

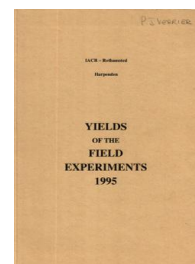
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95/R/LP/9 Canopy Structure and Yield - Lupins

Rothamsted Research

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95/R/LP/9

LUPINS

CANOPY STRUCTURE AND YIELD

Object: To assess the effects of canopy structure and leaf and pod photosynthesis on the dry matter production and yield of two lupin lines - Highfield VI.

Sponsors: J.E. Leach, T. Scott.

Design: 4 randomised blocks of 2 plots (duplicated).

Plot dimensions: 2.88 x 10.0.

Treatments:

VARIETY

70	CH304/70
73	CH304/73

Experimental diary:

29-Jul-94 : B : Deep tine cultivated with vibrating tines 60 cm apart and 45 cm deep. Rolled.
04-Aug-94 : B : Ploughed and furrow pressed. Rolled.
05-Sep-94 : T : VARIETY 70, 73: Rotary harrowed, varieties drilled at 40 seeds per m².
06-Sep-94 : B : Opogard 500 SC at 2.8 l in 220 l.
12-Sep-94 : B : Draza at 5.5 kg.
30-Nov-94 : B : Falcon at 1.0 l in 200 l.
16-Dec-94 : B : Farmon PDQ at 15.0 l in 900 l, inter-row sprayed using dribble bar.
19-Jan-95 : B : Hand weeded.
30-Jan-95 : B : Hand weeded.
13-Mar-95 : B : Atlas Simazine at 2.0 l in 200 l.
12-Apr-95 : B : Cultar at 0.75 l in 200 l.
23-May-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.
20-Jun-95 : B : Corbel at 0.5 l with Tilt Turbo 475 EC at 1.0 l in 200 l.
30-Jun-95 : B : Atlas Dimethoate 40 at 850 ml in 200 l.
17-Aug-95 : B : Hand harvested.

Previous crops: W. wheat 1993, set-aside 1994.

NOTE: Radiation interception was measured weekly from spring to the start of maturity. Dry matter, photosynthesis and canopy structure was measured fortnightly from spring till harvest.

95/R/LP/9

GRAIN TONNES/HECTARE

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

VARIETY	70	73	Mean
	1.58	3.21	2.39

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

VARIETY
0.455

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	11	0.910	38.0

GRAIN MEAN DM% not measured

PLOT AREA HARVESTED 0.00011