Crop survey results CQ

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Take home messages

- A large number of weed seeds are being produced at winter crop harvest
- There is a need for harvest weed seed management in northern winter crops
Improving weed management

Fallow

Winter crop

Fallow

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### Overview of findings

<table>
<thead>
<tr>
<th></th>
<th>Central Highlands</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wheat</td>
</tr>
<tr>
<td>Number of weed species</td>
<td>5</td>
</tr>
<tr>
<td>Number of weed species seeding at harvest</td>
<td>4</td>
</tr>
</tbody>
</table>
Wheat

Average weed seed retention

<table>
<thead>
<tr>
<th>Weed</th>
<th>% seeds retained</th>
<th>Seeds retained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sowthistle</td>
<td>11</td>
<td>1320</td>
</tr>
<tr>
<td>Mallow</td>
<td>100</td>
<td>56</td>
</tr>
<tr>
<td>Wild sunflower</td>
<td>95</td>
<td>547</td>
</tr>
</tbody>
</table>
### Average weed seed retention

<table>
<thead>
<tr>
<th>Weed</th>
<th>% seeds retained</th>
<th>Seeds retained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sowthistle</td>
<td>19</td>
<td>4470</td>
</tr>
<tr>
<td>African turnip weed</td>
<td>100</td>
<td>33100</td>
</tr>
<tr>
<td>Flaxleaf fleabane</td>
<td>98</td>
<td>17800</td>
</tr>
<tr>
<td>Sweet summer grass</td>
<td>70</td>
<td>1660</td>
</tr>
<tr>
<td>Feathertop Rhodes grass</td>
<td>54</td>
<td>11600</td>
</tr>
<tr>
<td>Mexican poppy</td>
<td>100</td>
<td>16000</td>
</tr>
</tbody>
</table>
## Sorghum

### Average weed seed retention

<table>
<thead>
<tr>
<th>Weed</th>
<th>% seeds retained</th>
<th>Seeds retained</th>
<th>% above harvest height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sowthistle</td>
<td>70</td>
<td>8700</td>
<td>85</td>
</tr>
<tr>
<td>Bladder ketmia</td>
<td>35</td>
<td>175</td>
<td>100</td>
</tr>
<tr>
<td>Feathertop Rhodes grass</td>
<td>100</td>
<td>13600</td>
<td>60</td>
</tr>
<tr>
<td>Pumpkin vine</td>
<td>100</td>
<td>360</td>
<td>100</td>
</tr>
<tr>
<td>Wild sunflower</td>
<td>98</td>
<td>2750</td>
<td>100</td>
</tr>
</tbody>
</table>
Where to know?

Do existing HWSC technologies fit?
– our farming systems
– our weeds

• What impact will they have on future weed populations?
Call to action

• Recognise the value of stopping weed seed return

• Evaluate:
  – Weed control in crop
  – How to control sprayed survivors

• Ask the questions:
  – What is the impact of weed seed return?
  – What options are available late in crop to stop weed seed return?
Thank you

Co-operators
Technical support