Lumax EZ vs. Resicore

With weed resistance expanding and corn commodity prices tightening input budgets, farmers are looking for products that deliver a good return on their investment. Containing atrazine, S-metolachlor and mesotrione, Lumax® EZ corn herbicide has three sites of action and delivers more effective weed control dollar for dollar than Resicore corn herbicide.

Comparing Effective Sites of Action

Lumax EZ

Active ingredients:

- **Mesotrione**
  (HPPD Inhibitor, Site Of Action Group 27)

- **Atrazine**
  (PSII Inhibitor, Site Of Action Group 5)

- **S-metolachlor**
  (VLCFA Inhibitor, Site Of Action Group 15)

Resicore

Active ingredients:

- **Mesotrione**
  (HPPD Inhibitor, Site Of Action Group 27)

- **Clopyralid (Stinger®)**
  (Plant Growth Regulator, Site Of Action Group 4)

- **Acetochlor**
  (VLCFA Inhibitor, Site Of Action Group 15)

Resicore has three sites of action (groups 4, 15 and 27) but only two are effective at providing residual control because one of its active ingredients, clopyralid (Stinger), is not a lethal dose rate. Lumax EZ contains three effective sites of action (groups 5, 15 and 27).

- Fields are **83 times less likely to develop weed resistance if they receive more than 2.5 effective sites of action** per herbicide application\(^1\)

- Lumax EZ manages broadleaf weed biotypes resistant to ALS-inhibiting, glyphosate, PPO and triazine herbicides
  - Proactive resistance management **increases estimated grower profits by 14-17.5%** over a 20-year planning horizon\(^2\)
  - Managing resistance pays for itself quickly, within 2-3 years\(^2\)

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\(^1\) Evans ETAL Pest Manag Sci. 2016 Jan;72(1):74-80. doi:

Residual Control Comparison

<table>
<thead>
<tr>
<th>Weed Control (%)</th>
<th>Resicore 3.0 qt/A PRE</th>
<th>Lumax EZ 3.25 qt/A PRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>N=4</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>N=3</td>
<td>92</td>
<td>97</td>
</tr>
<tr>
<td>N=5</td>
<td>98</td>
<td>97</td>
</tr>
</tbody>
</table>

Waterhemp: 60-90 DAT
Lambsquarters: 60-90 DAT
Giant foxtail: 60-90 DAT

Trial Information:
- Trial locations: IA, IL, MO, IN.
- Plot Size: Minimum 10 ft x 30 ft.
- Replications: 3
- Application Rates and Timing: Lumax EZ 2.7-3.25 qt/A and Resicore 2.5-3 qt/A as preemergence application.
- DAT: Days after treatment, N= Number of trials.
- Data from 6 Syngenta and university-replicated trials in 2016 (applied preemergence)
- Summary provided by Syngenta Technical Services

Learn more about Lumax EZ at www.syngenta-us.com/herbicides/lumax-ez and join the conversation using #ToughWeeds.

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