

Pesticide Worker Safety Training

Requirements and Ways to Make it More Effective



Lisa Blecker
Pesticide Safety Coordinator
Statewide IPM Program

iblecker@ucdavis.edu

<http://www.ipm.ucanr.edu/>



Field Workers



Pesticide Handlers



Federal, State and County Laws



Federal
Worker Protection Standard
(WPS)

EPA



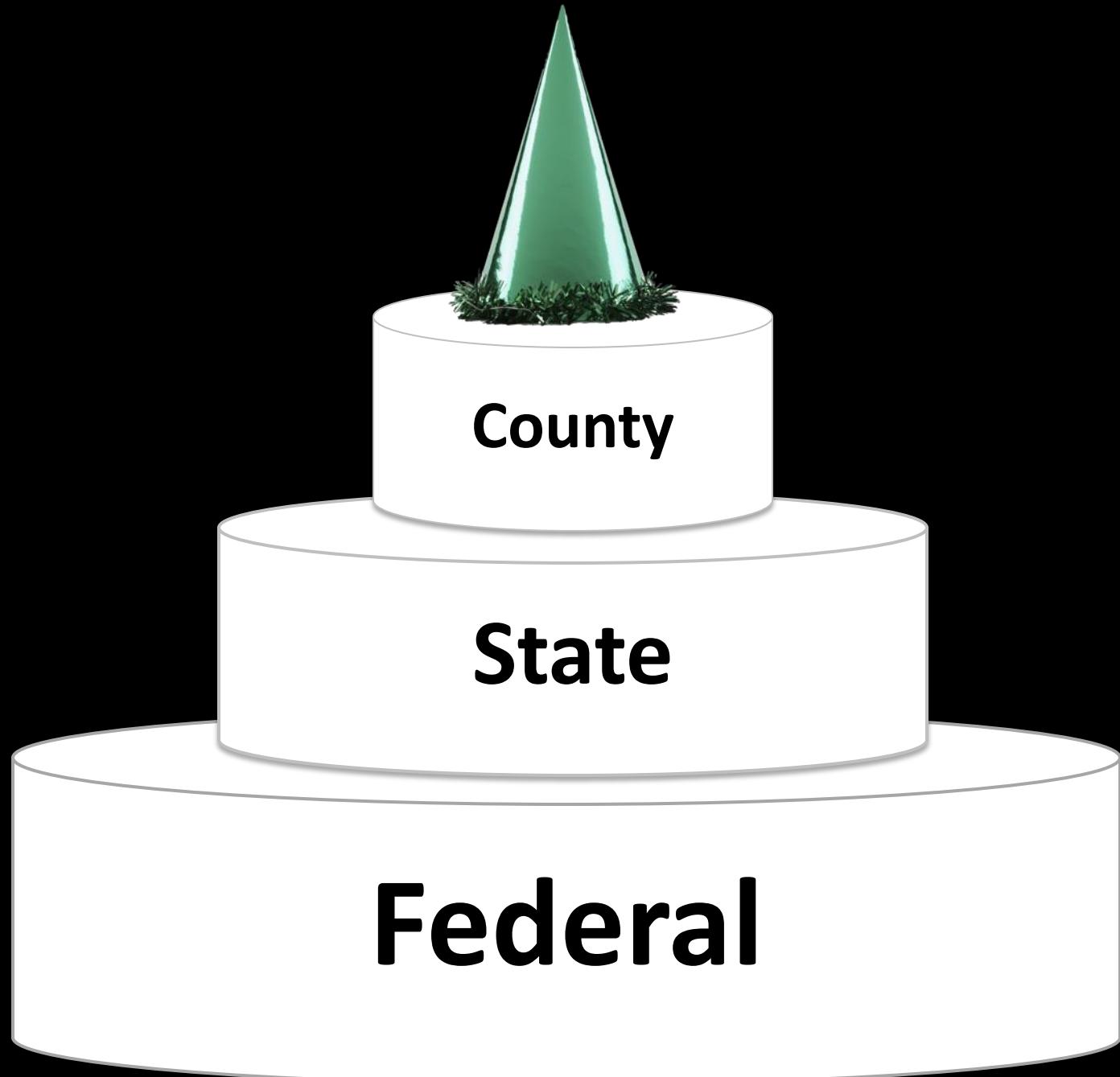
State
California Code of Regulations
(CCR)

