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95/R/LP/7 Growth Regulator Study - Lupins

Rothamsted Research

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95/R/LP/7

LUPINS

GROWTH REGULATOR STUDY

Object: To assess the effectiveness of growth regulators in shortening and strengthening autumn-sown lupins at risk of lodging - Highfield VI.

Sponsors: I. Shield, G.F.J. Milford, J. Leach.

Design: 3 randomised blocks of 5 plots.

Plot dimensions: 3.0 x 9.0.

Treatments:

GROW REG	Growth regulator:
-	None
TR	Triapenthanol
PA	Paclobutrazol
AD	Chlormequat
FO	Tebuconazole

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 : B : Rotary harrowed. CH304/70, dressed Germipro UFB, drilled at 40 seeds per m².
06-Sep-94 : B : Opogard 500 SC at 2.8 l in 200 l.
12-Sep-94 : B : Draza at 5.5 kg.
30-Nov-94 : B : Falcon at 1.0 l in 200 l.
20-Dec-94 : B : Farmon PDQ at 15.0 l in 900 l, inter-row sprayed using dribble bar.
03-Feb-95 : B : Hand weeded.
13-Mar-95 : B : Atlas Simazine at 2.0 l in 200 l.
04-Apr-95 : T : **GROW REG** PA: Cultar at 826 g in 220 l.
 : T : **GROW REG** TR: Triapenthanol at 700 g in 220 l.
 : T : **GROW REG** AD: Adjust at 3.0 l in 220 l.
 : T : **GROW REG** FO: Folicur at 1.0 l in 220 l.
19-Apr-95 : B : Atlas Dimethoate 40 at 850 ml 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.
18-Aug-95 : B : Combine harvested.

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

NOTE: Plant numbers were assessed in April, May and at harvest. Plant height was measured fortnightly during stem extension. Dry matter of plant components and leaf area index were measured in July. Components of yield were measured at harvest.

95/R/LP/7

GRAIN TONNES/HECTARE

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

GROW REG

-	1.77
TR	1.35
PA	1.39
AD	1.10
FO	1.27

Mean	1.38
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*** Standard errors of differences of means ***

GROW REG

0.212

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.260	18.9

GRAIN MEAN DM% 91.1

PLOT AREA HARVESTED 0.00101