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

Rothamsted Research

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83/R/CS/298

NEMATICIDE 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 first year, lucerne.

Design: 2 randomised blocks of 16 plots.

Whole plot dimensions: 1.2 x 3.7.

Treatments:

TREATMNT	Varieties and chemicals (all applied at 1.5 kg):
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, other treatments applied after each cut
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	Thiocarb, applied by electrostatic sprayer
ER C TCH	Thiocarb, applied by hydraulic sprayer
ER C TBE	Thiabendazole, applied by electrostatic sprayer
ER C TBH	Thiabendazole, applied by hydraulic sprayer

NOTE: An initial sowing, with treatments applied to seed furrow, failed and the site was re-sown with these treatments repeated.

Basal applications: Manures: (0:20:20) at 640 kg. Weedkillers: Glyphosate at 1.5 kg in 220 l. Paraquat, rate not recorded. 2, 4-DB at 2.5 l in 280 l. Propyzamide at 0.7 kg in 220 l.

Seed: Sown at 11 kg.

Cultivations, etc.: - Glyphosate applied: 14 Sept, 1982. Ploughed: 6 Dec. Propyzamide applied: 18 Jan, 1983. PK applied: 7 Mar. *Ditylenchus dipsaci* infected stems spread on plots, spring-tine harrowed: 8 Mar. Rotary harrowed, seed sown: 11 Mar. Paraquat applied by hand by weeder bar: 20 May. Rotary harrowed, seed re-sown: 24 May. 2, 4-DB applied: 23 June. Cut: 15 Aug. Foliar spray treatments applied: 24 Aug. Previous crops: Oilseed rape 1981, s. barley 1982.

83/R/CS/298

FRESH WEIGHT (15/8/83) TONNES/HECTARE

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

TREATMNT	
EV O	2.35
EV C	3.21
ER O	1.70
ER C	2.41
ER C AW	2.23
ER C CE	2.20
ER C CH	3.44
ER C DE	1.78
ER C DH	1.94
ER C PE	1.85
ER C PH	2.77
ER C TCE	3.28
ER C TCH	2.73
ER C TBE	2.77
ER C TBH	3.27
MEAN	2.48

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

TABLE	TREATMNT	
SED	0.727	MIN REP
	0.630	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	0.727	29.4
PLOT AREA HARVESTED	0.00045		