ROTHAMSTED RESEARCH

Yields of the Field Experiments 1979

Full Table of Content

79/R/WW/9 Parasites and Predators of Insect Pests - W. Wheat

Rothamsted Research

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79/R/WW/9

WINTER WHEAT

PARASITES AND PREDATORS OF INSECT PESTS

Object: To study the effects of two insecticides, applied separately and together, on the parasites and predators and on the yield of winter wheat - Stackyard.

Sponsors: R. Bardner, J.R. Lofty, K.E. Fletcher.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 10.7 x 21.4.

Treatments: All combinations of:-

1. INS E — Insecticide applied early:

NONE	None
ALDICARB	Aldicarb at 5 kg as 10% granules to the seedbed on 17 Oct, 1978

2. INS L — Insecticide applied late:

NONE	None
CHLORPYR	Chlorpyrifos at 1.17 kg as a foliar spray in 550 l on 15 May, 1979

Basal applications: Manures: (10:23:23) at 250 kg, combine drilled. 'Nitro-Chalk' at 500 kg. Autumn weedkiller: Chlortoluron at 5.6 kg in 220 l. Spring weedkiller: Mecoprop at 2.5 kg in 220 l.

Seed: Flanders, sown at 190 kg.

Cultivations, etc.:- Ploughed: 12 Oct, 1978. Disc harrowed: 16 Oct. Rotary harrowed, seed sown: 18 Oct. Autumn weedkiller applied: 20 Oct. N applied: 27 Apr, 1979. Spring weedkiller applied: 15 May. Combine harvested: 29 Aug. Previous cropping: Fallow 1977, wheat 1978.

NOTE: Incidence of ground beetles was assessed weekly, of wheat blossom midge larvae and pupae in soil in November and December and all arthropods in soil from April until harvest. Incidence of shoot borers was assessed in April, adult wheat blossom midge and other flying insects in June and thrips in July.

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79/R/WW/9

GRAIN TONNES/HECTARE

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

INS L / INS E	NONE	CHLORPYR	MEAN
NONE	6.52	6.77	6.65
ALDICARB	6.60	7.28	6.94
MEAN	6.56	7.02	6.79

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

TABLE	INS E	INS L	INS E INS L
SED	0.128	0.128	0.181

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.221	3.3

GRAIN MEAN DM% 86.3

PLOT AREA HARVESTED 0.00607

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