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Yields of the Field Experiments 1951



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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 (13³/₄% P₂0₅, 13³/₄% K₂0): 2.65; 5.30 cvt 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.) This work is licensed under a <u>Creative Commons Attribution 4.0 International License</u>.

51/ca/1.2

Summary of Results

Compound fertilizer cwt per acre	D	Method E	of Plac L	$\frac{121}{2}$	111D	Mean		
	Yield,	dry ma	tter: c	wt per	acre			
	(±0.66)	(±0.95)			1			
None	1					12.2	2 (±0.47)	
2.65	13.7	13.4	12.8	14.9	13.0	13.6	(±0.38)	
5.30	14.3	15.3	11.5	12.0	11.2	13.1	(20.)0)	
Mean (±0.66)	14.0(1)	14.4	12.2	13.5	12.1	13.1		
Standard erro Mean D.M. 79.		7.				·		
	Plant n	umber: t	thousan	ds per s	acre		4	
	(±4.8)	(±7.2)				1		
None	1 - 1					118	(±3.4)	
2.65	120	116	115	98	128	116	(10.0)	
5.30	116 1	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.

1210 - Half broadcast on flat and ploughed in, half drilled.

12L2D - Half broadcast on seed bed and harrowed in, half drilled.