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# Yields of the Field Experiments 1985

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## 85/R/CS/133 Control of Pathogens - Maize

### Rothamsted Research

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85/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, K.E. Fletcher, D.J. Hooper, D. Hornby, R.T. Plumb.

The 12th year, forage maize.

For previous years see 74-84/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 and 1985)
PHORATE	Phorate, 1.68 kg as granules to seedbed
PIRIMICA	Pirimicarb, 0.14 kg as foliar spray (1979, 1984 & 1985 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 and 1985.

Basal applications: Manures: N at 150 kg as 'Nitro-Chalk' (27.5% N).  
Weedkiller: Atrazine at 2.8 l in 220 l.

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

Cultivations, etc.:- Ploughed: 27 Dec, 1984. Spring-tine cultivated, dazomet plots only: 20 Mar, 1985. Dazomet treatments applied and these plots only rotary cultivated: 21 Mar. Spring-tine cultivated, remaining seedbed treatments applied, power harrowed, seed sown: 9 May. N applied, weedkiller applied: 17 May. Foliar treatments applied: 31 July. Harvested by hand: 4 Nov.

85/R/CS/133

FORAGE DRY MATTER TONNES/HECTARE

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

CHEMICAL	
NONE	11.41
ALDICARB	12.66
BENOMYL	11.26
DAZOMET	12.81
PERMETH	11.59
PHORATE	10.86
PIRIMICA	10.92
BE+DA+PH	13.29
MEAN	11.85

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

TABLE	CHEMICAL
-----	1.131 MIN REP
	0.979 MAX-MIN

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

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

STRATUM	DF	SE	CV%
BLOCK.WP	17	1.385	11.7
FORAGE MEAN DM%	29.5		
PLOT AREA HARVESTED	0.00059		