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96/R/LP/15 Nitrogen and Ripening - Lupins

Rothamsted Research

Rothamsted Research (1997) *96/R/LP/15 Nitrogen and Ripening - Lupins* ; Yields Of The Field Experiments 1996, pp 163 - 164 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/R/LP/15

LUPINS

NITROGEN AND RIPENING

Object: To study the effects of nitrogen supply and premature crop senescence by desiccation upon time of ripening, yield and quality - Sawyers I E.

Sponsors: I. Shield, D. Newton (Newcastle University).

Design: 4 randomised blocks of 3 x 2 plots.

Whole plot dimensions: 3.0 x 9.0.

Treatments: All combinations of:-

1. **NITROGEN** Foliar N (kg):
 N0 None
 N1 30 in one application
 N2 60 in two applications of 30, one week apart

2. **DESCCANT** Desiccant:
 - None
 G Glyphosate

NOTE: LP/15 was sited over a previous experiment testing chemicals for insect control, which was discontinued owing to a lack of insects. No residual effects were evident.

Experimental diary:

- 08-Sep-95 : B : Rotary harrowed, CH304/70, dressed Germipro and Promet, drilled at 40 seeds per m².
- 14-Sep-95 : B : Stomp 400 SC at 5.0 l in 200 l.
- 12-Oct-95 : B : Draza at 5.5 kg.
- 02-Apr-96 : B : Atlas Simazine at 2.3 l in 200 l.
- 20-Jun-96 : B : Mistral at 1.0 l in 200 l.
- 27-Jun-96 : T : **NITROGEN** N1, N2: 46% N at 65.2 kg in 400 l.
- 05-Jul-96 : T : **NITROGEN** N2: 46% N at 65.2 kg in 400 l.
- 18-Jul-96 : B : Benlate Fungicide at 1.1 kg with Pirimicarb 50 DG at 280 g and Vassgro Spreader at 80 ml in 260 l.
- 08-Aug-96 : T : **DESCCANT** G: Roundup at 3.0 l in 220 l.
- 02-Sep-96 : B : Combine harvested.

Previous crops: W. wheat 1994, fallow 1995.

NOTE: Components of yield were assessed at harvest. Nitrogen and oil content of grain was measured.

96/R/LP/15

GRAIN TONNES/HECTARE

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

DESCCANT NITROGEN	-	G	Mean
N0	1.68	1.67	1.67
N1	1.77	1.68	1.73
N2	1.41	1.24	1.32
Mean	1.62	1.53	1.57

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

NITROGEN	DESCCANT	NITROGEN DESCCANT
0.108	0.088	0.152

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.215	13.7
GRAIN MEAN DM%	83.5		
PLOT AREA HARVESTED	0.00197		