

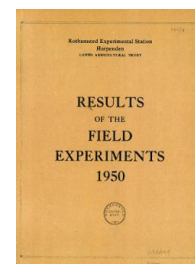
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Yields of the Field Experiments 1950

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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: ⁵Drilled 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 (±0.58) |
| Mean (±1.01) | 18.9 ⁽¹⁾ | 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 (±2.3) |
| Mean (±4.0) | 122 ⁽²⁾ | 109 | 128 | 115 | 118 | 118 |

Standard error (2) ±2.9