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 readible, or you suspect there are some problems, please let us know and we will correct that.



# Yields of the Field Experiments 1962



Full Table of Content

# 62/R/DC/3 and 62/W/DC/3 Spring Beans - Control of Aphids (Insecticides)

#### **Rothamsted Research**

Rothamsted Research (1963) 62/R/DC/3 and 62/W/DC/3 Spring Beans - Control of Aphids (Insecticides); Yields Of The Field Experiments 1962, pp 132 - 133 - DOI: https://doi.org/10.23637/ERADOC-1-164

62/Dc/3.1

#### SPRING BEANS

Control of aphias by insecticides - Rothamsted (R) Great Knott II and Woburn (W) Butt Close 1962.

Design: Great Knott II (R): 4 randomised blocks of 10 plots each. Butt Close (W): 4 randomised blocks of 8 plots each.

Area of each plot: 0.0216 acres. Area harvested: 0.0090 acres.

Treatments:

No insecticide (0);

Menazon (1b active ingredient per acre):-

As a seed dressing: 1; 3 (S<sub>1</sub>; S<sub>2</sub>)

Combine drilled: 1\*; 3 (C<sub>1</sub>; C<sub>3</sub>)

Broadcast on young foliage: 1; 3\* (B<sub>1</sub>; B<sub>2</sub>)

In liquid form as emulsifiable spray: 1 (in 60 gallons) (L). "Disyston" granules broadcast on young foliage: 1 lb active

ingredient per acre (DB).

Demeton-methyl: 6 fluid oz active ingredient in 60 gallons per acre (ML).

On Butt Close (W) C, and B, were omitted.

Basal dressing: 34 cwt compound fertiliser (14% P205, 28% K20) per acre placement drilled.

Cultivations, etc.:

Great Knott II (R): Sprayed with dalapon at 8 lb in 40 gallons per acre: Sept 8, 1961 and again at 4 lb in 40 gallons per acre: Sept 27. Ploughed: Oct 25. Seed drilled at 200 lb per acre: Mar 15, 1962. Sprayed with simazine at 1 lb in 40 gallons per acre: Apr 11. Menazon and "Disyston" granules broadcast: June 5. Demeton-methyl and menazon sprays applied: July 4. Combine harvested: Sept 21. Variety: Tick 30B. Previous crops: Winter wheat and potatoes 1960; barley 1961.

Butt Close (W): Ploughed twice: Aug 25 and Oct 27, 1961. drilled at 200 lb per acre: Mar 17, 1962. Sprayed with simazine at 1 lb in 40 gallons per acre: Apr 12. Menazon and "Disyston" granules broadcast: June 6. Demeton-methyl and menazon sprays applied: July 12. Combine harvested: Sept 20. Variety: Tick 30B. Previous crops: Barley 1960 and 1961.

Note: Counts of virus infected plants and estimates of numbers of aphids were made.

Standard errors per plot, Grain (at 85% dry matter): Great Knott II (R) 2.95 cwt per acre or 10.7% (27 d.f.) Butt Close (W): 3.48 cwt per acre or 22.3% (21 d.f.)

62/Dc/3.2

### Summary of Results

## Grain (at 85% dry matter): cwt per acre

Treatments

0	S <sub>1</sub>	s <sub>3</sub>	C <sub>1</sub>	<sup>C</sup> 3	B <sub>1</sub>	B <sub>3</sub>	L	ML	DB	Mean	
Great Knott II (R)											
24.4	30.2	27.2	28.6	26.6 (±1.	26.4 48)	27.6	27.0	29.3	28.2	27.5	
Butt Close (W)											
16.9	14.2	16.5		14.3 (±1.			15.3	15.5	18.8	15.6	

Mean dry matter % as harvested: Great Knott II (R): 76.3 Butt Close (W): 76.3

#### Treatments