

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 readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1949

[Full Table of Content](#)



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% P_2O_5 13.4% K_2O).
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