























#### Landscape - Best Management Practices

- Be a Licensed Pesticide Applicator
   Basic competency
- Situational awareness training
- Around a Home, Business, Dwelling
   Super sensitive site
  - Pesticide Sensitive List
  - Building vents
  - Spray pressure















# Aerial Overspray Best Management Practices Test wind conditions if lower Watch weather for inversion conditions Dust hanging on a dirt road Smoke not dissipating Low wind conditions Evening and night times







### Which of the following is true regarding pesticide storage?

- A. Pesticides can be stored in food containers when they are properly marked.
- B. Pesticides should be stored near a water source for easy clean-up in a spill-event.
- C. Pesticides are stored in the original labeled containers.





#### Railroad Application - What Happened

- Applicator was treating a railroad
- Person riding his bike along a recreational trail



#### **Railroad Application - Complaint**

- Alleged sprayed with pesticide
- Looked up and saw 10-15 feet away a truck with 8 foot extension sprayer near a railroad









## Railroad Application Investigation Found Interview conducted too long after exposure for testing Applicator company paid for emergency room visit Hospital diagnosis reported chemical exposure Railroad right of way spraying drifted onto trail (prevention narrative)





































#### Deaths from Accidental Ingestion of Paraguat



- EPA is concerned because paraquat is a Restricted Use Pesticide and, like all pesticides, should never be placed into a beverage container.
- Paraquat is highly toxic to humans; one small accidental sip is often fatal and there is no antidote.

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#### Deaths from Accidental Ingestion of Paraquat The product labels clearly prohibit pouring paraquat into food or boycrano containors with

- paraquat into food or beverage containers with the prominently-placed statements:
  - "NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.

"DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE."

#### True Stories

In 2008, an 8-year old boy drank paraquat that had been put in a <u>Dr. Pepper bottle</u>, which he found on a window sill in the garage. <u>He died in the hospital 16 days later</u>. His older brother had used the product on weeds around the house and put it in the bottle in the garage. The older brother obtained the product from a family friend who is a certified Restricted Use Pesticide applicator.

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#### True Stories

In 2003, a 49-year old male <u>took a sip from his coffee cup</u> in which he had poured paraquat herbicide because the product's bottle was deteriorating. He realized his mistake and went to the Emergency Department. At that time, he was vomiting, cold and sweating profusely.

Doses of activated charcoal were administered and his stomach was pumped; morphine was provided for esophageal pain; and he was intubated to support breathing function on the fourth day. Aggressive supportive care continued until <u>he died on the 10th day</u>.

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# A pesticide decontamination kit should contain A. Eyewash, soap and a bath towel B. Water, hand sanitizer, and aspirin c. Soap, water and single-use towels





#### Pesticide Best Management Practices Back to Basics How to do it Right the First Time

- Carefully assess the application site
- Watch wind speed and wind direction
   What is down wind or down slope
- ► Time of application
- ▶ Use buffer zones to sensitive sites







#### ► Applicator Attitude

- ► Assess what sensitive sites are near the application area
  - ► No-spray buffer necessary?
- Set up equipment with appropriate boom height, nozzles, and pressure
- Assess weather conditions: air stability, wind direction and speed
- Make decision to spray or not to spray

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## Best Management Practices Off Target Movement Runoff - key mechanism for moving pesticides to surface waters

















# Which of the following increase drift potential? A. Large droplets and 12 foot boom height B. Low pressure and small droplet size C. High pressure and small droplet size







