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# Yields of the Field Experiments 1951



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## 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

51/Cd/2.1

#### WINTER BEANS

Pertilizer 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
3½ 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 cut per acre or 5.9% (18 d.f.)
Plant number: 7.69 thousands per acre or 8.9% (18 d.f.)

51/Ca/2.2

### Summary of Results

Compound fertilizer cwt per acre	D 1	Method (	of Place	ement ½E½D	1/2 L 1/2 D	Mean
	Yield,	dry ma	tter: c	ot per a	acre	r
	(±0,45)		(±	0.68)		
None	1		8			12.3 (±0.32)
2.65	16.0	114.1	13.5	16.9 16.6	16.3	15.5 (±0.26)
5.30	18.9	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		52.				

Plant number: thousands per acre

	(±3.8)		(±5,8)				1 -		
None						80	$(\pm 2.7)$		
2,65	97	86	75	87	97	90	(±2,2)		
5.30	89	84	87	97	83	88	(====/		
Mean (±3.8)	93 (2)	85	81	92	90	87	1-12-X-100-1-17		

Standard error (2): 2.7

D - Drilled

E - Broadcast on flat and ploughed in.

L - Broadcast on seed bed and harrowed in.

 $\frac{1}{2}E_2^{\frac{1}{2}}D$  - Half broadcast on flat and ploughed in, half drilled.

½L½D - Half broadcast on seed bed and harrowed in, half drilled.