

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1986

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1987) *86/R/CS/314 Control of Stem Nematode - Lucerne* ; Yields Of The Field Experiments 1986, pp 155 - 159 - DOI: <https://doi.org/10.23637/ERADOC-1-36>

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.

86/R/CS/314

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		

86/R/CS/314

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	

86/R/CS/314

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		

86/R/CS/314

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		