Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1953



Full Table of Content

53/CD/1 Winter Beans - Cultivations - Rothamsted

Rothamsted Research

Rothamsted Research (1954) 53/CD/1 Winter Beans - Cultivations - Rothamsted; Yields Of The Field Experiments 1953, pp 85 - 86 - DOI: https://doi.org/10.23637/ERADOC-1-173

53/Cd/1.1

WINTER BEANS

Effect of cultivations on ploughed in beans - Long Hoos V 1953.

System of replication: 6 randomized blocks of 6 plots each, in 3 block pairs, the effect of spraying being confounded with block differences.

Area of each plot: 0.0145 acre.

Treatments: All combinations of:

Cultivations on furrows: Work down furrows in autumn (A); work
down furrows in spring (B); A and B.

Cultivations by weeding: None; mechanical weeder cultivation
in spring (W).

Spraying (on blocks): None; DNBP medium volume.

Basal dressing: None.

Cultivations, etc.: Beans ploughed in at 3 cwt per acre: Nov 4, 1952.

Heavy harrowed 'A' and 'AB' plots: Nov 7. Medium harrowed 'A' and 'AB' plots twice: Nov 8. Sprayed appropriate blocks with DNPB:

Apr 28, 1953. Harrowed 'B' plots: May 5. Weeded 'W' plots:

May 12. Horse hoed all plots: May 12 and again June 6. Hand weeded: June 17, June 29, July 27. Harvested: Sept 5. Variety: Deneb (own seed). Previous crop: Potatoes.

Standard errors per plot:
Unsprayed blocks: 4.25 cwt per acre or 17.2% (10 d.f.).
Sprayed blocks: 1.50 cwt per acre or 6.1% (9 d.f.)*

^{* 1} missing value.

53/04/1.2

Summary of Results

	Unsprayed Work down furrows			cwt per	acre Sprayed Work down furrows				
Weeding	In Autumn	In Spring	In Autumn and Spring	Mean	In Autumn	In Spring	In Autumn and Spring	Mean	
		(±2.46)				(±0.87)			
None Mechanical		26.4		25.5 24.1		23.7 25.4		23.8 25.2	
Mean		25.6 (±1.74)	23.8	24.8		24.6 (±0.61)		24.5	
Difference	-1.3	-1.6 (±3.47)	-1.3	-1.4 (±2.01)	+5.0	+1.7 (±1.23)	-2.3	+1.4 (±0.71)	
Straw: cwt per acre									
None Mechanical					40.4 37.7			35.0 33.8	
Mean	39.4	35.3	39.0	37.9	39.0	28.8	35.4	34.4	
Difference	-1.8	+0.2	-5.1	-2.2	-2.7	+2.7	-3.5	-1.2	

Grain: cut per acre

Weeding	Responding In Autumn	In Spring	raying In Autumn and Spring	Mean
		(±2.66)*		
None Mechanical	-4. 0 +2. 3	-2.7 +0.6	+1.5	-1.7 +1.1
Mean	-0.8	-1.0 (±1.88)*	+1.0	-0.3
Difference	+6.3	+3.3 (±3.76)	-1.0	+2.8 (±2.17)

^{*}for use in testing the differences of 2 responses to spraying.