Weed Resistance

YWTG 2018
Topics

• We will be focusing on Sprayer Cleanout
• Updated Resistance maps for Waterhemp, Kochia, Ragweed, and tough to control Lambsquarters
• Label Changes for Ethofumesate 4SC
• Weed control strategies for 2018
• Quick Refresh on Weed Identification
Sprayer Tank Cleanout

- Where do pesticides accumulate in my sprayer?
- 7 Steps for Sprayer Cleanout
- Tank cleaners for different chemistry's?
- Correct Nozzles for Spraying Season
- Second Sprayer Dedicated just for Sugarbeets?
Where does pesticide accumulate

- Bottom of main tank
- End caps/dead heads on booms
- Main screens and or nozzle screens
- Not completely draining the tank
7 Steps for Sprayer Cleanout

1. Spray out Booms Every Night

2. Perform Rinse Number 1
   – Can be 5 minutes long *(ND weed control guide)*
   – Or double the application rate
     – Ex. 15gpa application rate=flushing with 30 gallons

3. Remove and clean all screens
Sprayer Cleanout Continued

4. Remove and clean boom end caps
5. Perform Rinse Number 2
6. Add Tank Cleaner
   – Agitation is key to distribute cleaner
   – If possible leave in overnight
7. Perform Final Rinse and Flush
Tank Cleaners for Chemistry’s

- **Water=** Extreme, Glyphosate, Lightning, SG formulation
- **Bleach=** Laudis
- **Ammonia/commercial tank cleaner + Water=** 2,4-D, Assure II, Basagran, Bromoxynil, Cadet, Callisto, Cobra, Dicamba, Extreme, FirstRate, Fusilade DX, Gramoxone, Harmony DF, Harness, Hornet, Metolachlor, Metsulfuron, Paraquat, Permit, Prowl, Pursuit, Python, Raptor, Reflex, Rimsulfuron, Resource, Select, Stinger, Surpass, Thifensulfuron, Treflan, Ultra Blazer, Valor
- **Detergent or Commercial Tank Cleaner + Water=** Aim, Atrazine, Clarity, Flexstar, *Liberty 280*, Metribuzin, Poast, Status
Correct Nozzles

- Spray Nozzle Selection guide-one of many

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Weed Control Map Kochia
Weed Control Map Lambs.
Weed Resistant Map Ragweed
Waterhemp Resistant Map

2016 Weed Resistance Map - Waterhemp

2017 Weed Resistance Map - Waterhemp
Waterhemp Control Strategies 2018

• PPI/PRE
  – Ethofumesate or Dual Magnum
    • 10 week residual w/Ethofumesate; With Application of higher rates- follow with Beans or Potatoes only
    • Dual Magnum requires Indemnified label signature

• Post Lay-by
  – Outlook, Dual Magnum, Warrant
    • Tank mixed with Roundup
    • Split apply
    • All need rain activation and emerged weeds will not be controlled

• Cultivation as last resort near canopy closure
Biennial Wormwood

Common Ragweed
Weed ID

Waterhemp

Pigweed
Weed ID

- Kochia
- Common Lambsquarters
Questions