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55/R/CC/2 Spring Beans - Control of Weeds (Spraying and Cultivations)

Rothamsted Research

Rothamsted Research (1956) *55/R/CC/2 Spring Beans - Control of Weeds (Spraying and Cultivations)* ; Yields Of The Field Experiments 1955, pp 89 - 90 - DOI:
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55/Cc/2.1

SPRING BEANS

Control of weeds by spraying and cultivation - Fosters 1955.

Design: 4 randomized blocks of 5 plots each, 2 blocks being sprayed and 2 unsprayed.

Area of each plot: 0.0202 acre. Area harvested: 0.0126 acre.

Treatments: All combinations of:-

Spraying (on blocks): None; DNEP high volume

Additional cultivations: None (0)

Harrowed once (1)

Harrowed three times (2)

Mechanical weeder once (3)

Mechanical weeder three times (4)

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

Basal inter-row cultivation: One early horse hoeing.

Cultivations, etc.: Ploughed: Oct 22, 1954. Basal fertilizer applied, seed drilled at 195 lb per acre: Mar 19, 1955. Horse hoed all plots: May 11. Combine harvested: Aug 27. Variety: Spring Tick. Previous crop: Barley.

Treatment cultivations:

(1) Harrowed: April 30.

(2) Harrowed: April 30, May 6, May 31.

(3) Mechanical weeder: April 30.

(4) Mechanical weeder: April 30, May 6, May 31.

DNEP at 4 pts in 100 gallons per acre sprayed: May 26.

Standard error per plot:

Grain: 1.07 cwt per acre or 6.3% (8 d.f.)

55/Cc/2.2

Summary of Results

Grain: cwt per acre

Spray	Treatment cultivations					Mean
	0	1	2	3	4	
	$(\pm 0.76)^{\#}$					
None	18.5	17.5	14.3	18.5	16.4	17.0
DNBP	17.1	17.6	15.1	17.4	17.7	17.0
Mean (± 0.54)	17.8	17.5	14.7	18.0	17.1	17.0
Difference $(\pm 1.07)^{+}$	-1.4	+0.1	+0.8	-1.1	+1.3	0.0

$^{\#}$ for use in horizontal comparisons only

$^{+}$ for use in the comparison of two differences only

Mean dry matter % as harvested: 86.2

Treatment cultivations

- (0) No extra cultivation.
- (1) Harrowed once.
- (2) Harrowed three times.
- (3) Mechanical weeder once.
- (4) Mechanical weeder three times.