Fungicides Trials

Blue mold did not occur in test plots and incidence in the Kentucky was very low. Black shank was the worst it had been in three years. Drought stress added to the problem by reducing the uptake of Ridomil or Ultra-flourish and by adding stress to black shank resistant varieties. Target Spot continues to increase and was present in our blue mold trials providing an opportunity to compare treatments for control of Target Spot. Quadris applied late gave the best control of Target Spot.
<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate Actual</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2 Ridomil Gold</td>
<td>16 fl oz</td>
<td>ppi</td>
</tr>
<tr>
<td>2nd cult</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Ridomil Gold</td>
<td>16 fl oz</td>
<td>ppi</td>
</tr>
<tr>
<td>Experimental</td>
<td>18.6 fl oz</td>
<td>1st cult</td>
</tr>
<tr>
<td>2nd cult</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Experimental</td>
<td>18.6 fl oz</td>
<td>ppi</td>
</tr>
<tr>
<td>Ridomil Gold</td>
<td>16 fl oz</td>
<td>1st cult</td>
</tr>
<tr>
<td>Experimental</td>
<td>18.6 fl oz</td>
<td>2nd cult</td>
</tr>
<tr>
<td>5 Ridomil Gold +</td>
<td>16 fl oz</td>
<td>Ppi</td>
</tr>
<tr>
<td>Experimental</td>
<td>18.6 fl oz</td>
<td></td>
</tr>
<tr>
<td>2nd cult</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Ridomil Gold +</td>
<td>16 fl oz</td>
<td>ppi</td>
</tr>
<tr>
<td>Experimental</td>
<td>18.6 fl oz</td>
<td></td>
</tr>
<tr>
<td>7 Ridomil Gold +</td>
<td>16 oz</td>
<td>ppi</td>
</tr>
<tr>
<td>Experimental</td>
<td>18.6 fl oz</td>
<td></td>
</tr>
<tr>
<td>2nd cult</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>Vigor 6/28</td>
<td>68.75</td>
<td>68.75</td>
</tr>
<tr>
<td>Vigor 8/22</td>
<td>57.5</td>
<td>70</td>
</tr>
<tr>
<td>Black Shank</td>
<td>22.5</td>
<td>5</td>
</tr>
</tbody>
</table>

Exp = Experimental, See previous slide for data sheet containing details of application timing and rate.
Black Shank Fungicide Trial
Harrison Co. – Kenneth Whitaker Farm

Exp = Experimental, : = split between application time, + = tank mix. See Treatment slide for data sheet containing details of application timing and rate.
Black Shank Fungicide Trial
Harrison Co. – Glenn Ishmael Farm

Exp = Experimental, : = split between application time, + = tank mix. See Treatment slide for data sheet containing details of application timing and rate.
# Blue Mold Treatments

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate Actual</th>
<th>Timing</th>
<th>INT</th>
<th>trt</th>
<th>coverage</th>
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<tbody>
<tr>
<td>1 Check</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>full</td>
</tr>
<tr>
<td>2 Acrobat MZ</td>
<td>2.5 lb/100gal</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>full</td>
</tr>
<tr>
<td>3 Quadris</td>
<td>8 fl oz/a</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>full</td>
</tr>
<tr>
<td>4 Quadris</td>
<td>8 fl oz/a</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>overtop</td>
</tr>
<tr>
<td>5 Quadris</td>
<td>12 fl oz/a</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>full</td>
</tr>
<tr>
<td>6 Quadris</td>
<td>8 fl oz/a</td>
<td>onset</td>
<td></td>
<td>1</td>
<td>full</td>
</tr>
<tr>
<td>Actigard 50 WG</td>
<td>0.5 fl oz/a</td>
<td>18in</td>
<td>10d</td>
<td>2</td>
<td>overtop</td>
</tr>
<tr>
<td>7 Quadris</td>
<td>8 fl oz/a</td>
<td>onset</td>
<td>alternate</td>
<td>2</td>
<td>full</td>
</tr>
<tr>
<td>Actigard 50 WG</td>
<td>0.5 fl oz/a</td>
<td>18in</td>
<td>alternate</td>
<td>1</td>
<td>overtop</td>
</tr>
<tr>
<td>8 Actigard 50 WG</td>
<td>0.5 fl oz/a</td>
<td>18in</td>
<td>10d</td>
<td>3</td>
<td>overtop</td>
</tr>
<tr>
<td>9 Exp</td>
<td>Low</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>overtop</td>
</tr>
<tr>
<td>10 Exp</td>
<td>High</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>overtop</td>
</tr>
<tr>
<td>11 Exp + Surfix</td>
<td>Low + .06 v/v</td>
<td>onset</td>
<td>10d</td>
<td>3</td>
<td>overtop</td>
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</tbody>
</table>
Effect of Fungicide Treatment on Vigor & Firing
Jackson Co. – Dale Angel Farm

