NIOSH 2012 PPT Stakeholders Meeting
Pesticide Handling Sector
3:00-4:30 PM EDT

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Hyatt Regency, Pittsburgh, PA
March 20-21, 2012

* This meeting is being recorded
Acknowledgements

- Support team
  - Dennis Groce
  - Chuck Urban
  - Barb Sheppard
- Stakeholder partners
- Federal EPA

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Housekeeping

- Live meetings
- Microphones
- Videotape
- ‘Clickers’
- Note cards and evaluations
- Recertification credits (Pennsylvania)

* This meeting is being recorded
Audience Response System (e.g., clickers)
About the Clickers

• Provides audience response
• Instant feedback
• All answers are anonymous
About the Clickers

• Only one response per ‘clicker’
• Push the number that corresponds to your response
• If you want to change your answer, just push a different button
• Once the polling closes, responses are not accepted
Breakout 2: Let’s practice polling...

TELL US ABOUT YOURSELF
NIOSH National PPE Surveillance and Intervention Program among Pesticide Handlers

• Goal is to improve PPE practices
  – Long-term effort includes scientific studies
  – Short-term effort includes interventions based on preliminary input from stakeholders

PPE = personal protective equipment
Research Partners

PPE = personal protective equipment
Identified Potential Barriers

- Farm visits and exhibits
- NIOSH Pesticide PPE
  - Hotline
    - PesticidePPE@cdc.gov
    - 1-888-654-2294
- Stakeholders meetings

PPE = personal protective equipment
Overview of Barriers

PPE = personal protective equipment

1. Lack of Knowledge
2. Difficulty Obtaining
3. Lack of Acceptance

Workplace issues
Cultural issues

Not Provided
NIOSH 2011 Stakeholders Meeting

Goals

Moving From Barriers to Solutions

Prioritize identified barriers and develop solutions

Audience Response System

Which glove is most protective against most classes of pesticides?

48% 43%

Why might someone who is handling a pesticide not understand the correct PPE to wear for a task?

1. Information on the pesticide label is unclear, incomplete or outdated
2. Inadequate Pesticide Safety Training
3. Dealer/Distributor Information Unavailable
4. The PPE packaging label is unclear
When correct PPE is available, what is the major reason it is not accepted?

1. Safety Culture/Enforcement
2. Don’t understand Health Hazard
3. Comfort
4. Functionality
When it is known how to wear PPE properly, what is the most important reason why handlers don’t do it?

1. Feasibility – nature of the job
2. Don’t understand the hazard
3. Safety Culture
4. Comfort
5. Functionality
Improving Universal Safety Culture

March 20, 2012
9:00-10:30 AM EST

PPE = personal protective equipment
Moving From Barriers to Solutions

• Discuss issues and their causes
• Identify priority issues
• Design solution strategies
Universal Safety Culture

• Universal Safety Culture: A shared set of attitudes, values, goals and beliefs that develop common information and practices creating an environment that identifies and eliminates or reduces hazards. Hazard identification and hazard management is performed by everyone without limits or exception.
Universal Safety Culture

- Attitudes/Beliefs
- Values
- Goals
Poisoning

• Two teenage boys took turns using a backpack sprayer and a respirator to apply an organophosphate insecticide. Both were wearing cut off tee shirts, long pants, leather boots with socks.

• The spraying was normally done by the owner who wore tyvek coveralls w/hood. Rubber boots, ski goggles, and gloves.
Poisoning

- The boys took turns operating the back pack sprayer and shared a common respirator.
- The boys were asked to perform the task because of competing priorities
- No training was provided
Poisoning

- Both boys reported being soaked by pesticides, went home and showered repeatedly and then reported to the emergency room with symptoms that included, burning skin, burning eyes, respiratory distress, stomach cramps, headaches and nausea.
Hazard Recognition

• An employee was applying a pesticide to treat larvae on a golf course.
• While mixing the employee noticed a small ground squirrel nearby that was unable to move half of its body and was crawling around in circles.
Hazard Recognition

• The employee pointed the squirrel out to his supervisor.

• The supervisor said “That reminds me, you should probably wear the respirator to mix that.”
Hazard Recognition

• To breath through the respirator the employee needed to place two figures between the face piece and his face to allow air to enter the respirator.

• The respirator was an old military surplus respirator
Topic Information

• What contributes to an “End User” having poor safety culture?

• What factors might influence a poor workplace safety culture?
Attitudes/Beliefs (End User)

- Religious beliefs interfere with PPE
- Does not think that the PPE is effective
- Does not feel they need to wear any PPE
- Nobody else is wearing PPE
- Adopts the group culture of the workplace
Attitudes (Workplace)

• It’s just a regulation, not hazard based
• Does not understand the long term health effects
• Lack of Hazard Recognition
• We’ve always done it this way
• Does not want their business to look unusual
Values (End User)

• Does not understand long term health effects
• The end user doesn’t want to ask for PPE
• Afraid of losing their job if they ask for PPE
• Cultural differences (migrant labor)
Values (Workplace)

• Production is a higher value than employee protection
• Cultural/Language barriers are not addressed adequately
Goals (End User)

- PPE interferes with getting the work accomplished quickly
- Short term work environment
- Paid by the piece
- The paycheck is more important
Goals (Workplace)

• Focus on the business bottom line
• Paid by the task/operation
• Weather/harvest
• Positive social appearance in public eye
Which one of these is most important that we can do something about now?

• Attitudes/Beliefs

• Values

• Goals

• Other category
Next Steps

• What solutions strategies can you think of?

• Are we satisfied with our suggested solutions?

• Who would be the likely key players that could assist with this issue?
Summary
Wrap Up

• Return note cards and evaluations
• Return ‘Clickers’
• Recertification credits
• Best Pesticide PPE Training Techniques Workshop
• Contact us: KFaulkner@cdc.gov
  stanton.e.thomas@state.or.us