1987

Post emergence weed control in lupins.

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TRIAL TITLE: Post emergence radish control in wheat

TRIAL NUMBER: 87WH67

OFFICERS: R. Madin, J. Buckley

CO-OPERATOR: Wongan Hills LOCATION: Wongan Hills Research Station

CROP: Eradu wheat DATE SOWN: June 1987

SOIL TYPE: Wongan loamy sand BLANKET TREATMENT: Nil

GROUND PREPARATION: Conventional

EXPERIMENTAL DESIGN: Randomized complete blocks - 3 replicates

PLOT SIZE: 30 m x 3 m

HARVESTING: 29 m x 1.78 m with Claas header December 1, 1987

SPRAYING DETAILS:

SPRAYING DATE: July 21, 1987 TIME: 4.45 pm

EQUIPMENT: Toyota Dual Cab NOZZLE TYPE: 110015LP

PRESSURE: 175 kPa VOLUME: 68 L/ha

WIND SPEED: 0-5 km/hr DIRECTION

TEMPERATURES: DRY: 12°C WET: 8°C RH: 58%

MOISTURE: SURFACE: Dry DEPTH: Damp

CHEMICAL: Diflufenican + MCPA Ester (Tigrex), Diuron + MCPA Ally, Glean, Brodal, Diuron

ADDITIVES: Nil

CROP GROWTH STAGE: Z15.5/22

WEED GROWTH STAGE: Radish up to 15 cm

Doublegee up to 10 cm

Few lupin, capeweed, barley grass
Post-emergence radish control in wheat

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Radish/m²</th>
<th>Yield kg/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>R1</td>
</tr>
<tr>
<td>1 Tigrex 0.5 L</td>
<td>8.4</td>
<td>1,319</td>
</tr>
<tr>
<td>2 Tigrex 0.6 L</td>
<td>0.5</td>
<td>1,242</td>
</tr>
<tr>
<td>3 Tigrex 0.8 L</td>
<td>1.6</td>
<td>1,145</td>
</tr>
<tr>
<td>4 Tigrex 1.0 L</td>
<td>0.7</td>
<td>1,319</td>
</tr>
<tr>
<td>5 Diuron + MCPA 350 + 400 mL</td>
<td>32.0</td>
<td>1,280</td>
</tr>
<tr>
<td>6 Diuron + Brodal 300 + 50 mL</td>
<td>6.8</td>
<td>1,183</td>
</tr>
<tr>
<td>7 Ally + Brodal 5 g + 75 mL</td>
<td>58.4</td>
<td>892</td>
</tr>
<tr>
<td>8 Glean 15 g</td>
<td>27.2</td>
<td>1,319</td>
</tr>
<tr>
<td>9 Ally 5 g</td>
<td>19.5</td>
<td>1,145</td>
</tr>
<tr>
<td>10 Brodal 50 mL</td>
<td>28.8</td>
<td>1,067</td>
</tr>
<tr>
<td>11 Brodal 100 mL</td>
<td>14.4</td>
<td>1,067</td>
</tr>
<tr>
<td>12 Brodal 150 mL</td>
<td>15.2</td>
<td>1,183</td>
</tr>
<tr>
<td>13 Control</td>
<td>44.1</td>
<td>1,145</td>
</tr>
</tbody>
</table>

CV% 65 LSD 26 CV% 18 LSD 496

Comments

Good to excellent radish control was achieved with Tigrex at all rates and Diuron + Brodal. Lesser control was achieved with Brodal alone, Glean and Ally while Diuron + MCPA gave unsatisfactory control although some suppression of radish. Brodal + Ally proved antagonistic and also caused some crop damage. Slight crop height suppression followed the use of Glean and Ally when used alone.

Unfortunately, replicate variability in crop yield, which was not readily observed in the unharvested crop, masks crop yield response to radish removal.

As a general assessment in can be said that Tigrex is a safe and efficient herbicide for control of radish in wheat. Brodal alone was generally unsatisfactory for radish control. While Diuron + Brodal was safe and efficient, Ally and Brodal should not be used together. Diuron + MCPA gave poorer control than one would normally expect.