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54/R/CC/1 Winter Beans - Control of Weeds

Rothamsted Research

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54/Cc/1.1

WINTER BEANS

Control of Weeds - Little Knott I 1954.

System of replication: 4 randomized blocks of 8 plots each.

Area of each plot: 0.0175 acre.

Treatments: Additional cultivations:-

None	(1)
Harrow (only)	(2)
Mechanical weeder (only)	(3)
Extra horse hoeing	(4)
Harrow and extra horse hoeing	(5)
Weeder and extra horse hoeing	(6)
Clean weeding by hand pulling	(7)
Clean weeding by hand hoeing	(8)

Basal cultivations: A single horse hoeing.

Basal dressing: 5 cwt compound granular fertilizer (16% P_2O_5 , 16% K_2O) per acre.

Cultivations, etc.: Ploughed: Sept 18, 1953. Seed drilled at 280 lb per acre: Oct 20. Fertilizer applied: Oct 21. Horse hoed all plots: May 5, 1954. Dusted with 3% nicotine dust: June 24. Harvested: Sept 11. Variety: Deneb (stock strain). Previous crop: Barley.

Treatment cultivations:

Treatments 2 and 5	harrowed: May 10.
" " 3 and 6	cleaned by mechanical weeder: May 10.
" " 4, 5, 6	horse hoed: May 21 and again June 5.
" " 7	hand weeded: May 24-26 and again June 5.
" " 8	hand hoed: May 20-26.

Standard error per plot:

Grain: 2.65 cwt per acre or 12.7% (21 d.f.)

54/Cc/1.2

Summary of Results

	Treatment Cultivations								Mean
	1	2	3	4	5	6	7	8	
Grain: cwt per acre									
Mean (± 1.33)	19.0	21.7	22.3	18.9	21.1	23.0	20.7	21.0	21.0
Increase (± 1.88)		+2.7	+3.3	-0.1	+2.1	+4.0	+1.7	+2.0	
Straw: cwt per acre									
Mean	30.8	32.5	35.1	30.9	30.2	34.5	28.9	31.2	31.8
Increase		+1.7	+4.3	+0.1	-0.6	+3.7	-1.9	+0.4	

Treatment Cultivations

1. None
2. Harrow (only)
3. Mechanical weeder (only)
4. Extra horse hoeing
5. Harrow and extra horse hoeing
6. Weeder and extra horse hoeing
7. Clean weeding by hand pulling
8. Clean weeding by hand hoeing