Rates of phosphorus and potassium for lupins on the South Coast,

M. Seymour

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TITLE: Rates of Phosphorus and Potassium for Lupins on the South Coast
PERSONNEL: Seymour, M. (RO) and Burgess, P. (TO)
DATE: 1990
EX FILE: 6358
TRIAL NUMBER: 90ES23
DOS FILENAME: SEYM90f.xls
Trial No. 90ES23

Title. Phosphorus and potassium response of lupins in high rainfall areas.

Aim. To evaluate the response of lupins to Phosphorus and Potassium response of lupins in high rainfall areas.

Treatments.
5 phosphorus levels (0, 50, 100, 200 and 400 kg/ha of superphosphate) x 4 potassium levels (0, 50, 100, and 200 kg/ha of Muriate of potash topdressed).

Site Details

Location: Ross Whittals Neridup

Soil type:
Grey sand 30cm/ yellow sand 30-100cm

Paddock history:
1988 = lupins 1989 = cereal

Site preparation:
28/4/90 Roundup 400ml/ha + Simazine @ 2.5l/ha (farmer)

Sowing details:
8/5/90 trial sown as per schedule
@ 30 kg/ha of MnSO₄ + basal applications of gypsum applied as a mix at seeding.

Post sowing treatments:
20/6/90 Lorsban 350ml/ha, Fusilade 300 ml/ha + 0.2% wetter all tos
7/6/90 potassium treatments topdressed by hand

Harvest date: 26/11/90

Comments:
There was no significant response to phosphorus or potassium in this trial. 2.4 t/ha of seed was harvested from plots that had no phosphorus or potassium.
Table 1: 90ES23 Seed yield response to phosphorus and potassium at Ross Whittals, Neridup

<table>
<thead>
<tr>
<th>Superphosphate</th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2432</td>
<td>2388</td>
<td>2216</td>
<td>2141</td>
<td>2294</td>
</tr>
<tr>
<td>50</td>
<td>2462</td>
<td>2344</td>
<td>2555</td>
<td>2353</td>
<td>2428</td>
</tr>
<tr>
<td>100</td>
<td>2452</td>
<td>2387</td>
<td>2497</td>
<td>2581</td>
<td>2479</td>
</tr>
<tr>
<td>200</td>
<td>2589</td>
<td>2407</td>
<td>2562</td>
<td>2538</td>
<td>2524</td>
</tr>
<tr>
<td>400</td>
<td>2533</td>
<td>2331</td>
<td>2615</td>
<td>2553</td>
<td>2513</td>
</tr>
</tbody>
</table>

Mean: 2497 2371 2489 2433 2448

P < (Phosphorus) ns
P < (Potassium) ns
P < (Phosphorus * Potassium) ns