Field evaluation of fungicides for management of Sclerotinia on dry edible (pinto) beans
Carrington, ND (2013)  ■  14-inch row spacing

KEY FINDINGS:

Applied as two sequential applications 14 days apart, Topsin (30 fl oz/ac) and Endura (8 oz/ac) provided better control of Sclerotinia than Aproach (12 fl oz/ac) and Quash (2 and 4 oz/ac). The performance of Proline (5.7 fl oz/ac) was intermediate.

Concentrations of active ingredients in products evaluated in this trial:

<table>
<thead>
<tr>
<th>Product</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aproach</td>
<td>250 grams picoxystrobin per liter</td>
</tr>
<tr>
<td>Endura</td>
<td>700 grams boscalid per kilogram</td>
</tr>
<tr>
<td>Topsin</td>
<td>540 grams thiophanate-methyl per liter</td>
</tr>
<tr>
<td>Proline</td>
<td>480 grams prothioconazole per liter</td>
</tr>
<tr>
<td>Quash</td>
<td>500 grams metconazole per kilogram</td>
</tr>
</tbody>
</table>

SUMMARY OF KEY RESULTS:

Within-column means followed by different letters are significantly different ($P < 0.05$; Fisher’s protected least significant difference).

Aproach and Quash were applied with 0.25% (v/v) non-ionic surfactant. Proline was applied with 0.125% (v/v) non-ionic surfactant.

Fungicides were applied with 8001VS flat-fan nozzles in 15 gallons of water per acre at 35 psi.

Fungicide application A: August 7 (at canopy closure; dry beans at R3 growth stage, no Sclerotinia present)

Fungicide application B: August 21 (dry beans at R5 growth stage; Sclerotinia at low levels in non-treated control).
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Fungicide performance can differ in response to which diseases are present, levels of disease when products are applied, environmental conditions, plant architecture and the susceptibility to disease of the variety planted, crop growth stage at the time of fungicide application, and other factors.

This report summarizes fungicide performance as tested at the NDSU Carrington Research Extension Center under the conditions partially summarized in this report.

Fungicide efficacy may differ under other conditions; when choosing fungicides, always evaluate results from multiple trials.

This report is shared for educational purposes and is not an endorsement of any specific products.