Seed set control

AT ALL COSTS
Whole farm approach at Cordering

• Rotation
  – Barley with Trifluralin
  – Barley with Boxer Gold
  – Barley with imi
  – Wheat with Sakura
  – Row spacing and seeding rate

  – Canola with Propyzamide, Atrazine and Select
Twin boomspray system

Atrazine & Select

(separate tanks)
Spraying under swather
Harvest

• Swathing cereal
• HSD
• Setting up the headers (open them up)
• What do we do now? (DO SOMETHING)
  – Windrow burning
  – Chaff cart
  – HSD
  – Bale Direct
  – Chaff Tramlining
Harrington seed destructor

<table>
<thead>
<tr>
<th></th>
<th>Lolium</th>
<th>Raphanus</th>
<th>Avena</th>
<th>Bromus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed destroyed in chaff (%)</td>
<td>95</td>
<td>92</td>
<td>99</td>
<td>98</td>
</tr>
</tbody>
</table>
Harrington seed destructor
Integrated HSD
Integrated HSD

- My involvement in IHSD development
  - GRDC, UWA, Uni SA and Ray Harrington
- 2013/14 field trial prototype
  - IHSD in 9230 case header
- 2014/15 Five field tested WA and SA
- 80 horsepower to drive the IHSD

<table>
<thead>
<tr>
<th>Class</th>
<th>Horsepower</th>
<th>Harvest capacity (t/hr)</th>
<th>Harvest capacity with IHSD (t/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>300</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>8</td>
<td>400</td>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td>9</td>
<td>500</td>
<td>50</td>
<td>40</td>
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</tbody>
</table>
The war on weeds!

- Double knock
- Seed set control (*get the survivors*)
- Getting the weed seeds into the header
  - Header set-up
  - Cutting low
  - Windrowing
Questions?

Three HSDs working in 2012