

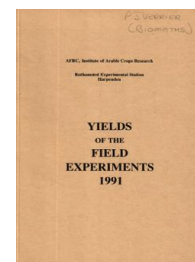
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## Yields of the Field Experiments 1991

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### 91/R/BS/5 Summer Insecticides and Polyphagous Predators - S. Barley

#### Rothamsted Research

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91/R/BS/5

SPRING BARLEY

SUMMER INSECTICIDES AND POLYPHAGOUS PREDATORS

**Object:** To study the effects of summer applied insecticides on non-target polyphagous predators - Appletree.

**Sponsors:** N. Carter, K.F.A. Walters (M.A.F.F)

**Design:** 3 randomised blocks of 4 plots.

**Whole plot dimensions:** 8.0 x 15.0.

**Treatments:**

INSCTCDE	Insecticides:
NONE	None
ALPHAC 1	Alpha-cypermethrin at 7.5 g in 200 l on 11 July, 1991
ALPHAC 2	" " 15.0 g in 200 l on 11 July
DIMETHOA	Dimethoate at 0.34 kg in 520 l on 11 July

**NOTE:** Polythene barriers were erected around the plots from May until harvest to prevent movement of ground insects.

**Basal applications:** Manures: Magnesian limestone at 5.0 t. (0:16:36) at 980 kg. 'Nitram' at 360 kg. Weedkillers: Glyphosate at 0.27 kg in 200 l. Mecoprop at 1.2 kg with bromoxynil at 0.19 kg and ioxynil at 0.19 kg in 200 l. Fungicide: Tridemorph at 0.52 kg in 200 l.

**Seed:** Alexis, sown at 120 kg.

**Cultivations, etc.:-** Magnesian limestone applied: 13 Aug, 1990. PK applied: 22 Aug. Glyphosate applied: 12 Sept. Ploughed: 18 Oct. N applied: 12 Apr, 1991. Spring-tine cultivated: 15 Apr. Rotary harrowed, seed sown: 16 Apr. Mecoprop, bromoxynil and ioxynil applied: 2 June. Fungicide applied: 4 June. Combine harvested: 29 Aug. Previous crops: W. oilseed rape 1989, w. wheat 1990.

**NOTES:** (1) Aphids were sampled during July.  
(2) Polyphagous predators were monitored, using pitfall traps, from early July to August.  
(3) Components of yield were measured.

91/R/BS/5

**GRAIN TONNES/HECTARE**

\*\*\*\*\* Tables of means \*\*\*\*\*

<b>INSCTCDE</b>	
NONE	5.89
ALPHAC 1	6.25
ALPHAC 2	5.72
DIMETHOA	5.96
Mean	5.96

\*\*\* Standard errors of differences of means \*\*\*

<b>INSCTCDE</b>
0.385

\*\*\*\*\* Stratum standard errors and coefficients of variation \*\*\*\*\*

Stratum	d.f.	s.e.	cv%
BLOCK.WP	6	0.471	7.9
GRAIN MEAN DM%	86.6		
PLOT AREA HARVESTED	0.00345		