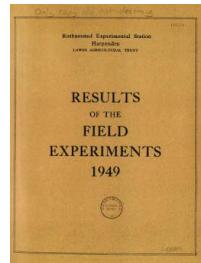


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Yields of the Field Experiments 1949

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49/CC/1 Spring Beans - Fertilizer Placement

49/CC/1 Spring Beans - Fertilizer Placement, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 75 - 76

49/Cc/1.1

SPRING BEANS

The effects of methods of placement of a compound fertilizer at two rates of application.

RE - Long Hoos V 1949

System of replication: 4 randomized blocks of 8 plots each, a high order interaction being confounded with block differences.

Area of each plot: 0.0173 acre. Area harvested: 0.0154 acre.

Treatments:

Levels of fertilizer: None, 3.5, 7.0 cwt per acre granulated compound fertilizer (13.1% P₂O₅ 13.4% K₂O).

Methods of placement: Drilled 3" below 2" to side of seed (duplicate plots); broadcast early (after last ploughing); broadcast late (in seed bed and harrowed in); half broadcast early, half drilled beside seed; half broadcast late, half drilled beside seed.

Basal manuring: None.

Cultivations, etc: Ploughed: Sept 24-25. Applied "early" fertilizers, springtined: Feb 26. Applied "late" fertilizers, drilled seed and fertilizer: Mar 19. Harrowed in: Mar 21. Harrowed across the rows: Mar 31. Hood: May 11, June 1, 7 and 9. Sprayed: June 24. Harvested: Aug 13. Previous crop: Barley.

Standard errors per plot

Yield, dry matter: 1.01 cwt per acre or 13.3% (18 d.f.)
Plant number: 2.23 tons of thousands per acre or 7.3% (18 d.f.).

49/Cc/l.2

| Compound fertilizer cwt per acre | Drilled | Broad- cast | Broad- cast | Broad- cast Early and Drilled | Broad- cast Late and Drilled | Mean |
|---|---------|----------------|----------------|---|--|------|
| | | Early | Late | | | |

Yield, dry matter: cwt per acre

| | | | | | | |
|-----------------|--------------------|-----|---------|-----|-----|------------|
| None | (±0.51) | | (±0.76) | | | 7.8(±0.36) |
| 3.5 | 7.7 | 7.6 | 6.6 | 6.8 | 8.3 | 7.5 |
| 7.0 | 8.3 | 6.0 | 8.5 | 7.8 | 6.8 | 7.6 |
| Mean (±0.51) | 8.0 ⁽¹⁾ | 6.8 | 7.6 | 7.3 | 7.6 | 7.6 |

Standard error (1) ±0.36

Plant number: tons of thousands per acre

| | | | | | | |
|-----------------|---------------------|------|---------|------|------|-------------|
| None | (±1.11) | | (±1.67) | | | 30.2(±0.79) |
| 3.5 | 31.0 | 30.8 | 29.3 | 28.3 | 32.8 | 30.5 |
| 7.0 | 31.2 | 29.4 | 32.9 | 31.6 | 29.3 | 30.9 |
| Mean (±1.11) | 31.1 ⁽²⁾ | 30.1 | 31.1 | 29.9 | 31.1 | 30.6 |

Standard error (2) ±0.79