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# Yields of the Field Experiments 1985

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## 85/R/CS/314 Control of Stem Nematode - Lucerne

### Rothamsted Research

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85/R/CS/314

CONTROL OF STEM NEMATODE

Object: To study the effects of a range of nematicides and methods of application on the control of stem nematode and on the yield of lucerne - Long Hoos IV 2.

Sponsor: A.G. Whitehead.

The first year, lucerne.

Design: 3 randomised blocks of 13 plots.

Whole plot dimensions: 1.22 x 3.66.

Treatments:

TREATMNT	Nematicides and methods of application:
0	None (duplicated) Carbofuran at 1.5 kg to seed furrows at sowing, followed by materials applied after the first cut:
CF 0	None (triplicated)
CF CF	Carbofuran at 1.5 kg over the rows
CF AL	Aldicarb at 1.5 kg
CF DI H	Dimethoate at 1.5 kg over the rows, applied by conventional, hydraulic sprayer
CF DI E	As above by electrostatic sprayer
CF TB H	As above but thiabendazole at 1.5 kg by hydraulic sprayer
CF TB E	As above by electrostatic sprayer
CF TD H	As above but thiodicarb at 1.5 kg by hydraulic sprayer
CF TD E	As above by electrostatic sprayer

NOTES: (1) Aldicarb was applied in 7500 l by weeder bar.  
(2) Hydraulic sprays were applied in 310 l and electrostatic sprays in 5.7 l.

Basal applications: Manures: (0:24:24) at 730 kg. Weedkiller:  
Glyphosate at 1.5 kg in 280 l.

Seed: Europe, seed inoculated with Rhizobium, sown at 11 kg.

Cultivations, etc.: - Glyphosate applied: 12 Nov, 1984. PK applied:  
26 Nov. Ploughed: 27 Nov. Power-harrowed twice, seed sown and seed  
furrow treatments applied: 3 Apr, 1985. First cut: 21 Aug. Aldicarb  
treatment applied: 2 Sept. Other treatments applied: 6 Sept. Second  
cut: 6 Nov. Previous crops: Grass/white clover in 1983 and 1984.

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1ST CUT (21/8/85) DRY MATTER TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

TREATMNT	
0	1.47
CF 0	2.73
CF CF	2.41
CF AL	2.61
CF DI H	2.99
CF DI E	2.86
CF TB H	2.82
CF TB E	2.99
CF TD H	2.53
CF TD E	2.90
MEAN	2.55

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	TREATMNT
-----	-----
SED	0.304 (1)
	0.471 (2)
	0.385 (3)
	0.408 (4)

- TREATMNT  
(1) 0 V CF 0  
(2) ANY OF THE REMAINDER  
(3) CF 0 V ANY OF THE REMAINDER  
(4) 0 V ANY OF THE REMAINDER

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP	25	0.577	22.6
1ST CUT MEAN DM%	22.0		

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2ND CUT (6/11/85) DRY MATTER TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

TREATMNT	
0	0.22
CF 0	0.94
CF CF	0.55
CF AL	0.61
CF DI H	0.97
CF DI E	1.21
CF TB H	0.66
CF TB E	0.92
CF TD H	0.83
CF TD E	0.98
MEAN	0.77

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	TREATMNT
-----	-----
SED	0.160 (1)
	0.248 (2)
	0.203 (3)
	0.215 (4)

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.304	39.6
2ND CUT MEAN DM%	29.2		

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TOTAL OF 2 CUTS DRY MATTER TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

TREATMNT	
0	1.67
CF 0	3.67
CF CF	2.94
CF AL	3.22
CF DI H	3.96
CF DI E	4.07
CF TB H	3.48
CF TB E	3.90
CF TD H	3.36
CF TD E	3.87
MEAN	3.32

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	TREATMNT
-----	-----
SED	0.437 (1)
	0.677 (2)
	0.552 (3)
	0.586 (4)

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP	25	0.829	25.0
TOTAL OF 2 CUTS MEAN DM%	25.9		
PLOT AREA HARVESTED	0.00045		