CDPR

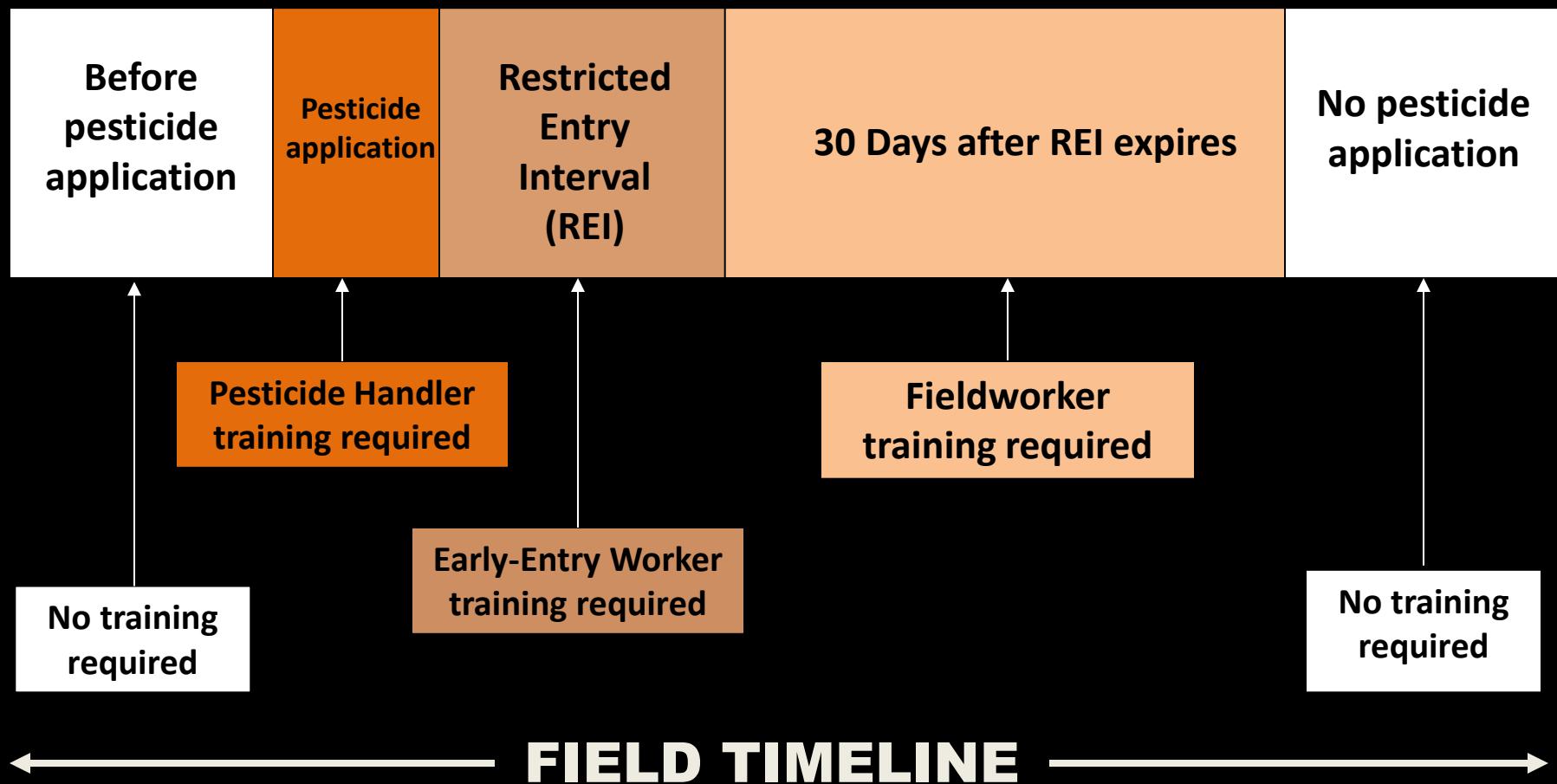


County
Regulations

Commissioners



Training Timeline for Field Workers and Handlers



Section 6764 – Training Requirements for Field Workers

3 CCR § 6764

Title 3. Food and Agriculture

- Division 6. Pesticides and Pest Control Operations
- Chapter 3. Pest Control Operations
- Subchapter 3. Pesticide Worker Safety
- Article 3. Field Worker Safety
- **§ 6764. Fieldworker Training.**

