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

Rothamsted Research

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78/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: 12.8 x 18.3.

Treatments:

INSCTCDE	Insecticides:
NONE	None
FON	Fonofos at 0.5 kg as 10% granules to the seedbed on 28 Oct, 1977
CHL	Chlorpyrifos at 1.17 kg as a foliar spray in 1100 l on 17 Apr, 1978 and 5 June
FON+CHL	Fonofos + chlorpyrifos at above rates and times

Basal applications: Manures: (10:24:24) at 250 kg, combine drilled. 'Nitro-Chalk 26' at 430 kg. Weedkillers: Isoproturon at 2.2 kg plus mecoprop at 2.5 kg in 220 l.

Seed: Flanders, sown at 190 kg.

Cultivations, etc.: - Ploughed: 24 Oct, 1977. Rotary harrowed: 26 Oct. Rotary harrowed after applying fonofos: 28 Oct. Seed sown: 1 Nov. N applied: 8 May, 1978. Weedkillers applied: 11 May. Combine harvested: 12 Sept. Previous crops: Fallow 1976, wheat 1977.

NOTE: Soil samples for pests and predators were taken six times during the season. Plant samples for stem borers were taken twice. Pitfall traps, emergence traps and sticky traps were examined weekly. Aphids and thrips were assessed during the season.

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GRAIN TONNES/HECTARE

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

INSCDCDE	NONE	FON	CHL	FON+CHL	MEAN
	4.88	5.14	5.45	5.63	5.27

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

TABLE	INSCDCDE
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SED	0.389

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.476	9.0

GRAIN MEAN DM% 85.0

PLOT AREA HARVESTED 0.00520