

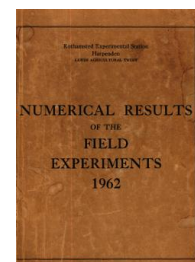
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62/R/DC/3 and 62/W/DC/3 Spring Beans - Control of Aphids (Insecticides)

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:

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62/Dc/3.1

SPRING BEANS

Control of aphids 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 (lb active ingredient per acre):-

As a seed dressing: 1; 3 (S₁; S₃)

Combine drilled: 1*; 3 (C₁; C₃)*

Broadcast on young foliage: 1; 3* (B₁; B₃)

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) C₁ and B₃ were omitted.

Basal dressing: $\frac{3}{4}$ cwt compound fertiliser (14% P₂O₅, 28% K₂O) 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. Seed 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										Mean
O	S ₁	S ₃	C ₁	C ₃	B ₁	B ₃	L	ML	DB	
<u>Great Knott II (R)</u>										
24.4	30.2	27.2	28.6	26.6	26.4	27.6	27.0	29.3	28.2	27.5
				(±1.48)						
<u>Butt Close (W)</u>										
16.9	14.2	16.5		14.3	13.1		15.3	15.5	18.8	15.6
				(±1.74)						

Mean dry matter % as harvested:

Great Knott II (R): 76.3

Butt Close (W): 76.3

Treatments

O = No insecticide

S₁ S₃ = Menazon (lb active ingredient per acre), as a seed dressing 1; 3

C₁ C₃ = " " " " " " combine drilled 1; 3

B₁ B₃ = " " " " " " broadcast on young foliage 1; 3

L = Menazon " " " " In liquid form as emulsifiable spray 1 (in 60 gallons)

DB = "Disyston" granules broadcast on young foliage: 1 lb active ingredient per acre

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