Weed Control Map Kochia

2017 Weed Control Map - Kochia

2018 Weed Resistance Map - Kochia
Weed Control Map Common Lambsquarters
Product Label Information

• Ethofumesate 4SC (Willowood)
  – Use rate up to 7.5pts/a PRE or PPI and up to 12 oz/a POST
  – PreHarvest Interval
    • 45 Day

• Nortron(Bayer), or Ethotron(UPL)
  – Use rate up to 7.5 pts/a PRE or PPI and up to 12 oz/a Post
  – PreHarvest Interval
    • 90 Day
Weed Control Strategies 2019

• PPI/PRE
  – Ethofumesate or Dual Magnum (Syngenta)
    • Up to 10 week residual w/Ethofumesate
    • Application of higher rates, Recommended to follow with Beans or Potatoes
    • Dual Magnum (Syngenta)- requires indemnified label signature
      – Generic versions can only be applied Lay-by
  
  – Recommendation
    • Ethofumesate - 1-3pts/a + Dual Magnum - 0.5pts/a
    • Dual Magnum - 0.5pts/a
    • Ethofumesate - 6-7.5 pts/a
Weed Control Strategies 2019

• POST Lay-by
  – Outlook, Dual Magnum, Warrant
    • Tank mixed with Roundup
    • Split apply to eliminate gaps in residual coverage
    • Rain activation (.25” Outlook, .5” Dual Magnum, .6-.75” Warrant) IS need and emerged weeds will not be controlled
  – Recommendation
    • Outlook - 21 oz/a Or 12oz/a FB 12oz/a
    • Dual Magnum - 1pt/a
    • Warrant - 3 pts/a
Recommended Waterhemp Strategy

• PRE/PPI - Ethofumesate + Dual Magnum, or Ethofumesate, or Dual Magnum

• POST- Roundup + Betamix + Ethofumesate + Layby
  – POST App #2 - Roundup + Betamix + Layby
  – POST App #3 - Roundup + Betamix

• We should be targeting Cotyledon to 2 Leaf weeds on our first POST application
Recommended Kochia Strategy

- PRE/PPI - Ethofumesate

- POST - Roundup + Betamix + Ethofumesate
  - Post App #2 - Same Treatment
  - Post App #3 - Same Treatment (if needed)

- We should be targeting dime to quarter size weeds on our first POST application
Recommended Ragweed Strategy

- POST - Roundup + Stinger
  - Post App #2 - Same Treatment
  - Post App #3 - Same Treatment (if needed)
  - Post App #4 - Same Treatment (if needed)

- We should be targeting cotyledon to 2 leaf weeds on our first POST application

- Do not use less than 2oz/A of Stinger

- Maximum use rate is 10.6 oz/A per Season

- Do not apply after the 8 leaf stage
Weed Control Strategy 2019

• Cultivation as a rescue
  – Use on problem fields

  – Done right before canopy closure has shown to reduce weed population

  – If used, still be careful on speed to keep soil away from crown of plant
Weed Removal

• Hand Weeding/ Removal of plants from field to stop the spread of seeds

• Mowing portions of field/field edges with weed escapes

• Waterhemp can produce 300,000 seeds and 1.5 times more than any other pigweed species (https://www.ag.ndsu.edu/weeds/weed-of-the-year-files/waterhemp)

• Viability of Kochia Seed is 1-3 years in the soil
• Viability of Waterhemp seed is 4-6 years in the soil
• Viability of Common Ragweed seed is up to 10 years in the soil
• Viability of Common Lambsquarters seed is greater than 20 years in the soil
Summary

• Tough to kill and resistant weeds are progressing north through the valley

• PRE/PPI work well

• Weed control strategy should include a layered, lay-by approach to avoid gaps in coverage

• Next major flood will spread resistant weed seeds faster and further than we see now.