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# 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

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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 3<sup>1</sup>/<sub>2</sub> 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.