

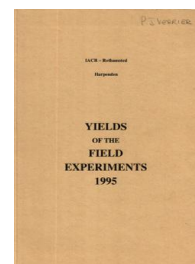
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95/W/LP/2 Establishment Study on Heavy Soil - Lupins

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 x 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: Tine 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 l with Gramoxone 100 at 3.0 l in 200 l.
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 l in 300 l.
28-Apr-95 : B : Atlas Simazine at 2.0 l in 300 l.
03-May-95 : B : Danadim Dimethoate 40 at 0.85 l with Vassgro Spreader at 0.3 l in 300 l.
30-Jun-95 : B : Danadim Dimethoate 40 at 850 ml in 300 l.
24-Aug-95 : B : Combine harvested.

95/W/LP/2

- NOTES:** (1) Seed was CH304/70, dressed Germipro UFB, sown at 40 seeds per m².
 (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 post-flowering. 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

Mean 1.10

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

ESTABL

0.214

***** 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		