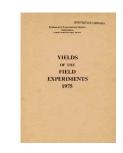
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Yields of the Field Experiments 1975



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Rothamsted Research

Rothamsted Research (1976) 75/ R/M/2 - Maize & Sweet Corn Insect & Virus Control - Grass; Yields Of The Field Experiments 1975, pp 403 - 405 - DOI: https://doi.org/10.23637/ERADOC-1-141

75/R/M/2

MAIZE AND SWEET CORN

INSECT AND VIRUS CONTROL

Object: To study the effects of several insecticides applied at different times on control of insects and on yield of maize and sweet corn - Long Hoos V 7.

Sponsors: J.C. Wilson, K.E. Fletcher, R.T. Plumb.

Design: 3 randomised blocks of 2 plots split into 8.

Whole plot dimensions: 3.20 x 18.3.

Treatments: All combinations of:-Whole plots: 1. Crop:

Grain maize, Cargill Primeur 170

MAIZE SWEETCRN

CROP

Sub plots: 2. Chemicals and times of application:

Sweet corn, Early King

CHEMICAL

None (duplicated, for maize only)
Aldicarb in seedbed (sweet corn only)
Phorate granules in seedbed (duplicated, for maize only)
Phorate granules in seedbed plus second-early spray
of dimethoate (sweet corn only)
Chlorfenvinphos, first-early spray (25 June)

PH/DI/E2 CH/E1 CH/E2

NONE

AL

PH

Chlorfenvinphos, first-early spray (25 June) Chlorfenvinphos, second-early spray (18 July) Dimethoate, first-early spray (25 June) Dimethoate, second-early spray (18 July)

DI/E3

NOTE: Aldicarb applied at 4.48 kg.
Dimethoate applied at 0.67 kg in 340 l.
Phorate applied at 1.68 kg.
Chlorfenvinphos applied at 0.55 kg in 340 l.

Basal applications: Manures: (20:14:14) at 730 kg. Weedkiller: Atrazine ('Vectal' at 3.4 kg in 340 1).

Seed: Grain maize: Cargill Primour sown at 123,000 seeds/ha.

Sweetcorn: Early King sown at 123,000 seeds/ha.

Cultivations: Ploughed: 10 Jan, 1975. NPK applied: 28 Apr. Spring-time cultivated: 12 May. Aldicarb applied, power harrowed: 15 May. Phorate applied and seed sown: 21 May. Weedkiller applied: 23 May. Sweet corn harvested: 8 Sept. Grain maize harvested: 10 Nov. Previous crops: Spring wheat 1973, potatoes 1974.

NOTES: (1) Assessments of the numbers of plants and of shoots attacked by frit fly (Oscinella frit) were made: sweet corn: 9, 29 July, grain maize: 15 July.

(2) Aphid counts and virus assessments were made on 18 June, 10 July and 15 September. 75/R/M/2

CROP MAIZE

*** TABLES OF MEANS ***

GRAIN TONNES/HECTARE

CHEMICAL NONE PH CH/E1 CH/E2 D1/E1 D1/E2 MEAN 2.96 2.90 2.76 2.76 3.26 3.18 2.97

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

TABLE CHEMICAL

SED 0.306 (1)
0.375 (2)
0.433 (3)

(1) NON V PH

(2) NONE OR PH V ANY OF REMAINDER

(3) ANY OF REMAINDER

***** STRATUM STANDARD ERRORS AND COEFFICENTS OF VARIATION *****

 STRATUM
 DF
 SE
 CV%

 BLOCK.WP
 16
 0.531
 17.9

GRAIN MEAN DM% 65.0

PLOT AREA HARVESTED 0.00130

75/R/M/2

CROP SWEETCRN

*** TABLES OF MEANS ***

WEIGHT OF SALEABLE COBS (OVER 10.16 CM) TONNES/HECTARE

CHEMICAL NONE AL PH PH/D1/E2 CH/E1 CH/E2 D1/E1 D1/E2 MEAN 1.26 1.97 3.11 2.11 1.29 1.90 0.87 1.46 1.75

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

TABLE CHEMICAL
SED 0.364

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

STRATUM DF SE CV%

BLOCK.WP 14 0.446 25.5

NUMBER OF SALEABLE COBS (OVER 10.16 CM) TONNES/HECTARE

CHEMICAL NONE AL PH PH/D1/E2 CH/E1 CH/E2 D1/E1 D1/E2 MEAN 9.4 14.8 20.0 15.5 10.8 13.9 7.0 11.9 12.9

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

TABLE CHEMICAL
SED 2.81

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

STRATUM DF SE CV%

BLOCK.WP 14 3.44 26.7

PLOT AREA HARVESTED 0.00149