

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1981

[Full Table of Content](#)



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.

81/R/BE/15

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
-----	-----
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