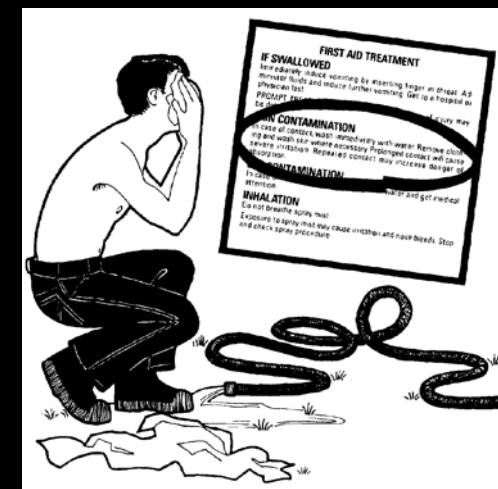
Training Requirements for Field Workers

1. Routine decontamination
2. REIs and posting requirements
3. Where fieldworkers encounter pesticides and residues
4. Routes of entry
5. Pesticide hazards



Training Requirements for Field Workers

6. Common signs and symptoms of pesticide over-exposure
7. First aid and emergency medical care
8. Warnings against bringing home pesticides or pesticide containers
9. Hazard communication program
10. Worker rights



Section 6724 – Training Requirements for Pesticide Handlers

3 CCR § 6724

Cal. Admin. Code tit. 3, § 6724

Title 3. Food and Agriculture

- Division 6. Pesticides and Pest Control Operations
- Chapter 3. Pest Control Operations
- Subchapter 3. Pesticide Worker Safety
- Article 2. General Safety Requirements
- **§ 6724. Handler Training.**

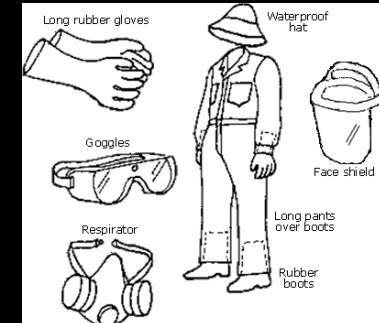
Training Requirements for Pesticide Handlers

1. Pesticide label information
2. Pesticide hazards
3. Routes of entry
4. Common signs and symptoms of pesticide over-exposure
5. First aid
6. Emergency medical care



Training Requirements for Pesticide Handlers

7. Routine and emergency decontamination
8. Personal Protective Equipment
9. Heat stress prevention
10. Handling, transporting, storing and disposing of pesticides
11. Environmental concerns



Training Requirements for Pesticide Handlers

12. Warnings against bringing home pesticides or containers
13. Laws and Regs, MSDS, PSIS
14. Medical supervision for OPs and carbamates
15. Hazard communication
16. Workers rights



Training Requirements – Pesticide Handlers

- Written program
- Every year
- Every new pesticide or group of pesticides



Written Training Program

WRITTEN TRAINING PROGRAM

Employer Name: _____

Trainer's Name: _____

Trainer's Qualification: _____ PA: _____ QAL/QAC: _____ PCA: _____

Training Materials:
Name of videos, pamphlets, or other training materials, and a brief description:

1. _____

2. _____

3. _____

4. _____

Pesticide labeling from the following products:

Pesticide Safety Information Series (PSIS) leaflets used:

Materials Safety Data Sheets (MSDS) for the following products:

Written Training Program

Pesticide Handler Training Program
PESTICIDE SAFETY TRAINING RECORD

Print EMPLOYEE'S Name: Ace Applicator

EMPLOYEE'S Signature: Ace Applicator

Print EMPLOYER'S Name: University of California

Print TRAINER'S Name: Lisa Bleeker

Trainer Qualifications & I.D./Cert#: QAC # 123456

ASSIGNED JOB DUTIES

Mover/Loader
 Applicator

Service/Repair
 Flagger
 Other

Trainer Initials

Employee Initials

Specific Pesticides	Annual Training	Ground Pesticide Worker or Garden Adv.

