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56/R/CD/2 Spring Beans - Control of Weeds (Spraying and Cultivations)

Rothamsted Research

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56/Ca/2.1

SPRING BEANS

Control of weeds by spraying and cultivations - Great Field 1 1956.

Design: 4 randomized blocks of 7 plots each, 2 blocks being sprayed and 2 unsprayed.

Area of each plot: 0.0194 acres. Area harvested: 0.0139 acres.

Treatments: All combinations of:-

Spraying (on blocks): None; DNEP 5 pints in 80 gallons per acre.

Treatment cultivations:

	<u>Additional cultivations</u>	
With inter-row cultivations	None	(1)
	Harrowed once	(2)
	Harrowed three times	(3)
	Mechanical weeder once	(4)
	Mechanical weeder three times	(5)
Without inter-row cultivations	Harrowed as required	(6)
	Mechanical weeder as required	(7)

Basal dressing: 6 cwt compound granular fertilizer (10% P_2O_5 , 20% K_2O) per acre.

Cultivations, etc.: Ploughed: Nov 15, 1955. Basal fertilizer applied: Mar 13, 1956. Seed drilled at 200 lb per acre: Mar 14. Appropriate blocks sprayed with DNEP, 5 pints in 80 gallons per acre: May 7. Inter-row cultivated: Treatments (2), (3), (4), (5) - May 23, (1) - June 6. Combine harvested: Oct 12. Variety: Spring Tick. Previous crop: Barley.

Additional treatment cultivations:

(2) and (4): Apr 27.

(3), (5) and (6): Apr 27, May 4, May 9.

(7): Apr 27, May 4 (twice), May 9.

Standard error per plot:

Grain (at 85% dry matter): 1.52 cwt per acre or 7.1% (12 d.f.)

56/Ca/2.2

Summary of Results

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

Spray	Treatment cultivations							Mean
	1	2	3	4	5	6	7	
	(± 1.07)*							
None	21.3	20.6	18.8	17.9	20.7	21.1	19.1	19.9
DNBP	20.6	23.2	23.2	25.0	22.7	22.5	21.7	22.7
Mean (± 0.76)	21.0	21.9	21.0	21.4	21.7	21.8	20.4	21.3
Diff. (± 1.52) ⁺	-0.7	+2.6	+4.4	+7.1	+2.0	+1.4	+2.6	+2.8

*for use in horizontal comparisons only.

⁺for use in the comparison of two differences only.

Mean dry matter % as harvested: 73.9

Treatment cultivations:

(1) None	With inter-row cultivations					
(2) Harrowed once	"	"	"	"	"	"
(3) Harrowed three times	"	"	"	"	"	"
(4) Mechanical weeder once	"	"	"	"	"	"
(5) Mechanical weeder three times	"	"	"	"	"	"
(6) Harrowed as required	Without inter-row cultivations					
(7) Mechanical weeder as required	"	"	"	"	"	"