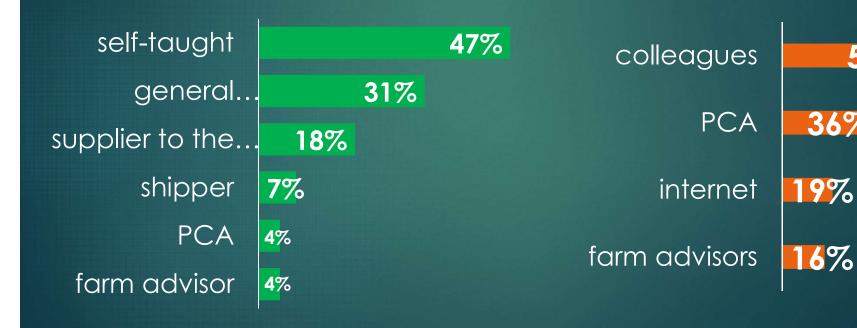
#### Education and Training of **Applicators**



Where do you get information about sprayers?

51%

36%



#### Common Issues

- Mismatched nozzles
- Lack of formal training
- Clogged filters
- Nozzles being used outside of recommended pressure range
- Issues found regardless of grower/shipper size







Different # nozzles/bed



Clogged filters



Design-related (e.g., hoses)



# Sprayer Calibration Training

- Field day and training materials
  - ▶ Targeting
- On-site visits to calibrate farm rigs



#### Vacuum Calibrations

► Contact us!

Calibrate/adjust

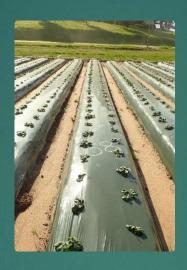


#### Monterey Bay Academy



#### Projects

- ASD
- Low Fumigation
- Nematodes
- Fusarium



Researchers



### Challenges and Opportunities

Fusarium

