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Yields of the Field Experiments 1983



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Rothamsted Research

Rothamsted Research (1984) 83/R/BE/18 Permethrin and Alarm Pheromone - S. Beans; Yields Of The Field Experiments 1983, pp 304 - 305 - DOI: https://doi.org/10.23637/ERADOC-1-44

83/R/BE/18

SPRING BEANS

PERMETHRIN AND ALARM PHEROMONE

Object: To study the effects of aphid alarm pheromone on the activity of permethrin against bean aphids and on the yield of spring beans - Long Hoos VI/VII 2.

Sponsors: D.C. Griffiths, J.A. Pickett, G.R. Cayley.

Design: 2 randomised blocks of 14 plots.

Whole plot dimensions: 2.4 x 4.5.

Treatments: All combinations of:-

1. PERME	TH	Permethrin (g):			
0		None	(duplicated)		
3					
10					
30					
90					
270					

2. PHEROMON

Pheromone:

NONE

None

BETA FAR

(E), beta farnesene at 0.004 1

NOTE: Treatments were applied by electrostatic sprayer in 4.2 1 hexane on 4 July.

Basal applications: Manures: Chalk at 2.9 t. Weedkillers: Trietazine at 1.1 kg with simazine at 0.16 kg in 220 l. Insecticide: Permethrin at 0.15 kg in 220 l.

Seed: Minden, sown at 280 kg.

Cultivations, etc.:- Chalk applied: 28 Sept, 1982. Ploughed: 4 Nov. Spring-tine cultivated, seed sown: 10 Mar, 1983. Weedkillers applied: 17 Mar. Insecticide applied: 24 May. Combine harvested: 11 Aug. Previous crops: Potatoes 1981, fallow 1982.

NOTE: Aphid infestations were measured in early July.

83/R/BE/18

GRAIN TONNES/HECTARE

**** TABLES OF MEANS ****

PERMETH	0	3	10	30	90	270	MEAN
PHEROMON NONE BETA FAR	1.73 1.59	1.51 1.98	1.76 1.99	1.92 1.87	1.87 1.89	1.99 1.91	1.79 1.83
MEAN	1.66	1.74	1.88	1.90	1.88	1.95	1.81

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

TABLE	PERMETH	PHEROMON	PERMETH PHEROMON	
SED	0.183			MIN REP
	0.159	0.098	0.224	MAX -MIN MAX REP

PERMETH

MAX REP 0

MAX-MIN O V ANY OF REMAINDER MIN REP ANY OF REMAINDER

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

STRATUM DF SE CV% 0.259 15 14.3 BLOCK. WP

GRAIN MEAN DM% 86.1

PLOT AREA HARVESTED 0.00065