1987

**Trial 65SG5**

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Locality: Paddock H5 on Salmon Gum Research Station

Soil type: Complex of Kumari loam (heavy) and Circle Valley/Beete calcareous sandy loam (lighter).

History:

Cleared in 1962, then cropped until the start of the trial in 1968. Two of the four blocks were sown to Cyprus Barrel medic which is topdressed with superphosphate. The other two blocks regenerate volunteer pasture which is not topdressed. In 1984 all pasture plots were sown to SERENA medic. This grew exceptionally well in 1984 and set a lot of seed. In 1987 field peas were introduced into 4 reps of an existing medic:crop rotation.

Rainfall: in mm.

<table>
<thead>
<tr>
<th>May</th>
<th>June</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>42</td>
<td>24</td>
<td>33</td>
<td>23</td>
<td>8</td>
<td>194</td>
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</tbody>
</table>

Wheat yields: Gutha sown on June 2

- 24th crop - Nil N fertiliser 778 kg/ha
- 24th crop - + 40 kg Agran/ha 784 kg/ha

Rotation kg/ha

- 1 crop : 1 year medic, 1st crop 1190 kg/ha
- 1 crop : 3 year medic, 1st crop 1197 kg/ha
- 3 crop : 3 year medic, 1st crop 1232 kg/ha
  - 2nd crop 1166 kg/ha
  - 3rd crop 1065 kg/ha

Pea yields: Dundale sown on June 1.

Rotation kg/ha

- 1 peas : 1 crop 581 kg/ha

1. Stubble was burnt on May 14. All crop plots were scarified on May 30. Field pea plots were sown with Dundale at 100 kg/ha and plain superphosphate at 124 kg/ha; sprayed with Rogor (70 ml/ha) on June 18 and with Lorsban (140 ml/ha) on June 19 and 25. Wheat plots were sown with Gutha at 59 kg/ha and plain superphosphate at 119 kg/ha. The northern
half of continuous crop plots was topdressed with Agran 34 at 40 kg/ha. All wheat plots except those in a medic:crop rotation were sprayed with Hoegrass (500 ml/ha) plus Bromoxynil (750 ml/ha) on July 7.

2. Annual ryegrass was worst in the third crop and in the continuous plus nitrogen, although sprayed with Hoegrass it had probably affected yields.