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Yields of the Field Experiments 1963

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63/R/RBE201/DC/2 Spring Beans - Systemic Insecticides

Rothamsted Research

Rothamsted Research (1964) *63/R/RBE201/DC/2 Spring Beans - Systemic Insecticides* ; Yields Of The Field Experiments 1963, pp 167 - 168 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

63/Dc/2.1

SPRING BEANS

(RBe 201)

Control of virus by systemic insecticides - Claycroft 1963.

Design: 4 randomised blocks of 8 plots each.

Area of each plot: 0.0217 acres. Area harvested: 0.0090 acres.

Treatments. All combinations of:-

Systemic insecticides: None (0), 1 lb (S1), 3 lb per acre menazon as seed dressing (S3), 1 lb per acre disulfoton broadcast on young foliage in granular form (B).

Demeton-methyl systemic insecticide spray: None (0), 6 fluid oz in 80 gallons per acre (M).

Basal dressing: 3.25 cwt per acre compound fertiliser (14% P₂O₅, 28% K₂O) placement drilled.

Cultivations, etc.: Ploughed: Nov 27 - Dec 3, 1962. Seed drilled at 200 lb per acre: Apr 9, 1963. Sprayed with simazine at 1 lb in 40 gallons per acre: Apr 19. Treatment B applied: June 11. Treatment M applied: June 27. Combine harvested: Sept 30. Variety: Herz Freya. Previous crops: Spring wheat 1961 and 1962.

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

Standard error per plot.

Grain (at 85% dry matter): 2.03 cwt per acre or 6.4% (21 d.f.)

63/Dc/2.2

Summary of Results

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

Demeton-methyl spray	Systemic insecticide				Mean
	0	S1	S3	B	
	(±1.01)				(±0.50)
0	25.0	30.6	33.0	28.8	29.4
M	33.7	34.7	34.5	34.3	34.3
Mean (±0.71)	29.4	32.7	33.7	31.6	31.8

Mean dry matter % as harvested: 72.4

Systemic insecticide

0 = None

S1 = 1 lb per acre menazon as seed dressing

S3 = 3 lb per acre menazon as seed dressing

B = 1 lb per acre disulfoton broadcast on young foliage in granular form

Demeton-methyl spray

0 = None

M = 6 fluid oz in 80 gallons per acre