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76/R/B/9 Insecticides and Beneficial Insects - Barley

Rothamsted Research

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76/E/E/9

SPRING BARLEY

INSECTICIDES AND BENEFICIAL INSECTS

Object: To study the effects of different rates of a selective and a non-selective aphicide on pests, beneficial insects and yield of barley-Whittlocks.

Sponsor: J.H. Stevenson.

Design: 5 randomised blocks of 7 plots.

Whole plot dimensions: 18.7 x 18.3.

Treatments:

INS RATE Insecticides and rates:-

NONE	None
DEM 1	Demeton-s-methyl (non-selective) at 25.7 g
DEM 3	Demeton-s-methyl (non-selective) at 77.1 g
DEM 9	Demeton-s-methyl (non-selective) at 231 g
PIR 1	Pirimicarb (selective) at 15.6 g
PIR 3	Pirimicarb (selective) at 46.7 g
PIR 9	Pirimicarb (selective) at 140 g

NOTE: Treatments were applied in 450 l on 25 June 1976.

Basal applications: Manures: (20:14:14) at 380 kg combine drilled. Weedkillers: Dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 220 l).

Seed: Julia, dressed ethirimol, sown at 160 kg.

Cultivations, etc.:- Ploughed: 6 Nov, 1975. Spring-tine cultivated: 1 Mar, 1976. Seed sown: 10 Mar. Weedkiller applied: 7 May. Combine harvested: 23 July. Previous crops: Beans and oats 1974, winter wheat 1975.

NOTE: Aphid counts were made on plants. Other insects were sampled by sweep nets, water traps and pitfall traps.

GRAIN TONNES/HECTARE

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

INS RATE	NONE	DEM 1	DEM 3	DEM 9	PIR 1	PIR 3	PIR 9	MEAN
	3.96	3.96	3.92	4.07	4.09	4.00	4.02	4.00

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

TABLE	INS RATE
SED	0.118

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

STRATUM	DF	SE	CV%
BLOCK.WP	24	0.186	4.7

GRAIN MEAN DM% 86.1 PLOT AREA HARVESTED 0.00195