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

74/R/CS/133 *Control of Pathogens - Maize*, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 254 - 254 - DOI: <https://doi.org/10.23637/ERADOC-1-119>

74/R/CS/133

CONTROL OF PATHOGENS

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

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

The first year, maize.

Design: 3 randomised blocks of 9 plots split into 3.

Whole plot dimensions: 2.13 x 18.3.

Treatments: All combinations of:-

Whole plots: 1. Chemicals:	CHEMICAL
None (4 plots per block)	None
Aldicarb, 4.5 kg as granules to seedbed	Aldicarb
Benomyl, 11.2 kg as dust to seedbed	Benomyl
Dazomet, 450 kg as granules in early spring	Dazomet
Phorate, 1.65 kg as granules drilled with the seed	Phorate
Benomyl + dazomet + phorate, at above rates and times	Be/Da/Ph
Sub plots: 2. Nitrogen fertiliser (kg N):	N
50	50
100	100
150	150

Basal applications: Manures (0:14:28) at 870 kg. Weedkillers: Atrazine ('Vectal' at 3.4 kg in 340 l).

Seed: Cargill Primeur 170, sown at 123,000 seeds per ha.

Cultivations, etc.:- PK applied, ploughed: 12 Nov, 1973. Spring-tine cultivated: 23 Mar, 1974. Dazomet applied: 28 Mar. Benomyl and aldicarb treatments applied, power harrowed, seed sown: 6 May. N applied: 31 May. Weedkiller applied: 20 May. Previous crops: Winter wheat 1972, fallow 1973.

NOTES: (1) Aphids (*Rhopalosiphum padi*) were assessed on two occasions.
(2) Barley Yellow Dwarf Virus was assessed on one occasion.
(3) Wireworm (*Agriotes* sp.) damage to seedlings was assessed.
(4) Yields were not taken as cobs did not reach maturity in the wet autumn and started to rot.