Subjects as Specified in Section 6724(b) of the California Code of Regulations

READ THE LABEL: Signs with hazard statements, first aid, rate, dilution volume.

✓ ✓ ✓

Applicable laws and regulations, MSTS and PEST leaflet.

✓ ✓ ✓

PROTECTIVE CLOTHING AND EQUIPMENT: Gloves, goggles, boots, respirator, apron. Equipment cleaning and maintenance.

✓ ✓ ✓

USE OF ENGINEERING CONTROLS (i.e., closed system, enclosed cage).

✓ ✓ ✓

SAFELY PROCEDURES: To be followed while mixing, loading, applying pesticides. Procedures for handling non-routine tasks or emergency situations.

✓ ✓ ✓

DRIFT: Confine the spray to the crop. Watch out for people, animals, waterways, or any special hazard.

✓ ✓ ✓

TRIPLE RINSE: PESTICIDE CONTAINERS AT TIME OF USE: Never take home pesticide containers used at work.

✓

STORE pesticides in a LOCKED and posted area or attended by an authorized person.

✓

WEAR CLEAN WORK CLOTHES DAILY. Be aware of pesticide residues on clothing.

✓

WASH hands and arms with SOAP & WATER: Before eating, drinking, smoking, going to the bathroom. Emergency eye flushing technique.

✓

WASH COMPLETELY at the end of each workday. Change into clean clothing.

✓

EMERGENCY MEDICAL INFORMATION: Name, address, phone number of clinic, physician, or hospital emergency room & where information is located.

✓

HEAT RELATED ILLNESS: Prevention, recognition, and first aid treatment.

✓

LOCATION OF PESTICIDE SAFETY INFORMATION SHEETS (PSIS): Material Safety Data Sheets (MSDS), Pesticide Use Records, safety posters, and Required Entry Interval Information.

✓

EMPLOYEE'S RIGHTS: Against discrimination, discrimination. Right to receive information.

✓

NEED FOR IMMEDIATE DECONTAMINATION of skin and eyes when exposure occurs.

✓

SYMPTOMS OF POISONING: Pinpoint pupils, nausea, shortness of breath, dizziness, headaches, blurred vision. Ways poisoning or injury can occur.

✓

ROUTES THROUGH WHICH PESTICIDES ENTER THE BODY.

✓

UNDERSTANDING THE IMMEDIATE AND LONG TERM HAZARDS involved in handling pesticides. Known or suspected chronic and acute effects.

✓

MEDICAL SUPERVISION: Required when working with carbamate or organophosphate pesticides with signal word of DANGER or WARNING.

✓

Safe Use of Pesticides

Health Information

Date of Training
 March 13
 March 13
 April 13

This form available in Spanish

What is Required of the Trainer?

- Present information in a manner the employee can understand
- Use nontechnical terms
- Respond to questions
- Language
- Literacy
- Documentation



What is Covered by WPS

- Farms
- Forests
- Nurseries
- Greenhouses



What is **NOT** Covered by WPS

- Mosquito abatement
- Livestock
- Pasture or rangeland
- Home landscapes
- Ornamental gardens
- Vertebrate pests
- Attractants or repellants
- Post-harvest
- Structural
- Golf courses



Why is WPS Important to Me?



Who Can do the Training?



