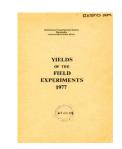
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Yields of the Field Experiments 1977



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Rothamsted Research

Rothamsted Research (1978) 77/R/CS/133 Control of Pathogens - Maize; Yields Of The Field Experiments 1977, pp 171 - 172 - DOI: https://doi.org/10.23637/ERADOC-1-29

77/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, T.D. Williams, J.C. Wilson.

The fourth year, forage maize.

For previous years see 74-76 R/CS/133.

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

Whole plot dimensions: 2.13×18.3 .

Treatments: All combinations of:-

Whole plots

CHEMICAL Chemicals applied annually except where stated:

NONE None (4 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)

PHORATE Phorate, 1.68 kg as granules to seedbed

BE/DA/PH Benomyl + dazomet (not applied 1975) + phorate, at above

rates and times

Sub plots

2. N Nitrogen fertiliser (kg N):

50

100

150

Basal applications: Manures: (0:14:28) at 970 kg. Weedkiller: Atrazine at 1.7 kg in 220 l.

Seed: Caldera 535, sown at 100,000 seeds per ha.

Cultivations, etc.:- Rotary cultivated twice: 26 Nov, 1976. PK applied: 13 Dec. Ploughed: 1-28 Feb, 1977. Dazamet applied and these plots only rotary cultivated: 11 Mar. Power harrowed: 25 Apr. Aldicarb, benomyl and phorate treatments applied, all plots rotary cultivated: 11 May. Seed sown: 18 May. N applied: 24 May. Weedkiller applied: 20 June. Harvested by hand: 8-10 Nov.

NOTES: (1) Germination counts were made in June.

(2) Frit fly (Oscinella frit) damage was assessed.

(3) Nitrogen percentages of forage samples were determined.

77/R/CS/133

FORAGE DRY MATTER TONNES/HECTARE

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

A/PH	BE	HORATE	DAZOMET	BENOMYL	ALDICARB	NONE	CHEMICAL N
9.33 9.07 0.35		7.50 8.43 9.66	8.95 9.28 9.83	7.63 7.83 8.95	7.44 7.97 9.85	7.57 8.78 8.68	50 100 150
9.59		8.53	9.35	8.14	8.42	8.34	MEAN

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

TABLE	N	CHEMICAL	N CHEMICAL	
SED	0.249	0.717 0.567		MIN REP
EXCEPT WHEN CHEMICAL	COMPARING MEANS		VEL(S) OF:	MIN REP

CHEMICAL
MAX REP WITHIN NONE
MAX-MIN NONE V REMAINDER
MIN REP REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	19	0.879	10.2
BLOCK.WP.SP	42	0.914	10 6

MEAN DM% 20.3

SUB PLOT AREA HARVESTED 0.00059