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# Yields of the Field Experiments 1983

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## 83/R/WW/8 Aphid Alarm Pheromone and Bydv - W. Wheat

### Rothamsted Research

Rothamsted Research (1984) *83/R/WW/8 Aphid Alarm Pheromone and Bydv - W. Wheat* ; Yields Of The Field Experiments 1983, pp 236 - 237 - DOI: <https://doi.org/10.23637/ERADOC-1-44>

83/R/WW/8

WINTER WHEAT

APHID ALARM PHEROMONE AND BYDV

Object: To study the effects of insecticides and an alarm pheromone on aphids, barley yellow dwarf virus (BYDV) and the yield of w. wheat - White Horse II.

Sponsors: D.C. Griffiths, R.T. Plumb, J.A. Pickett.

Design: 4 blocks of 5 plots.

Whole plot dimensions: 6.0 x 12.0.

Treatments:

TREATMNT	Application of insecticides or alarm pheromone:
NONE	None
PHORA SD	Phorate as a seed dressing at 2 g per kg of seed
PERMET A	Permethrin at 0.08 kg
PHER ADD	'ADD 11' at 4 kg
PHER MAN	'Mana' at 4 kg

NOTES: (1) Permethrin was applied by hydraulic sprayer in 450 l on 15 Nov, 1982.  
(2) 'ADD 11' is a non-systemic behaviour controlling chemical.  
(3) 'Mana' is a systemic behaviour controlling chemical.  
(4) Both 'ADD 11' and 'Mana' were applied by electrostatic sprayer in 12 l on 12 Oct, 1982, 27 Oct and 15 Nov.

Basal applications: Manures: 'Nitro-Chalk' at 630 kg. Weedkillers: Methabenzthiazuron at 3.2 kg in 250 l. Mecoprop (as 'Mecoprop 40' at 4.2 l) in 250 l. Fungicide: Triadimefon at 0.12 kg in 250 l.

Seed: Aquila, sown at 180 kg.

Cultivations, etc.: - Deep-tine cultivated: 7 Sept, 1982. Discd twice: 10 Sept. Heavy spring-tine cultivated: 13 Sept. Rotary harrowed, seed sown: 14 Sept. Methabenzthiazuron applied: 24 Sept. Mecoprop applied: 17 Nov. N applied: 14 Apr, 1983. Fungicide applied: 17 June. Combine harvested: 14 Aug. Previous crops: S. barley 1981, w. beans 1982.

NOTE: Counts were made of barley yellow dwarf virus.

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GRAIN TONNES/HECTARE

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

TREATMNT	NONE	PHORA SD	PERMET A	PHER ADD	PHER MAN	MEAN
	9.16	9.42	8.17	9.80	8.40	8.99

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

TABLE	TREATMNT
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SED	0.841

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	1.189	13.2

GRAIN MEAN DM% 86.4

PLOT AREA HARVESTED 0.00259