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## Yields of the Field Experiments 1950

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

#### Rothamsted Research

Rothamsted Research (1951) *50/CD/1 Spring Beans - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1950, pp 65 - 66 - DOI: <https://doi.org/10.23637/ERADOC-1-185>

50/ca/1.1

### SPRING BEANS

Fertilizer placement - West Barnfield II 1950.

System of replication: 2 randomized blocks of 16 plots each.

Area of each plot: 0.0137 acre. Area harvested: 0.0110 acre.

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

Levels of fertilizer: 2, 3, 4, 6 cwt per acre granular compound fertilizer (14%  $P_2O_5$ , 14%  $K_2O$ ).

Methods of placement: <sup>5</sup>Drilled beside seed (duplicate plots).  
Broadcast before ploughing (E); broadcast on seed bed and harrowed in (L); half broadcast before ploughing, half drilled; half broadcast on seed bed and harrowed in, half drilled.

Basal manuring: None.

Cultivations, etc: Ploughed: Sept 15.19. "E" fertilizers applied:  
Mar 7. Ploughed: Mar 8. Harrowed twice, "L" fertilizers applied:  
Mar 10. Beans and fertilizers drilled; Mar 11. Harrowed in:  
Mar 13. Harrowed: Apr 20. Harvested: Aug 12. Previous crop: Wheat.

Standard errors per plot:

Yield, dry matter: 2.02 cwt per acre or 11.7% (20 d.f.)

Plant number: 8.06 thousands per acre or 6.9% (20 d.f.)

50/ca/1,2

Summary of Results

| Compound Fertilizer Cwt per acre | Drilled             | Broad-cast before ploughing | Broad-cast on seed bed | Broad-cast before ploughing and drilled | Broad-cast on seed bed and drilled | Mean         |
|----------------------------------|---------------------|-----------------------------|------------------------|---|------------------------------------|--------------|
| Yield, dry matter: cwt per acre  |                     |                             |                        |   |                                    |              |
| None                             | (±1.01)             |                             | (±1.43)                |   |                                    | 14.5 (±0.71) |
| 2.3                              | 19.1                | 17.4                        | 15.5                   | 16.9                                    | 17.5                               | 17.6         |
| 4.6                              | 18.7                | 17.4                        | 14.4                   | 20.4                                    | 21.9                               | 18.6         |
| Mean (±1.01)                     | 18.9 <sup>(1)</sup> | 17.4                        | 15.0                   | 18.7                                    | 19.7                               | 17.2         |

Standard error (1) ±0.71

| Plant number: thousands per acre |                    |     |        |     |     |            |
|----------------------------------|--------------------|-----|--------|-----|-----|------------|
| None                             | (±4.0)             |     | (±5.7) |     |     | 113 (±2.9) |
| 2.3                              | 132                | 108 | 142    | 117 | 116 | 124        |
| 4.6                              | 112                | 111 | 113    | 113 | 121 | 114        |
| Mean (±4.0)                      | 122 <sup>(2)</sup> | 109 | 128    | 115 | 118 | 118        |

Standard error (2) ±2.9