Varieties and In-Furrow Insecticides

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Varieties
2015 & 2016

TSWV stunting

Georgia 12Y
Sullivan
Georgia 13M
TUFRunner 297
Wynne
Florida 07
Georgia 14N
FloRun 107
Sugg
Georgia 09B
TUFRunner 727
TUFRunner 511
CHAMPS
FloRun 157

TSWV stunting
How do we Lower TSWV Risk?

• Resistant varieties
• Plant mid-May (May 11 – 25), avoid early planting (April)
• Aim for strong emergence > 4 plants/ft (5 to 6 seed/ft)
• In-furrow insecticide: phorate over imidacloprid (acephate helps imid.)
• Reduced tillage (strip) over conventional tillage
• Twin-rows

High TSWV Risk
FloRun 157, TUFRunner 511 & 727, CHAMPS, Carolina African Runner
Late leaf spot defoliation

2016
Bravo at 45, 75 and 90 DAP
How do we Lower Late Leaf Spot Risk?

• Resistant varieties
• Plant earlier, before May 15
• Maintain good rotations (2 to 3 years between peanuts)
• Start fungicide program ≤ 45 DAP, alternate premium products/MOA
• Strip tillage can lower risk compared to conventional tillage

High Late Leaf Spot Risk
Georgia 13M, FloRun 157, CHAMPS, (TUFRunner 511 & 727, Sugg, Bailey)
<table>
<thead>
<tr>
<th>Variety</th>
<th>White Mold Severity</th>
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<tbody>
<tr>
<td>TifNV-High O/L</td>
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<tr>
<td>Sugg Sullivan</td>
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<tr>
<td>TUFRunner 511</td>
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<td>Bailey Wynne</td>
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<td>FloRun 157</td>
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<td>TUFRunner 727</td>
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<td>Georgia 14N</td>
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<td>Georgia 06G</td>
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<tr>
<td>FloRun 107</td>
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</tbody>
</table>

2016
No soil fungicide, $P = 0.116$
2015 & 2016
No soil fungicide, $P = 0.09$
How do we Lower White Mold Risk?

• Resistant varieties
• Avoid early plantings (April)
• Maintain good rotations (2 to 3 years between peanuts) (no soybean)
• Start fungicide program ≤ 60 DAP, alternate premium products/MOA
• Fungicides need to be watered in for soil activity (24 to 48 hrs after)

Low White Mold Risk
Bailey, Sugg, Sullivan, Wynne, Georgia 12Y, (TUFRunner 511)
Blue better digging date: 139 DAP
Red better digging date: 156 DAP
2016

% TSWV stunting

% TSWV stunting
Blue better digging date: 139 DAP
Red better digging date: 156 DAP
2016
2015 & 2016

Irrigation + premium fungicide program
Top High Oleic Options

• Virginias: *Sullivan* (and Wynne)
  - Both good, *Sullivan* has edge with disease resistance, shorter maturity (135 vs. 142 DAP) and smaller seed size (510 vs. 450/lb)

• Georgia 13M
  - Very susceptible to *late leaf spot*, small seed size (830/lb), (150+ day maturity)
  - Plant before May 15, aggressive fungicide program

• TUFRunner 511
  - Very susceptible to *TSWV*, can be very susceptible to *late leaf spot*, (~140 day maturity)
  - Plant first 2 weeks of May, Thimet preferred, strong fungicide program

• TUFRunner 297
  - Looks very promising; 2017 largely still seed increase, (~140 day maturity)
Pesticide Update

• **Propulse** (fluopyram + prothioconazole)
  • 2(ee) includes nematodes, needs to be watered in

• **Rancona V PD** (ipconazole + carboxin + metalaxyl)
  • Competitive with Dynasty PD

• **Prevathon** (chlorantraniliprole)
  • 2(ee) includes lesser cornstalk borer

• **AgLogic 15G** (aldicarb, “Return of Temik”)
  • Thrips, nematodes
  • 2017 SC use approved, *very limited* supply, ~$6/lb, $42+/application
In-Furrow Insecticides

- Georgia 06G
- Field A: planted 26 April
- Field B: planted 25 April
<table>
<thead>
<tr>
<th>Treatment number</th>
<th>Name</th>
<th>Rate</th>
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<th>Timing</th>
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<tr>
<td>2</td>
<td>Thimet</td>
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<td>oz/1000 row-ft</td>
<td>IF</td>
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<td>3</td>
<td>AgLogic</td>
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<td>lb/a</td>
<td>IF</td>
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<td>4</td>
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<td>5</td>
<td>Velum Total</td>
<td>18</td>
<td>fl oz/a</td>
<td>IF</td>
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<tr>
<td>6a</td>
<td>Velum Total</td>
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<td>fl oz/a</td>
<td>IF</td>
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<td></td>
<td>Propulse</td>
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<td>7a</td>
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<td>8</td>
<td>Admire Pro</td>
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<td>fl oz/a</td>
<td>IF</td>
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<td>fl oz/a</td>
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<td></td>
<td>Orthene</td>
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<tr>
<td>10b</td>
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<td>oz/1000 row-ft</td>
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<tr>
<td></td>
<td>Polyacrylamide/polyacrylate copolymer</td>
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<td>lb/a</td>
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<tr>
<td>11b</td>
<td>Velum Total</td>
<td>14</td>
<td>fl oz/a</td>
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<td>Polyacrylamide/polyacrylate copolymer</td>
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</table>
~31 DAP
Thrips damage

~37 DAP
~121 DAP

TSWV stunting

Thimet_poly
Thimet
AgLogic
Admire_Orthene
Velum_14_poly
Velum Total_14
Check
Admire Pro
Velum Total_18
Velum_14_Prop
Velum_18_Prop
141 DAP, Georgia 06G

AgLogic: good performance,
May currently be too expensive for thrips/TSWV alone

Treatment cost $ →

Yield (lb/A)

- Check
- Velum_18_Prop
- Velum_14_Prop
- Velum Total_14
- Velum Total_18
- Admire Pro
- Admire_Orthene
- Velum_14_poly
- Thimet
- AgLogic
- Thimet_poly

Costs:
- $0/A
- $96/A
- $88/A
- $30/A
- $38/A
- $17/A
- $25/A
- $43/A
- $16/A
- $30/A
- $42/A
- $29/A