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Yields of the Field Experiments 1983

Full Table of Content

83/R/RA/4 Control of Pests and Diseases - W. Oilseed Rape

Rothamsted Research

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83/R/RA/4

WINTER OILSEED RAPE

CONTROL OF PESTS AND DISEASES

Object: To study the effects of carbofuran, cypermethrin, benomyl and triazophos on the incidence of pests and diseases and on the yield of w. oilseed rape - Bones Close.

Sponsors: R.J. Tuppen (MAFF), G.J.W. Dean, I.H. Williams, C.J. Rawlinson.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 4.0 x 20.0.

Treatments: All combinations of:-

1. INSCTCDE — Insecticides:

NONE	None
CARBOFUR	Carbofuran at 2.5 kg as granules on 3 Sept, 1982
CYPERMET	Cypermethrin at 0.035 l in 500 l on 3 June, 1983

2. FUNG INS — Fungicide and additional insecticide:

NONE	None
BEN+TRI	Benomyl at 0.50 kg on 15 Nov, 1982, and triazophos on 8 June, 1983

NOTE: 'Actipron', a wetting agent, was applied at 2.5 l with the benomyl.

Basal applications: Manures: (5:14:30) at 450 kg. 'Nitro-Chalk' at 500 kg followed by 450 kg. Weedkillers: Paraquat at 0.70 kg ion in 250 l. Diquat at 0.60 kg ion applied with 'Agral', a wetting agent, at 0.5 l in 500 l. Propyzamide and 3,6 - dichloropicolinic acid (as 'Matri-Kerb' at 1.63 kg) in 250 l.

Seed: Jet Neuf, dressed thiram and thiabendazole, sown at 7.8 kg.

Cultivations, etc.:- Paraquat applied: 23 Aug, 1982. Disced: 29 Aug. NPK applied, seed sown: 31 Aug. 'Matri-Kerb' applied: 9 Nov. First N applied: 23 Feb, 1983. Second N applied: 28 Mar. Diquat applied: 22 July. Combine harvested: 28 July. Previous crops: W. wheat 1981, w. wheat and w. barley 1982.

NOTE: Light leaf spot was assessed in early spring, May and June.

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83/R/RA/4

GRAIN TONNES/HECTARE

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

FUNG INS	NONE	BEN+TRI	MEAN
INSCTCDE			
NONE	3.17	3.39	3.28
CARBOFUR	3.11	3.53	3.32
CYPERMET	2.91	3.51	3.21
MEAN	3.06	3.47	3.27

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

TABLE	INSCTCDE	FUNG INS	INSCTCDE FUNG INS
SED	0.219	0.179	0.310

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.439	13.4

GRAIN MEAN DM% 85.6

PLOT AREA HARVESTED 0.00640

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