Rating 1-100

Check | AMZ | Q 8 | Q 8 OTT | Q 12 | Q+Act(2) | Q+Act+Q | - + Act(2) | Exp L | Exp H | Exp L+ Surf.

Vigor: 68 57 53 33 65 56 61 33 70 75 85 85 78
Firing: 73 43 43 28 61 68 61 58 85 66 69 69 78
Effect of Fungicide Treatment on Target Spot
Jackson Co. – Dale Angel Farm

% LAD

- Check
- AMZ
- Q 8
- Q 8 OTT
- Q 12
- Q+Act(2)
- Q+Act+Q
- - + Act(2)
- Exp L
- Exp H
- Exp L+ Surf.

Values: 10, 10, 3, 2, 2, 9, 10, 12, 17, 12
Effect of Fungicide Treatment on Yield
Jackson Co. – Dale Angel Farm

Yield lb/a

<table>
<thead>
<tr>
<th>Treatments</th>
<th>FLYINGS</th>
<th>LUGS</th>
<th>LEAF</th>
<th>TIPS</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check</td>
<td>360</td>
<td>352</td>
<td>387</td>
<td>367</td>
<td>1509</td>
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<tr>
<td>AMZ</td>
<td>381</td>
<td>430</td>
<td>624</td>
<td>387</td>
<td>1769</td>
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<tr>
<td>Q 8</td>
<td>374</td>
<td>441</td>
<td>665</td>
<td>383</td>
<td>1864</td>
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<tr>
<td>Q 8 OTT</td>
<td>328</td>
<td>486</td>
<td>745</td>
<td>403</td>
<td>1962</td>
</tr>
<tr>
<td>Q 12</td>
<td>344</td>
<td>352</td>
<td>709</td>
<td>373</td>
<td>1778</td>
</tr>
<tr>
<td>Q + Act (2)</td>
<td>357</td>
<td>418</td>
<td>467</td>
<td>339</td>
<td>1708</td>
</tr>
<tr>
<td>Q + Act + Q</td>
<td>344</td>
<td>341</td>
<td>451</td>
<td>384</td>
<td>1667</td>
</tr>
<tr>
<td>T + Act (2)</td>
<td>341</td>
<td>452</td>
<td>415</td>
<td>376</td>
<td>1628</td>
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<tr>
<td>Exp L</td>
<td>328</td>
<td>351</td>
<td>363</td>
<td>464</td>
<td>1379</td>
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<tr>
<td>Exp H</td>
<td>364</td>
<td>422</td>
<td>319</td>
<td>398</td>
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<tr>
<td>Exp L + Surf.</td>
<td>373</td>
<td>398</td>
<td>314</td>
<td>398</td>
<td>1483</td>
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Effect of Fungicide Treatment on Vigor & Firing
Jessamine Co. – Carl Waits Farm

