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Yields of the Field Experiments 1995



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95/W/LP/2 Establishment Study on Heavy Soil - Lupins

Rothamsted Research

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95/W/LP/2

LUPINS

ESTABLISHMENT STUDY ON HEAVY SOIL

Object: To identify seedbed conditions for the establishment and survival of autumn-sown lupins - Woburn, Long Mead.

Sponsor: I. Shield.

Design: 3 blocks of 8 plots.

Whole plot dimensions: 6.0×9.0 .

Treatments:

ESTABL	Seedbed type, cultivations and method of sowing:
1	Medium-coarse seedbed, unconsolidated, precision drilled 5 cm deep
2	Medium-coarse seedbed, unconsolidated, tine-drilled 5 cm deep
3	As 2, then rolled
4	Fine seedbed, consolidated, tine-drilled 5 cm deep, rolled
5	Medium-coarse seedbed, unconsolidated, tine-drilled 7.5 cm deep
6	Direct drilled 5 cm deep, seed mixed with slug pellets
7	Minimal cultivations, seed broadcast with slug pellets, cultivated to 5 cm
8	Seed broadcast, ploughed to 10 cm, levelled

Experimental diary:

```
08-Sep-94 : T : ESTABL 1, 2, 3, 4, 5, 7 and 8: Sub-soiled.
12-Sep-94 : T : ESTABL 1, 2, 3, 4, 5: Ploughed.
          : T : ESTABL 1: Precision drilled 5 cm deep.
          : T : ESTABL 2, 3: Time drilled 5 cm deep.
          : T : ESTABL 4: Flat rolled, rotary harrowed, tine-drilled
                    5 cm deep.
          : T : ESTABL 3, 4: Cambridge rolled.
          : T : ESTABL 5: Precision drilled 7.5 cm deep.
          : T : ESTABL 6: Direct drilled 5 cm deep with Draza at 5.5 kg.
          : T : ESTABL 7: Seed broadcast with Draza at 5.5 kg. Rotary
                   harrowed to 5 cm.
          : T : ESTABL 8: Seed broadcast, ploughed 10 cm deep, rotary
                   harrowed to level.
18-Sep-94 : B : Opogard 500 SC at 2.3 1 with Gramoxone 100 at 3.0 1 in
                   200 1.
02-Nov-94 : B : Laser at 1.0 l with adjuvant oil at 2.4 l in 300 l.
19-Apr-95 : B : Cultar at 0.75 1 in 300 1.
28-Apr-95 : B : Atlas Simazine at 2.0 1 in 300 1.
03-May-95 : B : Danadim Dimethoate 40 at 0.85 1 with Vassgro Spreader at
                   0.3 1 in 300 1.
30-Jun-95 : B : Danadim Dimethoate 40 at 850 ml in 300 1.
24-Aug-95 : B : Combine harvested.
```

95/W/LP/2

NOTES: (1) Seed was CH304/70, dressed Germipro UFB, sown at 40 seeds per m^2 .

(2) The crop on treatment 8 failed and has been omitted from the analysis.

Previous crops: Set-aside 1993, w. wheat 1994.

NOTE: Plants were counted monthly from sowing to April. Dry matter was measured in December. Leaf and branch numbers were counted postflowering. Components of yield were measured, oil and protein content of grain was assessed on **ESTABL** 1 only.

GRAIN TONNES/HECTARE

***** Tables of means *****

ESTABL

1 1.02 2 1.20 3 1.41 4 1.35 5 0.98 6 0.64 7 1.07

*** Standard errors of differences of means ***

1.10

ESTABL

0.214

Mean

***** Stratum standard errors and coefficients of variation *****

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 12
 0.263
 24.0

GRAIN MEAN DM% 88.9

PLOT AREA HARVESTED 0.00135