Adult Learning Principles



Adult Learning Principles



Adult Learning Styles

- Visual
- Auditory
- Kinesthetic



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Teaching Methods and Memory



ears only



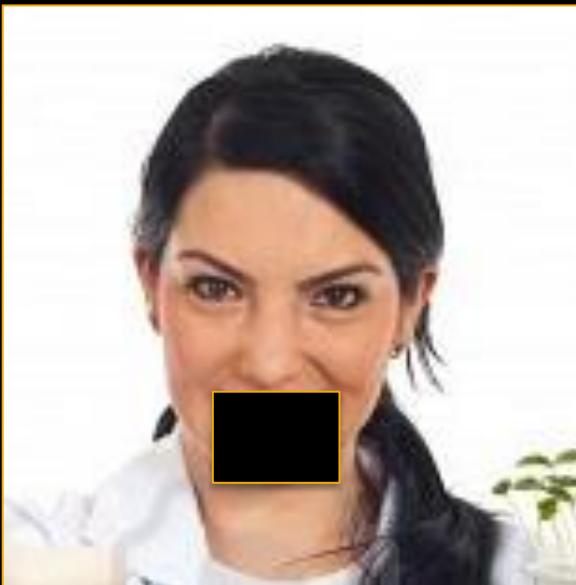
20% retention

eyes only



30% retention

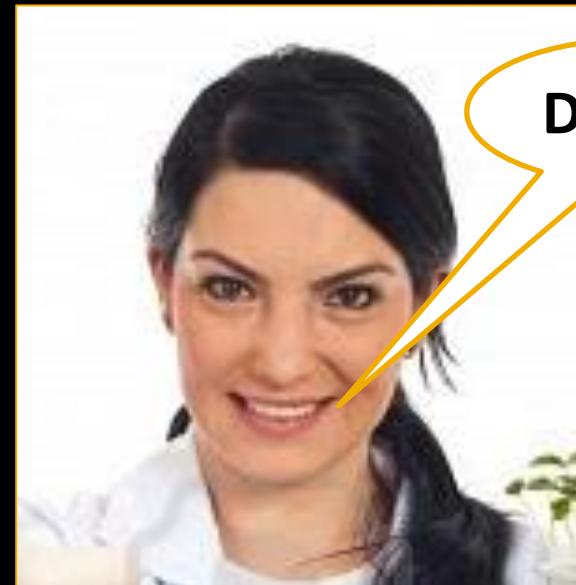
ears + eyes



50% retention

Debate

ears + eyes
+ talking



70% retention

Ears + Eyes + Talking + Repeating + Use



Active Trainings



Discussion Questions

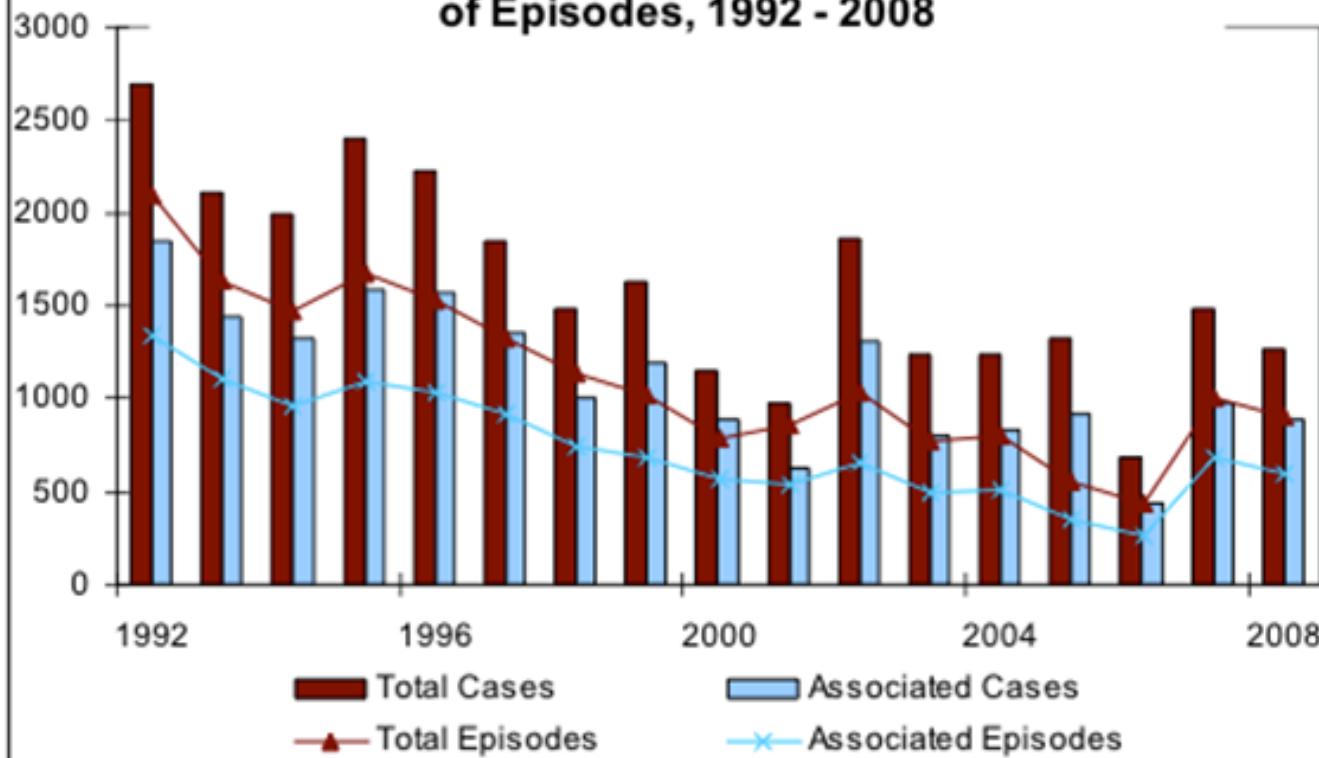
What are some **advantages** to using more interactive techniques?

