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87/R/CS/133 Control of Pathogens - Maize
Rothamsted Experimental Station
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1988

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87/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 14th year, forage maize.

For previous years see 74-86/R/CS/133.

Design: 3 randomised blocks of 9 plots.

Whole plot dimensions: 2.13 x 18.3.

Treatments:-

CHEM RES	Residual effect of chemicals applied annually in previous years (except as stated), none in 1987:
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, 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: Manure: 'Nitro-Chalk' at 550 kg. Weedkiller: Atrazine at 1.7 kg in 220 l.

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

Cultivations, etc.: - Ploughed: 24 Dec, 1986. N applied, spring-tine cultivated twice, seed sown: 6 May, 1987. Rolled, weedkiller applied: 7 May. Harvested by hand: 3 Nov.

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FORAGE DRY MATTER TONNES/HECTARE

***** Tables of means *****

CHEM RES	
NONE	9.04
ALDICARB	9.30
BENOMYL	8.98
DAZOMET	10.06
PERMETH	9.05
PHORATE	9.00
PIRIMICA	8.85
BE+DA+PH	8.61
Mean	9.10

*** Standard errors of differences of means ***

Table	CHEM RES	
s.e.d.	0.763	min.rep
	0.661	max-min

	CHEM RES
max-min	NONE v any of remainder
min.rep	any of remainder

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	17	0.935	10.3
FORAGE MEAN DM%	20.8		
PLOT AREA HARVESTED	0.00065		