

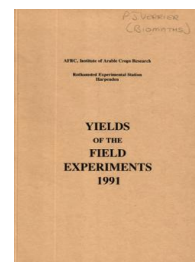
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91/R/BS/5 Summer Insecticides and Polyphagous Predators - S. Barley

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:

INSECTCDE	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 *****

INSCTCDE	
NONE	5.89
ALPHAC 1	6.25
ALPHAC 2	5.72
DIMETHOA	5.96
Mean	5.96

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

INSCTCDE
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		