Ohio Vineyard Survey

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2 fields, 2 cloudy days in ‘04

What’s in common?
Soybeans & Grapes

Glyphosate

- Roundup,
  Touchdown, Glyfos etc.
Achilles Heel of Herbicide Technology
## Roundup Resistant Weeds

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>CROP</th>
<th># SITES</th>
</tr>
</thead>
<tbody>
<tr>
<td>H. Fleabane</td>
<td>Vineyards</td>
<td>1</td>
</tr>
<tr>
<td>Marestail</td>
<td>Field Crops (OH)</td>
<td>10 (US)</td>
</tr>
<tr>
<td>Italian ryegrass</td>
<td>Vineyards/ orchards</td>
<td>3</td>
</tr>
<tr>
<td>Rigid ryegrass</td>
<td>Vineyards/ orchards/ field crops</td>
<td>5 (1 US)</td>
</tr>
<tr>
<td>Goosegrass</td>
<td>Orchards</td>
<td>1</td>
</tr>
<tr>
<td>Buckhorn Plantain</td>
<td>Vineyards</td>
<td>1</td>
</tr>
</tbody>
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Marestail Results 21 DAT - Fall 2003

ALS & Glyphosate-R (Montgomery Co.)
Glyphosate-R (Brown Co.)
ALS-R (Putnam Co.)
Sensitive

Untreated
FirstRate
glyphosate

1.2 oz/A
0.75 lb ea/A
3.0 lb ea/A
Common Lambsquarters Issues

Ross Co.

Sandusky Co.

Untreated

1X

4X

Untreated

1X

4X

Glyphosate 1X = 0.75 lb ae/A
Vineyard Weed Survey
-other findings-
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-other findings-
Vineyard Weed Survey

Weeds ID and counted in 20 ¼ sq yd. quadrats

Stratified Sample
- Conventional & organic

<table>
<thead>
<tr>
<th></th>
<th>CG</th>
<th>PW</th>
<th>DL</th>
<th>PL</th>
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</thead>
<tbody>
<tr>
<td>Conv’l</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Org’n</td>
<td></td>
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Recommendations

Limit Roundup to 1 or 2 sprays/season
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- Use Poast or Select to control grasses
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- Use Poast or Select to control grasses
- Use a residual to minimize broadleaf weeds
Issues

- More training
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- Research on sucker control
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- Research on ground covers
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- Research on integration of old and new methods of control