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83/W/CS/295 Effects of Aldicarb and Benomyl - Maize

Rothamsted Research

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83/W/CS/295

FORAGE MAIZE

EFFECTS OF ALDICARB AND BENOMYL

Object: To study the effects of aldicarb and benomyl on nematodes, mycorrhiza and on the yield of forage maize - Woburn Butt Close.

Sponsor: T.D. Williams.

The second year.

For first year see 82/W/MA/1.

Design: 4 randomised blocks of 4 plots, omitting 4 of the blocks in 82/W/MA/1.

Whole plot dimensions: 2.13 x 4.57.

Treatments: All combinations of:-

1. ALDICARB(82) Aldicarb (kg) to seedbed in 1982:

0
5

2. BENOMYL(82) Benomyl (kg) to seedbed in 1982:

0
22

Basal applications: Manures: (20:10:10) at 750 kg. Weedkillers: Atrazine at 1.1 kg in 280 l. Insecticide: Chlorfenvinphos at 2.2 kg as granules.

Seed: Fronica, sown at 100,900 seeds per hectare.

Cultivations, etc.: -

Ploughed: 19 Nov, 1982. Spring-tine cultivated with crumbler attached: 18 Mar, 1983. NPK applied, rotary cultivated: 11 May. Spring-tine cultivated with crumbler attached, atrazine applied: 16 May. Spring-tine cultivated with crumbler attached, seed sown: 25 May. Chlorfenvinphos applied: 22 June. Hand harvested: 3 Oct.

NOTE: Nematodes were assessed in soil samples taken at three depths to 60 cm in May, July, August and October, roots were sampled in August.

83/W/CS/295

FORAGE DRY MATTER TONNES/HECTARE

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

BENOMYL(82) ALDICARB(82)	0	22	MEAN
0	17.38	18.14	17.76
5	17.78	18.04	17.91
MEAN	17.58	18.09	17.84

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

TABLE	ALDICARB	BENOMYL	ALDICARB BENOMYL
SED	1.060	1.060	1.499

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	2.120	11.9

GRAIN MEAN DM% 31.0

PLOT AREA HARVESTED 0.00049