Special Duty Burndown Tankmixes for Soybeans

**✓** Paraquat fits in burndown tankmixes due to lower cost and planting flexibility

**✓** Paraquat (PS I Electron diverter) + Triazine (PS II inhibitor) i.e. metribuzin synergistic mode of action controls herbicide resistant weeds: Marestail, Palmer Pigweed, Ragweeds, Waterhemp and Others.

**✓** Paraquat + metribuzin + 2,4-DB has no planting restrictions with 3 effective modes of action.

**✓** For best results use COC 1% v/v, coverage is critical; adjust spray volume according to label directions.

**SOYBEANS** - No-Till, Reduced Till, Stale Seed Bed, freshening up conventional till, PRE-PLANT up to PLANTING & PRE-Emergence.

1. **AUTHORITY® Brand herbicide + Liberty® herbicide 29 oz or more + AIM® EC herbicide 1 oz (optional) + AMS 3 lbs applied Pre-Plant, At-Plant or Pre-emergence up to 3 days after planting.** This Burndown controls emerged herbicide resistant weeds such as marestail under cooler conditions better than Liberty applied alone. Authority Brand herbicide provides soil residual control of many broadleaves and grasses including Glyphosate / ALS resistant weeds.

2. **AUTHORITY® MTZ DF herbicide 12-16 oz + Gramoxone Inteon® herbicide 2 to 4 pt OR Gramoxone® herbicide 2 to 4 pt OR Gramoxone® SL herbicide 2 to 4 pt + AIM EC herbicide 1 oz (optional) + COC 1% v/v or NIS 0.25% v/v, AMS may be added to enhance burndown activity; applied Pre-Plant, At-Plant or Pre-emergence up to 3 days after planting.** Authority MTZ DF herbicide 14 oz rate contains metribuzin 75DF herbicide 5 oz, when combined with Paraquat 32 oz or higher labeled rate will burndown larger sized weeds or makes weeds less competitive, and provides excellent soil residual weed control or Glyphosate / ALS resistant weeds.

3. **AUTHORITY Brand herbicide + AIM EC herbicide 1 oz (optional) + metribuzin 75DF herbicide 5 oz (See Label for Rate) + Gramoxone Inteon herbicide 2 to 4 pt OR Gramoxone herbicide 2 to 4 pt OR Gramoxone SL herbicide 2 to 4 pt + COC 1% v/v, AMS may be added to enhance burndown activity, applied Pre-Plant, At-Plant or Pre-emergence up to 3 days after planting.** Will control newly emerged small broadleaf weeds and grasses. Provides broad-spectrum control of many weeds at burndown and residual control of resistant weeds.

4. **AUTHORITY Brand herbicide + AIM EC herbicide 1 oz (optional) + Butyrac® 175 herbicide 0.8 to 0.9 pt/A OR Butyrac® 200 herbicide 0.7 to 0.9 pt/A + Gramoxone Inteon herbicide 2 to 4 pt OR Gramoxone herbicide 2 to 4 pt OR Gramoxone SL herbicide 2 to 4 pt + AMS 2.5 lbs/A + NIS 0.25% v/v, applied Pre-Plant, At-Plant or Pre-emergence up to 3 days after planting.** Will control newly emerged small broadleaf weeds and grasses, see label. Has shown good control of Glyphosate / ALS resistant weeds.

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**2012 Percent Marestail Control Selected Spring Treatments**
(Data Courtesy Dr. William Johnson – Purdue University – W. Lafayette, IN)

<table>
<thead>
<tr>
<th>Treatment</th>
<th>% Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authority® MTZ herbicide 12 oz + Liberty® herbicide 29 oz + COC 1% v/v + AMS 2.5 lbs</td>
<td>99</td>
</tr>
<tr>
<td>Authority® MTZ herbicide 12 oz + Gramoxone Inteon® herbicide 32 oz + COC 1% v/v + AMS 2.5 lbs</td>
<td>97</td>
</tr>
<tr>
<td>Authority® XL herbicide 4 oz + Gramoxone Inteon® herbicide 32 oz + Butyrac® 200 herbicide 12 oz + COC 1% v/v + AMS 2.5 lbs</td>
<td>94</td>
</tr>
<tr>
<td>Authority® MTZ herbicide 12 oz + Sharpen® herbicide 1 oz + COC 1% v/v + AMS 2.5 lbs</td>
<td>79</td>
</tr>
</tbody>
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- **Special Duty Burndown Tankmixes for Soybeans**
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**HatchTrak SM**

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