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84/R/CS/133 Control of Pathogens - Maize

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84/R/CS/133

CONTROL OF PATHOGENS

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

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

The 11th year, forage maize.

For previous years see 74-83/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 and 1981)
PERMETH	Permethrin, as foliar spray (0.15 kg in 1979, 0.05 kg in 1984)
PHORATE	Phorate, 1.68 kg as granules to seedbed
PIRIMICA	Pirimicarb, 0.14 kg as foliar spray (1979 & 1984 only)
BE+DA+PH	Benomyl + dazomet (not applied 1975, 1979 & 1981) + phorate, at above rates and times

NOTE: Permethrin and pirimicarb were applied in 340 l in 1979, 220 l in 1984.

Basal applications: Manures: 'Nitro-Chalk' at 660 kg.
Weedkiller: Atrazine at 1.7 l in 220 l.

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

Cultivations, etc.:- Ploughed: 3 Nov, 1983. Spring-tine cultivated dazomet plots only: 21 Mar, 1984. Dazomet applied and these plots only rotary cultivated: 22 Mar. Spring-tine cultivated: 10 May. Remaining seedbed treatments applied, power harrowed, seed sown: 11 May. Weedkiller applied: 14 May. N applied: 18 May. Foliar treatments applied: 17 July. Harvested by hand: 30 Oct.

84/R/CS/133

FORAGE MAIZE DRY MATTER TONNES/HECTARE

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

CHEMICAL	
NONE	11.62
ALDICARB	11.53
BENOMYL	11.26
DAZOMET	12.81
PERMETH	11.71
PHORATE	11.71
PIRIMICA	11.66
BE+DA+PH	15.33
MEAN	12.14

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

TABLE	CHEMICAL	
SED	0.959	MIN REP
	0.831	MAX-MIN

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

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

STRATUM	DF	SE	CV%
BLOCK.WP	17	1.175	9.7
FORAGE MEAN DM%	33.6		
PLOT AREA HARVESTED	0.00059		