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# Yields of the Field Experiments 1986

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

### Rothamsted Research

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86/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 second year, lucerne.

For previous year see 85/R/CS/314.

Design: 3 randomised blocks of 13 plots.

Whole plot dimensions: 1.22 x 3.66.

Treatments:

TREATMNT	Nematicides and methods of application, cumulative to applications in 1985:
0	None (duplicated) Materials applied after each cut except the last:
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) All plots other than TREATMNT 0 received carbofuran at 1.5 kg to seed furrows at sowing in 1985.  
(2) Aldicarb was applied in 7500 l by weeder bar.  
(3) Hydraulic sprays were applied in 310 l and electrostatic sprays in 5.7 l.

Basal applications: Manures: (0:24:24) at 730 kg. Muriate of potash at 520 kg. Weedkiller: Propyzamide at 0.70 kg in 220 l.

Cultivations, etc.: - Muriate of potash applied: 18 Nov, 1985. PK applied, weedkiller applied: 16 Jan, 1986. Cut: 16 June. Aldicarb and carbofuran treatments applied: 19 June. Other treatments applied: 2 July. Cut: 29 July. Aldicarb and carbofuran treatments applied: 6 Aug. Other treatments applied: 8 Sept. Cut: 8 Oct.

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1ST CUT (16/6/86) DRY MATTER TONNES/HECTARE

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

TREATMNT	
0	2.45
CF 0	5.84
CF CF	5.74
CF AL	5.69
CF DI H	5.68
CF DI E	6.15
CF TB H	5.89
CF TB E	5.55
CF TD H	5.64
CF TD E	5.81
MEAN	5.28

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

TABLE	TREATMNT
-----	-----
SED	0.380 (1)
	0.589 (2)
	0.481 (3)
	0.511 (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	27	0.722	13.7
1ST CUT MEAN DM%	21.1		

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2ND CUT 29/7/86 DRY MATTER TONNES/HECTARE

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

TREATMNT	
0	2.80
CF 0	4.27
CF CF	4.32
CF AL	4.93
CF DI H	3.79
CF DI E	4.93
CF TB H	4.16
CF TB E	4.14
CF TD H	4.06
CF TD E	4.90
MEAN	4.13

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

TABLE	TREATMNT
-----	-----
SED	0.306 (1)
	0.474 (2)
	0.387 (3)
	0.411 (4)

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.581	14.1
2ND CUT MEAN DM%		24.8	

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3RD CUT (8/10/86) DRY MATTER TONNES/HECTARE

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

TREATMNT	
0	1.05
CF 0	2.00
CF CF	1.64
CF AL	3.25
CF DI H	1.48
CF DI E	2.09
CF TB H	1.88
CF TB E	1.50
CF TD H	1.74
CF TD E	2.21
MEAN	1.84

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

TABLE	TREATMNT
-----	-----
SED	0.223 (1)
	0.346 (2)
	0.282 (3)
	0.300 (4)

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	0.424	23.0
3RD CUT MEAN DM%	21.5		

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TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

TREATMNT	
0	6.30
CF 0	12.12
CF CF	11.70
CF AL	13.87
CF DI H	10.94
CF DI E	13.17
CF TB H	11.93
CF TB E	11.19
CF TD H	11.45
CF TD E	12.91
MEAN	11.24

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

TABLE	TREATMNT
-----	-----
SED	0.676 (1)
	1.046 (2)
	0.854 (3)
	0.907 (4)

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

STRATUM	DF	SE	CV%
BLOCK.WP	27	1.282	11.4
TOTAL OF 3 CUTS MEAN DM%	22.5		
PLOT AREA HARVESTED	0.00045		