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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

SPRING BEANS

49/Cc/1.1

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 tens of thousands per acre or 7.3% (18 d.f.)

49/00/1.2

Compound fertilizer cwt per acre	Drilled	Broad-cast Early	Broad-cast Late	Broad-cast Early and Drilled	Broad-cast Late and Drilled	Mean
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 (±0.29)
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 (±0.64)
Mean (±1.11)	31.1 ⁽²⁾	30.1	31.1	29.9	31.1	30.6

Standard error (2) ±0.79