Pumpkin Herbicide Trials, 2011

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Locations in 2011

• Montgomery County
  – NT
  – Drip Irrigation
  – Variety
    • ‘Magic Wand’

• Allegheny County, NC
  – NT
  – No Irrigation
  – Variety
    • ‘Aladdin’

• Chowan County, NC
  – NT
  – Center Pivot Irrigation
  – Variety
    • ‘Hijinks’

• Washington County
  – CT
  – No Irrigation
  – Variety
    • ‘Spartan’
Herbicide Treatments, 2011

1. UTC
2. Dual Magnum @ 1.5 pints/A
3. Dual Magnum @ 1.5 pints/A plus Reflex @ 1.5 pints/A
4. Dual Magnum @ 1.5 pints/A plus Reflex @ 2 pints/A
5. Dual Magnum @ 1.5 pints/A plus Reflex @ 3 pints/A
Herbicide Treatments, 2011

6. Dual Magnum @ 1 pints/A plus Command 3ME @ 1 pint/A plus Reflex @ 1.5 pints/A
7. Dual Magnum @ 1 pints/A plus Command 3ME @ 1 pint/A plus Reflex @ 2 pints/A
8. Dual Magnum @ 1 pints/A plus Command 3ME @ 1 pint/A plus Sandea @ 2/3 oz/A
9. Command 3ME @ 1 pint/A plus Curbit @ 3 pints/A
10. Command 3ME @ 21 fl oz/A plus Curbit @ 4 pints/A
Plant Stand – no./A
Montgomery County

1 2 3 4 5 6 7 8 9 10
Yield – no./A
Montgomery County

[Bar chart showing yield values for Montgomery County, with bars representing different areas ranging from 500 to 6000.]
Yield – tons/A
Montgomery County

The chart above shows the yield in tons per acre for Montgomery County. The x-axis represents the years (1 to 10), and the y-axis represents the yield in tons per acre. The data indicates a consistent yield across different years, with some fluctuations.
Average Fruit Weight – lb/fruit
Montgomery County
Immature Fruit – %
Montgomery County

![Bar chart showing percentages of immature fruit in Montgomery County. The x-axis represents different categories, and the y-axis represents the percentage range. The chart includes bars for categories 1 to 10, with varying heights indicating the percentage values.](chart.png)
Yield – tons/A
Allegheny County, NC
Average Fruit Weight – lb/fruit
Allegheny County, NC
Immature Fruit – %
Allegheny County, NC
Overall Weed Control – %
Allegheny County, NC
Additional Treatments in Chowan County

11. Alachlor @ 2 pints/A plus Command 3ME @ 1 pint/A

12. Alachlor @ 4 pints/A plus Command 3ME @ 21 fl oz/A
Plant Stand – no./A
Chowan County, NC
Yield – no./A
Chowan County, NC

The chart shows the yield per acre in Chowan County, NC, with each bar representing a different area or plot, labeled from 1 to 12.
Average Fruit Weight – lb/fruit
Chowan County, NC
Immature Fruit – %
Chowan County, NC
Overall Weed Control – %
Chowan County, NC
Locations in 2013

• Montgomery County
  – NT
  – Variety
    • ‘Apollo’
  – Did not get yield
    • Already windrowed part of the plot area.
  – No stand differences among treatments
  – Essentially 100% weed control from all treatments
  – Some late season ground cherry.

• Chowan County, NC
  – NT
  – Variety
    • Rep 1
      – ‘Apollo’
    • Rep 2
      – ‘Cronus’
    • Rep 3
      – ‘Field Trip’
    • Rep 4
      – ‘Magic Wand’
Herbicide Treatments, 2013

1. UTC
2. Dual Magnum @ 1.5 pints/A
3. Dual Magnum @ 1.5 pints/A plus Reflex @ 1.5 pints/A
4. Dual Magnum @ 1.5 pints/A plus Reflex @ 2 pints/A
5. Dual Magnum @ 1.5 pints/A plus Reflex @ 3 pints/A
Herbicide Treatments, 2012

6. Dual Magnum @ 1 pints/A plus Command 3ME @ 1 pint/A plus Reflex @ 1.5 pints/A
7. Dual Magnum @ 1 pints/A plus Command 3ME @ 1 pint/A plus Reflex @ 2 pints/A
8. Dual Magnum @ 1 pints/A plus Command 3ME @ 1 pint/A plus Sandea @ 2/3 oz/A
9. Command 3ME @ 21 fl oz/A plus Curbit @ 4 pints/A
Plant Stand – no./A
Chowan County, NC
Yield – no./A
Chowan County, NC

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<th>No.</th>
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</table>
Yield – tons/A
Chowan County, NC
Average Fruit Weight – lb/fruit
Chowan County, NC
Immature Fruit – %
Chowan County, NC
Overall Weed Control – %
Chowan County, NC
Conclusions

• Reflex @ 1.5 and 2 pints/A appears to relatively safe.
• Reflex @ 3 pints/A appears to cause some yield reduction.
• The three way combinations provided excellent weed control.
• Alachlor appears to be relatively safe and gave very good weed control.
Reflex

• Received Federal Tolerance this past year.
  – Should be labeled for this use season.
  – Not sure on rate
  – Not sure on how this label will be managed
  – May be an indemnified label
Postemergence Trial, 2013

• Even with our best herbicide treatments we are always going to have some escapes.

• Postemergence Products
  – Sandea
  – Poast
  – Select Max
  – Generics

• Over the past couple of years we have toyed with the idea of Basagran.

• Grower friend in MS that had tried it a couple of years ago with good success.

• So we tried in 2013.
Basagran Trial, 2013

1. UTC
2. Basagran @ 1 pint/A plus NIS @ ¼% v/v
3. Basagran @ 1.5 pints/A plus NIS @ ¼% v/v
4. Basagran @ 2 pints/A plus NIS @ ¼% v/v
5. Basagran @ 1 pint/A plus COC @ 1% v/v
6. Basagran @ 1.5 pints/A plus COC @ 1% v/v
7. Basagran @ 2 pints/A plus COC @ 1% v/v
Basagran % Injury Results, 2013

Injury ratings taken 7 days after treatment
Basagran Results, 2013

- Crop oil concentrate caused more injury than non-ionic surfactant.
- By 21 days, almost no injury was observed.
- No differences in yields among treatments.
- Appears to be fine on Jack-O-Lanterns.
- Do not use on C. Maxima – Prize Winner
- **Remember Basagran is not labeled for Pumpkins.**
Questions?

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