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# Yields of the Field Experiments 1981

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## 81/R/BE/15 Alarm Pheromone Study - S. Beans

### Rothamsted Research

Rothamsted Research (1982) *81/R/BE/15 Alarm Pheromone Study - S. Beans* ; Yields Of The Field Experiments 1981, pp 317 - 318 - DOI: <https://doi.org/10.23637/ERADOC-1-35>

81/R/BE/15

SPRING BEANS

ALARM PHEROMONE STUDY

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: 2.03 x 4.57.

Treatments:

TREATMNT	Aphicide & pheromone treatments applied on 22 June, 1981:
NONE	None
PHEROMON	Aphid alarm pheromone
PERMETH	Permethrin at 0.10 kg
PHER+PER	Aphid alarm pheromone and permethrin at 0.10 kg
DEMETON	Demeton-s-methyl at 0.25 kg
PIRIMICA	Pirimicarb at 0.19 kg

NOTE: Pheromone was applied at 300 mg per ha in a stream of nitrogen gas. All insecticides were applied in 340 l.

Basal applications: Manures: Chalk at 2.9 t. Weedkillers: Glyphosate at 1.5 l in 340 l. Simazine at 0.83 l in 340 l.

Seed: Minden, sown at 280 kg.

Cultivations, etc.: - Glyphosate applied: 2 Oct, 1980. Chalk applied: 4 Dec. Ploughed: 12 Dec. Power harrowed, seed sown: 19 Feb, 1981. Simazine applied: 7 Apr. Combine harvested: 9 Sept. Previous crops: W. wheat 1979, s. barley 1980.

NOTE: Plants were sampled for aphids in June, and aphid counts were made in July.

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GRAIN TONNES/HECTARE

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

TREATMNT	NONE	PHEROMON	PERMETH	PHER+PER	DEMETON	PIRIMICA	MEAN
	2.16	2.11	2.08	2.09	2.15	1.97	2.09

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

TABLE	TREATMNT
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SED	0.154

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.218	10.4

GRAIN MEAN DM% 87.6

PLOT AREA HARVESTED 0.00046