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 1951



Full Table of Content

51/CD/2 Winter Beans - Fertilizer Placement - Rothamsted

Rothamsted Research

Rothamsted Research (1952) 51/CD/2 Winter Beans - Fertilizer Placement - Rothamsted ; Yields Of The Field Experiments 1951, pp 73 - 74 - DOI: https://doi.org/10.23637/ERADOC-1-171

This work is licensed under a <u>Creative Commons Attribution 4.0 International License</u>.

51/Ca/2.1

WINTER BEANS

Fertilizer placement - West Barnfield I, 1951.

System of replication: 4 randomized blocks of 8 plots each, a high order interaction being confounded with block differences.

Area of each plot: 0.0152 acre. Area harvested: 0.0120 acre.

Treatments: None (quadruplicate plots) and all combinations of: Granular compound fertilizer (133% P205, 133% K20): 2.65; 5.30 cwt per acre.

Methods of placement: Drilled 3" below surface and 2" to side of seed (duplicate plots); broadcast on the flat and ploughed in (E); broadcast on the seed bed and harrowed in (L); half broadcast on the flat and ploughed in, half drilled; half broadcast on the seed bed and harrowed in, half drilled.

Basal manuring: None.

Cultivations, etc.: 'E' fertilizers applied, ploughed all plots: Sept 19. 'L' fertilizers applied: Sept 29. Beans drilled at 3¹/₂ bushels per acre with placed fertilizers as above: Oct 6. Harvested: Aug 15. Previous crop: Wheat.

Standard errors per plot: Yield, dry matter: 1.47 cwt per acre or 5.9% (18 d.f.) Plant number: 7.69 thousands per acre or 8.9% (18 d.f.) This work is licensed under a <u>Creative Commons Attribution 4.0 International License</u>.

51/Ca/2.2

Summary of Results

					, s –						
Compound fertilizer cwt per acre	ם	Method o E	of Place L	$\frac{1}{2} \frac{E_2^1}{2} D$	$\frac{1}{2}L_2^1D$	Mean					
Yield, dry matter: cwt per acre											
	(±0.45)		(±0.68)								
None	1		÷			12.3 (±0.32)					
2.65	16.0	114.1	13.5	16.9	16.3	15.5 (±0.26)					
5.30	18.9 1	16.3	14.0	16.6	16.9	16.9					
Mean (±0.45)	17.5(1)	15.2	13.8	16.7	16.6	15.2					
Standard error Mean D.M. 79.5		2.									
Ale in the second second	Plant n	umber:	thousan	ds per a	acre						
-	(±3.8)	(±3.8) (±5.8)				1 -					
None						80 (±2.7)					

2.65	97	86	75	87	97	90	
5.30	80 1	81	87	07	97	88	(±2.2)
Handline of the local data and the	(2)			71			
Mean (±3.8)	93 (2)	85	81	92	90	87	
Ston Jourd	(0) 0 5					0.0	

Standard error (2): 2.7

- D Drilled
- E Broadcast on flat and ploughed in.
- L Broadcast on seed bed and harrowed in.
- 12E1D Half broadcast on flat and ploughed in, half drilled.
- 12L2D Half broadcast on seed bed and harrowed in, half drilled.