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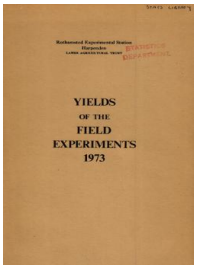
Yields of the Field Experiments 1973

Full Table of Content



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**

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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):

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

Sprays were applied on 31 May, in 670 l, and were repeated on 23 June, in 450 l. 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 l, simazine at 1.1 kg in 220 l.

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.)

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73/R/BE/12

TABLE OF MEANS

GRAIN: TONNES/HECTARE

INSCTCDE

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

INSCTCDE

0.294

Mean D.M. % 83.4

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