Rating 1-100

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Vigor</th>
<th>Firing</th>
</tr>
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<tbody>
<tr>
<td>Check</td>
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<td>35</td>
</tr>
<tr>
<td>AMZ</td>
<td>71</td>
<td>33</td>
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<tr>
<td>Q 8</td>
<td>68</td>
<td>33</td>
</tr>
<tr>
<td>Q 8 OTT</td>
<td>69</td>
<td>30</td>
</tr>
<tr>
<td>Q 12</td>
<td>71</td>
<td>25</td>
</tr>
<tr>
<td>Q+Act(2)</td>
<td>70</td>
<td>25</td>
</tr>
<tr>
<td>Q+Act+Q</td>
<td>76</td>
<td>23</td>
</tr>
<tr>
<td>- + Act(2)</td>
<td>71</td>
<td>40</td>
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<tr>
<td>Exp L</td>
<td>79</td>
<td>64</td>
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<tr>
<td>Exp H</td>
<td>78</td>
<td>43</td>
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<tr>
<td>Exp L+ Surf.</td>
<td>78</td>
<td>35</td>
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Legend:
- Vigor
- Firing
Effect of Fungicide Treatment on Target Spot
Jessamine Co. – Carl Waits Farm

% LAD

<table>
<thead>
<tr>
<th>Treatment</th>
<th>% LAD</th>
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<td>AMZ</td>
<td>4.2</td>
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<tr>
<td>Q 8</td>
<td>2.8</td>
</tr>
<tr>
<td>Q 8 OTT</td>
<td>2.5</td>
</tr>
<tr>
<td>Q 12</td>
<td>2.3</td>
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<tr>
<td>Q+Act(2)</td>
<td>1.5</td>
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<tr>
<td>Q+Act+Q</td>
<td>0.7</td>
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<tr>
<td>+ Act(2)</td>
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<tr>
<td>Exp L</td>
<td>3.4</td>
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<tr>
<td>Exp H</td>
<td>3.8</td>
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<tr>
<td>Exp L+ Surf.</td>
<td>5.2</td>
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<tr>
<td>Surf.</td>
<td>3.9</td>
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</table>
Effect of Fungicide Treatment on Yield
Jessamine Co. – Carl Waits Farm

<table>
<thead>
<tr>
<th>Treatment</th>
<th>FLYINGS</th>
<th>LUGS</th>
<th>LEAF</th>
<th>TIPS</th>
<th>TOTAL</th>
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</thead>
<tbody>
<tr>
<td>Check</td>
<td>681</td>
<td>560</td>
<td>611</td>
<td>579</td>
<td>2959</td>
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<tr>
<td>AMZ</td>
<td>957</td>
<td>1377</td>
<td>1167</td>
<td>1158</td>
<td>3267</td>
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<tr>
<td>Q 8</td>
<td>1064</td>
<td>754</td>
<td>1031</td>
<td>1008</td>
<td>3216</td>
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<tr>
<td>Q 8 OTT</td>
<td>1031</td>
<td>1158</td>
<td>1223</td>
<td>1101</td>
<td>3267</td>
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<tr>
<td>Q 12</td>
<td>1008</td>
<td>798</td>
<td>635</td>
<td>793</td>
<td>3169</td>
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<tr>
<td>Q + Act(2)</td>
<td>448</td>
<td>588</td>
<td>551</td>
<td>518</td>
<td>2814</td>
</tr>
<tr>
<td>Q + Act+Q</td>
<td>467</td>
<td>635</td>
<td>793</td>
<td>915</td>
<td>2982</td>
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<tr>
<td>Exp L</td>
<td>485</td>
<td>513</td>
<td>481</td>
<td>485</td>
<td>3146</td>
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<tr>
<td>Exp H</td>
<td>476</td>
<td>1228</td>
<td>751</td>
<td>1092</td>
<td>2824</td>
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<tr>
<td>Exp L + Surf.</td>
<td>476</td>
<td>1228</td>
<td>751</td>
<td>1092</td>
<td>3085</td>
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<tr>
<td>LSD</td>
<td>140</td>
<td>342</td>
<td>305</td>
<td>181</td>
<td>285</td>
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Yield lb/a
The Effects on Ridomil in the Absence of Black Shank on Burley Yield
Madison Co. - Don Long Farm

