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82/W/MA/1 Effects of Aldicarb and Benomyl - Forage Maze

Rothamsted Research

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82/W/MA/1

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.

Design: 8 randomised blocks of 4 plots.

Whole plot dimensions: 2.13 x 4.57.

Treatments: All combinations of:-

1. ALDICARB Aldicarb (kg) to seedbed:

0
5

2. BENOMYL Benomyl (kg) to seedbed:

0
22

Basal applications: Manures: (20:10:10) at 750 kg. Weedkillers: Glyphosate at 1.5 kg in 280 l. Atrazine at 1.1 kg in 280 l. Insecticide: Chlorfenvinphos at 2.2 kg as granules.

Seed: Fronica, sown at 105,000 seeds per hectare.

Cultivations, etc.: - Glyphosate applied: 1 Oct, 1981. Ploughed: 25 Feb, 1982. Heavy spring-tine cultivated: 27 Apr. NPK applied: 29 Apr. Aldicarb and benomyl applied: 4 May. Rotary cultivated with crumbler attached, atrazine applied; seed sown: 5 May. Hand hoed, chlorfenvinphos applied: 28 May. Hand harvested: 28 Sept. Previous crops: Maize 1980, s. wheat 1981.

NOTE: Nematodes were assessed in soil samples taken before treatments were applied, in July, August and after harvest and in crop samples in June and July.

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FORAGE DRY MATTER TONNES/HECTARE

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

BENOMYL	0	22	MEAN
ALDICARB			
0	19.18	18.63	18.90
5	21.50	22.08	21.79
MEAN	20.34	20.35	20.35

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

TABLE	ALDICARB	BENOMYL	ALDICARB BENOMYL

SED	0.568	0.568	0.803

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

STRATUM	DF	SE	CV%
BLOCK.WP	21	1.607	7.9
GRAIN MEAN DM%	32.9		
PLOT AREA HARVESTED	0.00049		