

Please use Q&A box (not chat) to ask questions which will be addressed at the end of the presentation

Would really appreciate your responses to the poll at the very end!!

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Horticulture Happy Hour February 3rd, 2021 Jen Andon Currently serves as the Program Manager for the Master Gardener Volunteer Program at The Ohio State University. Received her B.S. in entomology, with a minor in plant pathology from OSU in 2003 and her M.S. in turfgrass entomology in 2008. Was a research technician for 13 years conducting field trials on turfgrass insect pests. In 2016, she joined the Pesticide Safety Education Program as Program Manager. CFAES





OurDefinitions of pestmay differ...

- Lawn fullofcbver
- A few white grubs

• Lalldepends on your tolerance of pests...



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IPM - Integrated PestM anagement

Biological Control

Chemical Control

Cultural Control

CULTURAL CONTROL

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IPM Tools

- Biological control- (parasites, parasitoids, pathogens)
- Cultural control-alter conditions (resistant cultivars, crop rotation)
- Mechanical control-physical, hand weeding, dethatch, exclusion, barriers
- Chemical control-pesticides

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Keep in M ind:

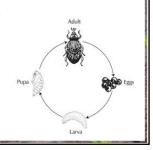
- Must Identify the pest
- The vast majority of arthropods are not pestiferous
- Vary rarely can you completely eradicate a pest, nor is it necessary



Understanding Pest Biology:

- There are specific times in a pests' life cycle in which it is more susceptible to pesticides
- Application tim ing m ay be crucial
- Please reach out to your Extension Educator if you need guidance

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Pesticide Registration

• Pesticides must be registered by the EPA

AND

• Pesticides must be registered by the State of Ohio (ODA)

BUT WAIT!!

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W hataboutM in im um Risk Pesticides?
(25b Products)

• Products that pose little to no risk to hum an health or the environm ent

• Exem pt from regulations under FFRA
• Notevaluated by EPA for risk assessment
• No validation of product perform ance

• Products active & inactive ingredients must be listed in 40 CFR 1522

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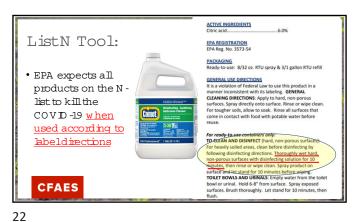


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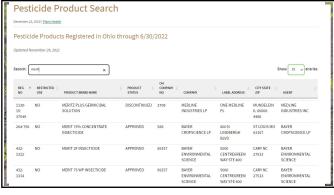


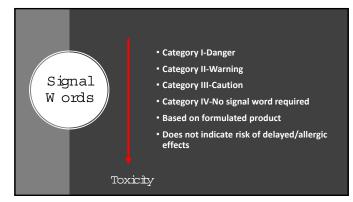






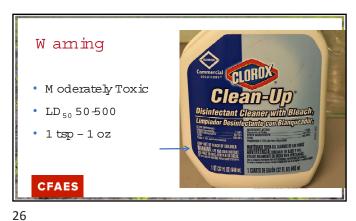
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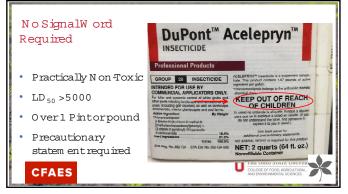
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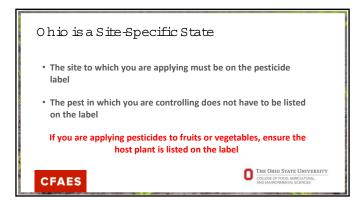


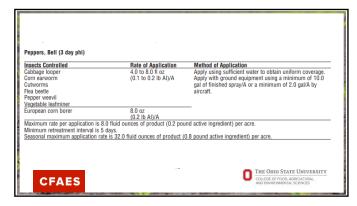


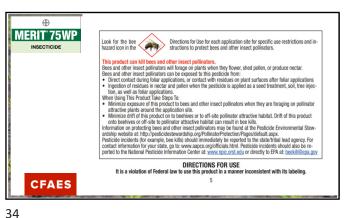




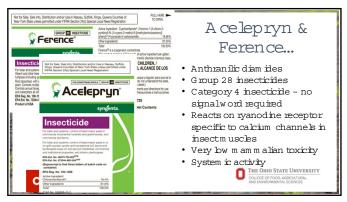


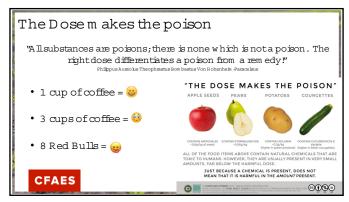






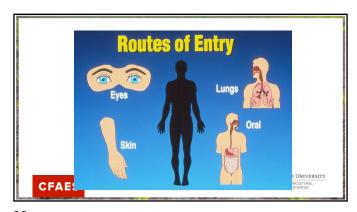
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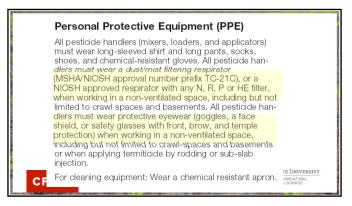


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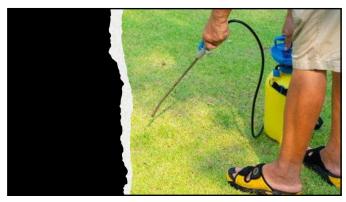






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Chem icalResistantMaterials No materialis chem iralproof Coveralls orapron (Tyvek, PVC) gloves Neoprene, butylorNirrle, notcotton) footwear (tubber boots, shoe covers, no leather) Hats (PVC, plastir, no baseballhats,) Eyew ear (safety glasses orgoggles) ND SH approved respirator (fullorhalf face)



41 42







The protective value of gloves

Farm ers who used gloves had
70% less 2 A D detectable in
urine

Farm ers who used gloves had
80% less Captan detectable on
hands

45 46





47 48







Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

In case of spill, clean up dust spillage resulting from container or pack breakage by sweeping material into a

51 52

Storage Practices Include:

- Store pesticides out of reach of children in locked cabinet
- Liquids stored beneath dry
- products
 Separate herbicides & insecticides
- Keep pesticides in original containers with labels attached
- Check fordam aged containers



ContainerDisposal



- Don't reuse containers
- Dispose of with household waste
- Wear PPE when cleaning containers

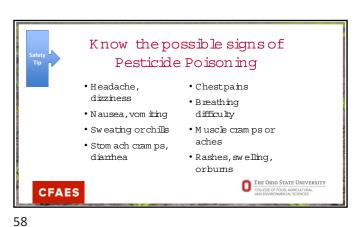


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Where to find out more about the safety of pesticides
 See NPIC – National Pesticide Information Center http://npic.orst.edu/

How to find out if a pesticide is labeled for use in your state
 See NPIRS (National Pesticide Information Retrieval System) http://state.ceris.purdue.edu/
 New ODA Product Search https://agri.ohio.gov/divisions/plant-health/pesticides/pesticide-search

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