<table>
<thead>
<tr>
<th></th>
<th>Leaf Width (in)</th>
<th>Leaf Length (in)</th>
<th>Leaf Area (sq in)</th>
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</thead>
<tbody>
<tr>
<td>No Ridomil</td>
<td>14.2</td>
<td>29.9</td>
<td>297.9</td>
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<tr>
<td>Ridomil</td>
<td>14.8</td>
<td>30.3</td>
<td>314.6</td>
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<tr>
<td>LSD</td>
<td>0.5</td>
<td>0.7</td>
<td>16.5</td>
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</table>
The Effects on Ridomil in the Absence of Black Shank on Burley Yield

Madison Co. - Don Long Farm

<table>
<thead>
<tr>
<th>Yield lb/a</th>
<th>No Ridomil</th>
<th>Ridomil</th>
<th>LSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLYINGS</td>
<td>370</td>
<td>354</td>
<td>69</td>
</tr>
<tr>
<td>LUGS</td>
<td>524</td>
<td>527</td>
<td>64</td>
</tr>
<tr>
<td>LEAF</td>
<td>1346</td>
<td>1403</td>
<td></td>
</tr>
<tr>
<td>TIPS</td>
<td>790</td>
<td>846</td>
<td>48*</td>
</tr>
</tbody>
</table>

* = significantly different 0.05
Insecticide Trials

Weather may have influenced insect numbers in 2005. Aphid pressure was moderate while late season hornworms were more prominent than usual.
Effects of Transplant Treatment on Burley Vigor - Boyle Co., Allen Goggin Farm

Insecticide Treatment

- Check
- Plat 5.7oz
- Plat 8oz
- Ad 5.6oz
- Orth 1lb
- Orth 1lb+Plat 3oz

Plat=Platinum, Ad=Admire, Orth=Orthene

LSD
Effects of Transplant Treatment on Burley Yield - Boyle Co., Allen Goggin Farm

Insecticide Treatment

- Check
- Plat = Platinum
- Plat 5.7oz
- Plat 8oz
- Ad = Admire
- Ad 5.6oz
- Orth = Orthene
- Orth 1lb
- Orth 1lb + Plat 3oz
- LSD

Yield lb/a

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check</td>
<td>1833</td>
</tr>
<tr>
<td>Plat 5.7oz</td>
<td>1650</td>
</tr>
<tr>
<td>Plat 8oz</td>
<td>1808</td>
</tr>
<tr>
<td>Ad 5.6oz</td>
<td>1930</td>
</tr>
<tr>
<td>Orth 1lb</td>
<td>1871</td>
</tr>
<tr>
<td>Orth 1lb + Plat 3oz</td>
<td>2072</td>
</tr>
<tr>
<td>LSD</td>
<td>69</td>
</tr>
</tbody>
</table>

Plat = Platinum, Ad = Admire, Orth = Orthene
Effects of Foliar Insecticides on Hornworm Incidence – Nelson Co. – Chuck Heil Farm

- Check
- Denim
- Denim+ NIS
- Tracer
- Orthene
- ASSAIL
- Warrior w/Zeon
- Warrior w/Zeon (1) + Denim(2)
- LSD

Plants with damage

<table>
<thead>
<tr>
<th></th>
<th>June 10</th>
<th>June 29</th>
<th>July 9</th>
<th>July 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Denim</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Denim+ NIS</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Tracer</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Orthene</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>ASSAIL</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Warrior w/Zeon</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Warrior w/Zeon (1) + Denim(2)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>LSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
Effects of Foliar Insecticides on Aphid Colonies – Nelson Co. – Chuck Heil Farm

