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

Rothamsted Research

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96/R/LP/7

WINTER LUPINS

GROWTH REGULATOR STUDY

Object: To assess the effectiveness of growth regulators in shortening and/or strengthening lupin plants at risk of lodging - Appletree.

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

Design: 3 randomised blocks of 6 plots.

Plot dimensions: 3.0 x 9.0.

Treatments:

GROW REG	Growth regulator, common name (product name):
-	None
TR	Triapenthenol
CU	Paclobutrazol (Cultar)
AD	Chlormequat (Adjust)
FO	Tebuconazole (Folicur)
AD+FO	Chlormequat and tebuconazole

Experimental diary:

26-Jul-95 : B : Straw removed.
04-Aug-95 : B : Ploughed and furrow pressed.
08-Sep-95 : B : Rotary harrowed twice, CH304/70 drilled at 40 seeds per m².
14-Sep-95 : B : Stomp 400 SC at 5.0 l in 200 l.
18-Oct-95 : B : Laser at 0.75 l with Atlas Adjuvant Oil at 1.6 l in 200 l.
29-Mar-96 : B : Atlas Simazine at 2.3 l in 200 l.
25-Apr-96 : T : GROW REG AD: Adjust at 3.0 l in 220 l.
 : T : GROW REG CU: Cultar at 0.75 l in 220 l.
 : T : GROW REG AD+FO: Adjust at 1.5 l with Folicur at 1.0 l in 220 l.
 : T : GROW REG FO: Folicur at 1.0 l in 220 l.
 : T : GROW REG TR: Triapenthenol at 700 g in 220 l.
10-Jul-96 : B : Mistral at 1.0 l in 260 l.
18-Jul-96 : B : Benlate Fungicide at 1.1 kg with Pirimicarb 50 DG at 280 g and Vassgro Spreader at 78 ml in 260 l.
03-Sep-96 : B : Reglone at 3.0 l in 390 l.
11-Sep-96 : B : Combine harvested.

Previous crops: W. rape 1994, w. barley 1995.

NOTE: Plant density was assessed in April and at harvest. Plant height was measured regularly April to July. Stem diameters, dry matter and plant components were measured in July. Components of yield were assessed at harvest.

96/R/LP/7

GRAIN TONNES/HECTARE

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

GROW REG	
-	1.00
TR	1.62
CU	1.33
AD	1.62
FO	1.55
AD+FO	1.87
Mean	1.50

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

GROW REG	
	0.329

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.402	26.8

GRAIN MEAN DM% 84.8

PLOT AREA HARVESTED 0.00161