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/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 (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.