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86/R/CS/298 Nematicide Sprays and Stem Nematode - Lucerne

Rothamsted Research

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86/R/CS/298

NEMATOCIDE SPRAYS AND STEM NEMATODE

Object: To study the effects of applying a range of chemicals to stubbles after each cut on the incidence of stem nematode (*Ditylenchus dipsaci*) in lucerne given carbofuran to the seed furrow - Long Hoos IV I.

Sponsor: A.G. Whitehead.

The fourth year, lucerne.

For previous years see 83-85/R/CS/298.

Design: 2 randomised blocks of 16 plots.

Whole plot dimensions: 1.22 x 3.66.

Treatments:

TREATMNT Varieties and chemicals (all applied at 1.5 kg from 1983-1985, none in 1986):

EV O	Euver, untreated
EV C	Euver, carbofuran to seed furrow
ER O	Europe, untreated (duplicated)
ER C	Europe, carbofuran to seed furrow

To variety Europe, all given carbofuran to seed furrow:

ER C AW	Aldicarb watered on
ER C CE	Carbendazim, applied by electrostatic sprayer
ER C CH	Carbendazim, applied by hydraulic sprayer
ER C DE	Dimethoate, applied by electrostatic sprayer
ER C DH	Dimethoate, applied by hydraulic sprayer
ER C PE	Pirimiphos methyl, applied by electrostatic sprayer
ER C PH	Pirimiphos methyl, applied by hydraulic sprayer
ER C TCE	Thiodicarb, applied by electrostatic sprayer
ER C TCH	Thiodicarb, applied by hydraulic sprayer
ER C TBE	Thiabendazole, applied by electrostatic sprayer
ER C TBH	Thiabendazole, applied by hydraulic sprayer

NOTE: Carbofuran was applied to seed furrow, in 1983 only. The other chemicals were applied after each cut in 1983; after each cut except the last in 1984; before the first cut and after each cut except the last in 1985.

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: 28 July, 8 Oct.

86/R/CS/298

1ST CUT (28/7/86) DRY MATTER TONNES/HECTARE

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

TREATMNT	
EV O	15.70
EV C	17.38
ER O	11.88
ER C	12.33
ER C AW	13.81
ER C CE	12.61
ER C CH	12.33
ER C DE	14.44
ER C DH	15.35
ER C PE	11.56
ER C PH	13.11
ER C TCE	15.35
ER C TCH	15.07
ER C TBE	15.21
ER C TBH	12.33
MEAN	13.77

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

TABLE	TREATMNT	
SED	1.697	MIN REP
	1.470	MAX-MIN

TREATMNT
 MAX-MIN ER O V ANY OF THE REMAINDER
 MIN REP ANY OF THE REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	1.697	12.3
1ST CUT MEAN DM%	27.6		

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2ND CUT (8/10/86) DRY MATTER TONNES/HECTARE

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

TREATMNT	
EV O	3.49
EV C	3.72
ER O	3.52
ER C	3.44
ER C AW	3.16
ER C CE	3.72
ER C CH	3.61
ER C DE	3.99
ER C DH	4.05
ER C PE	3.99
ER C PH	3.22
ER C TCE	3.27
ER C TCH	3.94
ER C TBE	3.49
ER C TBH	3.77
MEAN	3.62

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

TABLE	TREATMNT
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SED	0.405 MIN REP
	0.351 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	0.405	11.2
2ND CUT MEAN DM%	21.8		

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TOTAL OF 2 CUTS DRY MATTER TONNES/HECTARE

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

TREATMNT	
EV O	19.19
EV C	21.10
ER O	15.40
ER C	15.77
ER C AW	16.97
ER C CE	16.33
ER C CH	15.94
ER C DE	18.43
ER C DH	19.40
ER C PE	15.56
ER C PH	16.32
ER C TCE	18.62
ER C TCH	19.01
ER C TBE	18.70
ER C TBH	16.11
MEAN	17.39

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

TABLE	TREATMNT
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SED	1.756 MIN REP
	1.520 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	16	1.756	10.1
TOTAL OF 2 CUTS MEAN DM%	24.7		
PLOT AREA HARVESTED	0.00045		