2020 Weed Control
Weed Control Map Kochia
Weed Control Map Common Lambsquarters
Weed Resistant Map Common Ragweed
Waterhemp Resistant Map
PPI/PRE Herbicide Usage Notes 2020

- **PPI/PRE**
  - Ethofumesate
    - Up to 10 week residual
    - 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 - 3-7.5 pts/a
    or
    - Ethofumesate - 1-3 pts/a + Dual Magnum - 0.5 pts/a
    or
    - Dual Magnum - 0.5-1 pts/a
Layby Herbicide Usage Notes 2020

- **Lay-by Recommendation**
  - Outlook, Dual Magnum, Warrant
    - Tank mixed with Roundup
    - Split apply to eliminate gaps in residual coverage
    - Rain activation (Outlook, Dual Magnum, Warrant) is needed and emerged weeds will not be controlled

- **Recommendation**
  - Outlook - 21 oz/a Or Split apply 12oz/a FB 12oz/a
  - Dual Magnum - 1pt/a
  - Warrant - 3 pts/a
Sequence Herbicide Usage

- **POST Lay-by**
  - **Sequence**
    - Is a premix of Glyphosate and Dual Magnum
    - 2.5pts of Sequence contains equivalent of 20oz/a of PowerMAX and 1pt of Dual Magnum
  - When applying Sequence add an additional 8-12oz/a of PowerMAX to achieve the full rate of 28-32oz/a of PowerMAX
## 2019 PPI/PRE & Layby Usage

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Recommended Waterhemp Strategy

- **PPI or PRE**
  - Ethofumesate + Dual Magnum
  - Ethofumesate
  - Dual Magnum

- **POST**
  - App #1 Roundup + Ethofumesate + Layby
  - App #2 Roundup + Ethofumesate + Layby
  - App #3 - Roundup

- Betamix can be used in all 3 applications if available
- 12 oz max in-season of Ethofumesate
- Tankmix needs to have HSMOC
Recommended Ragweed Strategy

• **POST**
  - App #1 - Roundup + Stinger
  - App #2 - Same Treatment
  - App #3 - Same Treatment (if needed)

• 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/ 45 Day PHI
• Do not apply after the 8 leaf Sugarbeet stage
Recommended Waterhemp/Ragweed Combination Strategy

- **PPI or PRE**
  - Ethofumesate + Dual Magnum
  - Ethofumesate
  - Dual Magnum

- **POST**
  - App #1 Roundup + Ethofumesate + Stinger + Layby
  - App #2 - Same Treatment
  - App #3 – Contact agriculturist for recommendation if this application is needed

- Targeting cotyledon to 2 leaf weeds on our first POST application

- Watch PreHarvest Intervals

- Tankmix Needs to Have HSMOC
Recommended Kochia Strategy

• **PPI/PRE**
  - Ethofumesate

• **POST**
  - App #1 - Roundup + Betamix + Ethofumesate
  - App #2 - Same Treatment
  - App #3 - Same Treatment (if needed)

• We should be targeting dime to quarter size weeds on our first POST application
Herbicides
Preharvest Intervals

• Ethofumesate Products
  – Ethofumesate 4SC (Generic Crop Science)
    • 45 Day
  – Nortron (Bayer), or Ethotron (UPI)
    • 90 Day
Herbicides
Preharvest Intervals

- Chloroacetamide Products
  - Dual Magnum
    - 60 Day
  - Outlook
    - 60 Day to 8LF,
    - 90 Day 9-12LF
  - Warrant
    - 70 Day
  - Sequence
    - 60 Day
Herbicides Preharvest Intervals

- Glyphosate
  - 30 Day
- Clopyralid
  - Stinger
    - 45 Day
- Phen/Desmedipham
  - Betamix
    - 75 Day
Weed Removal

- Mowing or tilling portions of field/field edges with weed escapes
- Any areas of drown out in the field should be kept weed free with tillage
- Hand weeding or removal of plants from field to stop the spread of seeds
Mechanical Control

• 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
Palmer Amaranth

Identification

- 2-3” per day Growth
- 6-8’ Tall Height
- Up to 1 Million Seed production
- Reduced Yield up to 91% in corn/ 79% in Soybeans
Waterhemp and Pigweed Identification

- Leaf Length is longer than wide on Waterhemp Vs. Pigweed
- Waterhemp is completely hairless, Pigweed has hair on stem and petiole
Summary

• Tough to kill and resistant weeds are present throughout the valley.

• PPI/PRE work well when applied prior to weed emergence.

• Weed control strategy should include a layered approach of PPI/PRE to avoid coverage gaps in-season.

• We had overland flooding in both Spring and Fall of 2019.

• Another major flood will spread resistant weed seeds faster and further than now.