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Yields of the Field Experiments 1982

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Rothamsted Research

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82/R/WS/1

SPRING WHEAT

INSECTICIDES AND ALARM PHEROMONE

Object: To study the effects of an aphid alarm pheromone on the effectiveness of a contact aphicide - Long Hoos III 8.

Sponsors: D.C. Griffiths, J.A. Pickett.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.41 x 4.57.

Treatments:

TREATMENT	Aphicide, pheromone treatments and sprayers:
NONE	None
PHEROMON	Aphid alarm pheromone
PERMET C	Permethrin at 0.10 kg, applied by conventional sprayer
PH+PER C	Aphid alarm pheromone plus permethrin applied by conventional sprayer at 0.10 kg
PIRIM C	Pirimicarb at 0.15 kg applied by conventional sprayer
PIRIM E	Pirimicarb at 0.15 kg applied by electrostatic sprayer

NOTE: Treatments were applied on 30 June; insecticides in 60 l of water by electrostatic sprayer, in 460 l of water by conventional sprayer; pheromone at 5 g, in a solvent, by electrostatic sprayer.

Basal applications: Manures: 'Nitro-Chalk' at 450 kg. Weedkillers: Dicamba with mecoprop and MCPA, (as 'Banlene Plus' at 4.9 l) applied with the tridemorph in 340 l. Fungicides: Tridemorph at 0.53 kg, prochloraz at 0.39 kg in 340 l.

Seed: Timmo, sown at 180 kg.

Cultivations, etc.:- Ploughed: 29 Jan, 1982. Zig-zag harrowed, power harrowed, seed sown and N applied: 13 Apr. Weedkillers with tridemorph applied: 18 May. Prochloraz applied: 30 June. Combine harvested: 2 Sept. Previous crops: S. barley 1980, s. beans 1981.

NOTE: Aphids were counted five days after spray applications. Plants were analysed for insecticide residues after spraying.

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82/R/WS/1

GRAIN TONNES/HECTARE

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

TREATMNT	NONE	PHEROMON	PERMET C	PH+PER C	PIRIM C	PIRIM E	MEAN
	5.22	4.94	5.16	5.27	4.94	5.04	5.10

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

TABLE	TREATMNT
SED	0.135

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.191	3.8

GRAIN MEAN DM% 81.9

PLOT AREA HARVESTED 0.00075

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