Colonies/20 plants

June 10  June 29  July 9  July 25

- Check
- Denim
- Denim+ NIS
- Tracer
- Orthene
- Warrior w/Zeon
- Warrior w/Zeon (1) + Denim (2)
- ASSAIL
- LSD
Effects of Foliar Insecticides on Vigor of Burley Tobacco – Nelson Co. – Chuck Heil Farm

Bar chart showing the effect of various insecticides on the vigor of Burley tobacco over different dates. The dates considered are June 10, June 29, July 9, and July 25. The treatments include Check, Denim, Denim+NIS, Tracer, Orthene, ASSAIL, Warrior w/Zeon, Warrior w/Zeon (1) + Denim (2), and LSD. The x-axis represents the dates, and the y-axis represents the % vigor.
Effects of Foliar Insecticides on Burley Tobacco Yield – Nelson Co. – Chuck Heil Farm

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Check</th>
<th>Denim</th>
<th>Denim + NIS</th>
<th>Tracer</th>
<th>Orthene</th>
<th>Warrior</th>
<th>Warrior + Denim</th>
<th>ASSAIL</th>
<th>LSD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (lb)</td>
<td>2412</td>
<td>2874</td>
<td>2711</td>
<td>2507</td>
<td>2978</td>
<td>3010</td>
<td>2983</td>
<td>2820</td>
<td>568</td>
</tr>
</tbody>
</table>

Legend:
- FLYINGS
- LUGS
- LEAF
- TIPS
Alfalfa burn down test

Experience has shown that eradicating an established alfalfa stand to plant no-till tobacco can be challenging. This study was conducted on an approximately seven year old stand of alfalfa. Treatments included fall and spring application of round-up with and without a broadleaf herbicide (Clarity). Contrary to previous studies the spring treatments appeared to be more effective for eliminating alfalfa. Work will continue to identify effective means of controlling alfalfa prior to planting no-till tobacco.
Alfalfa Burndown (No-till Tobacco)
Fayette County – Spindletop Farm

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Rate</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Round-up WeatherMAX</td>
<td>3 qt/A</td>
<td>Fall*</td>
</tr>
<tr>
<td>2 = Round-up WeatherMAX</td>
<td>2 qt/A</td>
<td>Fall*</td>
</tr>
<tr>
<td>3 = Round-up WeatherMAX</td>
<td>44oz./A</td>
<td>Fall*</td>
</tr>
<tr>
<td>4 = Round-up WeatherMAX</td>
<td>2qt/A</td>
<td>Fall*</td>
</tr>
<tr>
<td></td>
<td>plus Clarity</td>
<td>Fall*</td>
</tr>
<tr>
<td>5 = Clarity</td>
<td>1 qt/A</td>
<td>Fall*</td>
</tr>
<tr>
<td>6 = Round-up WeatherMAX</td>
<td>3qt/A</td>
<td>Spring</td>
</tr>
<tr>
<td>7 = Round-up WeatherMAX</td>
<td>2qt/A</td>
<td>Spring</td>
</tr>
<tr>
<td></td>
<td>plus Clarity</td>
<td>Spring</td>
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<td>8 = Round-up WeatherMAX</td>
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<tr>
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<td>plus Clarity'</td>
<td>Spring</td>
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<tr>
<td></td>
<td>1pt/A</td>
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* 2 qt/A Round-up Weathermax applied 30 days prior to transplant
Alfalfa Burndown (No-till Tobacco)  
Fayette County – Spindletop Farm  

Before Spring Applications

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Surface area covered (%)
Alfalfa Burndown (No-till Tobacco)
Fayette County – Spindletop Farm

Mid-season rating

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Fayette County – Spindletop Farm

Mid-season rating

Number of remaining alfalfa crowns

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