

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 1985

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1986) *85/R/CS/314 Control of Stem Nematode - Lucerne ; Yields Of The Field Experiments 1985*, pp 185 - 188 - DOI: <https://doi.org/10.23637/ERADOC-1-19>

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.

85/R/CS/314

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

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

TREATMNT	
O	1.47
CF O	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) O V CF O
 (2) ANY OF THE REMAINDER
 (3) CF O V ANY OF THE REMAINDER
 (4) O 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		

85/R/CS/314

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		

85/R/CS/314

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		