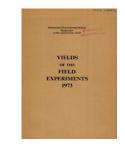
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# Yields of the Field Experiments 1973



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# 73/R/BE/12 - Control of Weevils - Beans

### **Rothamsted Research**

Rothamsted Research (1974) 73/R/BE/12 - Control of Weevils - Beans; Yields Of The Field Experiments 1973, pp 366 - 367 - DOI: https://doi.org/10.23637/ERADOC-1-98

## 73/R/BE/12

#### SPRING BEANS

#### CONTROL OF WEEVILS

Object: To study the effect of some insecticides on the incidence of adult weevils and on yield of field beans - Pastures.

Sponsors: A.J. Cockbain, P. Etheridge.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 16.5 x 18.3. Area harvested: 0.00293.

Treatments: Insecticides (kg):

INSCICDE

None

BHC

None Gamma BHC, 0.5 as spray Fenitrothion, 0.75 as spray Fenitro Malathion, 1.0 as spray Malathio Methomyl, 1.0 as spray Methomyl Phorate, 1.0 as granules

Sprays were applied on 31 May, in 670 1, and were repeated on 23 June, in 450 1. Granules were applied on 1 June, repeated on 25 June.

Basal applications: Manures: (0:20:20) at 1300 kg, Epsom salts at 900 kg in autumn. (0:14:28) at 400 kg, placement drilled. Weedkillers: Paraquat at 0.42 kg ion in 220 1, simazine at 1.1 kg in 220 1.

Seed: Minor, sown at 220 kg.

Cultivations, etc.:- Autumn PK and Epsom salts applied: 20 Sept, 1972. Ploughed: 5 Oct. Paraquat applied: 28 Nov. Seed sown: 10 Mar, 1973. Simazine applied: 13 Mar. Combine harvested: 5 Sept. Previous crops: Barley 1971, barley 1972.

NOTE: Adult weevil populations were assessed 1, 2, 4, 8, 12, 16 and 20 days after first spray treatment and 2, 10, 20 days after second treatment. Black aphid populations were assessed on 2 July and green aphid on 4 July.

Standard error per plot. Grain, tonnes/hectare: 0.360 or 8.6% (10 d.f.)

# 73/R/BE/12

## TABLE OF MEANS

GRAIN: TONNES/HECTARE

#### INSCICDE

None	BHC	Fenitro	Malathio	Methomyl	Phorate	Mean
3.36	4.35	4.62	4.16	4.28	4.29	4.18

STANDARD ERROR OF DIFFERENCES

INSCICDE

0.294

Mean D.M. % 83.4