Residual Herbicides Applied POST in Soybean

**Anthem:** Zidua (15) + Cadet (14); up to V3

**Dual II Magnum:** Metolachlor (15); emergence to V3

**FirstRate:** Cloransulam (2); up to 50% flowering

**Pursuit:** Imazethapyr (2); before bloom

**Prefix:** Metolachlor (15)+Fomesafen (14); cracking-V3

**Outlook:** Dimethenamid (15); V1 to V5

**Warrant:** Acetochlor (15); before R2

**Zidua:** Pyroxasulfone (15); V1 to V3

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Herbicide Resistant Weeds in NE

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Resistance</th>
<th>Example Herbicides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common waterhemp</td>
<td>Triazine</td>
<td>Aatrex</td>
</tr>
<tr>
<td></td>
<td>HPPD</td>
<td>Callisto, Ludaic, Impact</td>
</tr>
<tr>
<td></td>
<td>ALS</td>
<td>Pursuit, Classic</td>
</tr>
<tr>
<td></td>
<td>Glyphosate</td>
<td>Roundup</td>
</tr>
<tr>
<td>Palmer amaranth</td>
<td>ALS</td>
<td>Pursuit, Classic</td>
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<td></td>
<td>Triazine</td>
<td>Aatrex</td>
</tr>
<tr>
<td>Kochia</td>
<td>Tetrasulam</td>
<td>Buctril</td>
</tr>
<tr>
<td></td>
<td>ALS</td>
<td>Green</td>
</tr>
<tr>
<td>Shattercane</td>
<td>ALS</td>
<td>Accent, Beacon, Option</td>
</tr>
<tr>
<td>Marestail</td>
<td>ALS</td>
<td>FirstRate</td>
</tr>
<tr>
<td>Giant/ Common ragweed</td>
<td>Glyphosate</td>
<td>Roundup</td>
</tr>
<tr>
<td></td>
<td>Glyphosate</td>
<td>Roundup</td>
</tr>
<tr>
<td>Redroot pigweed</td>
<td>Triazine</td>
<td>Aatrex</td>
</tr>
</tbody>
</table>

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PRE Herbicides in Soybean

- **ALS inhibitors (2)**
  - FirstRate, Pursuit, Python
- **Microtubule inhibitors (3)**
  - Prowl H20, Trifluralin
- **PS II inhibitors (5)**
  - Sencor/ Dimetric
- **Diterpene Synthesis inhibitor (13)**
  - Command
- **PPO inhibitors (14)**
  - Authority, Valor
- **Long chain fatty acid inhibitors (15)**
  - Outlook, Warrant, Zidua

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POST Herbicides in Soybean

**ACCCase inhibitors (1)**
- Assure II, Post Plus, Select Max

**ALS inhibitors (2)**
- Classic, FirstRate, Raptor, Synchrony

**Glyphosate (9)**
- Cobra, Flexstar, Ultra Blazer

**PPO inhibitors (14)**
- Authority, Valor

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Multiple Herbicide-Resistant Soybean

- Liberty Link Soybean
- Dicamba plus glyphosate resistant soybean (Roundup Ready 2 Xtend)
- 2,4-D plus glyphosate resistant soybean (Enlist Soybean)
- Isoxaflutole plus glyphosate resistant soybean (Balance Bean/GT)
- MGI Soybean