What are some **disadvantages** to using more interactive techniques?

Discussion Questions

How can we make our pesticide safety trainings interactive?

Figure 1: Number of Cases Investigated vs. Number of Episodes, 1992 - 2008



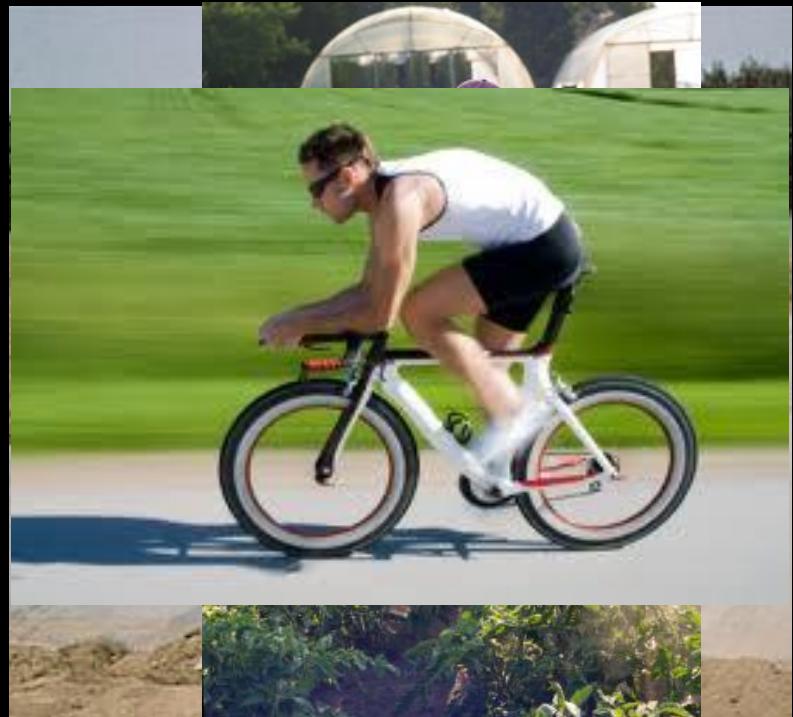
Training and Behavior Change

Training ALONE does not lead to behavior change

We need:

Supervision

Motivation



Pesticide Safety Train-the-Trainer

- **February 12, 13* Modesto (English)**
- **February 18*, 19 Woodland (English)**
- **March 12, 13* Salinas (Spanish)**
March 18* Tulare (English)
- **March 19 Bakersfield (Spanish)**

***= refresher course only**

Questions?

Lisa Blecker

Pesticide Safety Education Program

UC Statewide IPM Program

lblecker@ucdavis.edu

(530) 750-1251

<http://www.ipm.ucdavis.edu/>