

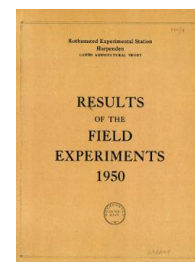
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50/CD/1 Spring Beans - Fertilizer Placement - Rothamsted

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/cd/1,2

Summary of Results

Compound Fertilizer Cwt per acre	Drilled	Broad- cast before plough- ing	Broad- cast on seed bed	Broad- cast before plough- ing 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