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# Yields of the Field Experiments 1951



Full Table of Content

## 51/CD/1 Spring Beans - Fertilizer Placement - Rothamsted

#### **Rothamsted Research**

Rothamsted Research (1952) 51/CD/1 Spring Beans - Fertilizer Placement - Rothamsted; Yields Of The Field Experiments 1951, pp 71 - 72 - DOI: https://doi.org/10.23637/ERADOC-1-171

51/ca/1.1

#### SPRING 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: 0.0126 acre.

Treatments: None (quadruplicate plots) and all combinations of:

Granular compound fertilizer (13\frac{3}{4}\% P\_2O\_5, 13\frac{3}{4}\% K\_2O): 2.65; 5.30

cyt 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: Mar 8. Ploughed all plots: Mar 8. 'L' fertilizers applied, beans drilled at 4 bushels per acre with placed fertilizers as above: Apr 16. Sprayed with 1% nicotine against blackfly: June 11 and again July 19. Harvested: Sept 8. Previous crop: Wheat.

Standard errors per plot:
Yield, dry matter: 1.32 cwt per acre or 10.1% (18 d.f.)
Plant number: 9.59 thousands per acre or 8.2% (18 d.f.)

51/Cd/1.2

### Summary of Results

Compound fertilizer cwt per acre	D	Method E	of Plac	ement ½E½D	1 <u>L</u> 1D	Mean
	Yield,	dry ma	tter: c	wt per	acre	
	(±0,66)	(±0.99)				-
None	1					12.2 (±0.47)
2.65	13.7	13.4	12.8	14.9	13.0	12.2 (±0.47) 13.6 (±0.38)
5.30	14.3	15.3	11.5	12.0	11.2	13.1
Mean (±0.66)	14.0(1)	14.4	12.2	13.5	12.1	13.1

Standard error (1): 0.47. Mean D.M. 79.0%

Plant number: thousands per acre

	(±4.8)		(±				
None	- 1			118	(±3.4)		
2.65	120	116	115	98	128	116	
5.30	116	104	125	124	124	118	(±2.8)
Mean (±4.8)	118 (2)	110	120	111	126	117	

Standard error (2): 3.4

D - Drilled.

E - Broadcast on flat and ploughed in.

L - Broadcast on seed bed and harrowed in.

1E1D - Half broadcast on flat and ploughed in, half drilled.

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