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86/R/CS/133 Control of Pathogens - Forage Maize

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86/R/CS/133

CONTROL OF PATHOGENS

Object: To study the effects of a range of chemicals on the incidence of pathogens and yield of continuous maize - Long Hoos VI/VII 6.

Sponsors: A.J. Barnard, D.J. Hooper, D. Hornby, R.T. Plumb.

The 13th year, forage maize.

For previous years see 74-85/R/CS/133.

Design: 3 randomised blocks of 9 plots.

Whole plot dimensions: 2.13 x 18.3.

Treatments:-

CHEMICAL	Chemicals applied annually except as stated:
NONE	None (2 plots per block)
ALDICARB	Aldicarb, 4.5 kg as granules to seedbed
BENOMYL	Benomyl, 11.2 kg as dust to seedbed
DAZOMET	Dazomet, 450 kg as granules in early spring (not applied 1975, 1979, 1981 and 1986)
PERMETH	Permethrin, as foliar spray (in 1979, 1984 and 1985 only)
PHORATE	Phorate, 1.68 kg as granules to seedbed
PIRIMICA	Pirimicarb, 0.14 kg as foliar spray (in 1979, 1984 and 1985 only)
BE+DA+PH	Benomyl + dazomet (not applied 1975, 1979, 1981, and 1986) + phorate, at above rates and times

Basal applications: Manures: Muriate of potash at 520 kg. 'Nitro-Chalk' at 440 kg. Weedkillers: Atrazine at 1.7 kg in 220 l. Clopyralid at 0.1 kg in 220 l on two occasions.

Seed: Fronica, sown at 100,000 seeds per hectare.

Cultivations, etc.: - Muriate of potash applied: 11 Nov, 1985. Ploughed: 29 Nov - 17 Jan, 1986. Seedbed treatments applied and these plots only rotary cultivated: 5 June. N applied, spring-tine cultivated, seed sown: 9 June. Atrazine applied: 13 June. Clopyralid applied: 1 July, 7 July. Harvested by hand: 9 Dec.

86/R/CS/133

FORAGE DRY MATTER TONNES/HECTARE

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

CHEMICAL	
NONE	6.76
ALDICARB	8.18
BENOMYL	7.47
DAZOMET	7.82
PERMETH	7.61
PHORATE	7.42
PIRIMICA	7.05
BE+DA+PH	6.58
MEAN	7.29

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

TABLE	CHEMICAL	
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SED	0.659	MIN REP
	0.571	MAX-MIN

	CHEMICAL	
MAX-MIN	NONE V ANY OF REMAINDER	
MIN-REP	ANY OF THE REMAINDER	

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

STRATUM	DF	SE	CV%
BLOCK.WP	17	0.807	11.1
FORAGE MEAN DM%	21.6		
PLOT AREA HARVESTED	0.00059		