

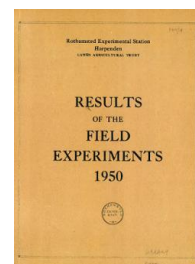
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1950

[Full Table of Content](#)



50/CD/2 Winter Beans - Fertilizer Placement - Rothamsted

Rothamsted Research

Rothamsted Research (1951) *50/CD/2 Winter Beans - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1950, pp 67 - 68 - DOI: <https://doi.org/10.23637/ERADOC-1-185>

50/ca/2.1

WINTER BEANS

Fertilizer placement - West Barnfield II 1950.

System of replication: 2 randomized blocks of 16 plots each.

Area of each plot: 0.0152 acre. Area harvested: 0.0121 acre.

Treatments: None (quadruplicate plots) and all combinations of:

Levels of fertilizer: 3.2, 6.4 cwt per acre granular compound fertilizer (13% P_2O_5 , 13% K_2O).

Methods of placement: Drilled 3" below soil surface and 2" to side of seed (duplicate plots); broadcast on the plough furrow and cultivated in (E); broadcast on seed bed and harrowed in (L); half broadcast on the plough furrow and cultivated in, half drilled; half broadcast on seed bed and harrowed in, half drilled.

Basal manuring: None.

Cultivations, etc: Ploughed: Sept 15-19. "E" fertilizers applied: Sept 30. Rolled and springtined: Oct 10. Disc and tooth harrowed: Oct 12. "L" fertilizers applied, beans and fertilizers drilled: Oct 12. Harrowed in: Oct 14. Harrowed: Apr 20. Harvested: July 31. Previous crop: Wheat.

Standard errors per plot:

Yield, dry matter: 1.14 cwt per acre or 5.9% (20 d.f.)

Plant number: 8.61 thousands per acre or 6.6% (20 d.f.)

50/ca/2.2

Summary of Results

Compound Fertilizer Cwt per acre	Drilled	Broad- cast on plough furrow	Broad- cast on seed bed	Broad- cast on plough furrow and drilled	Broad- cast on seed bed and drilled	Mean
Yield, dry matter: cwt per acre						
None	(± 0.57)		(± 0.80)			15.3 (± 0.40)
3.2	20.4	19.2	16.6	19.8	20.2	19.4
6.4	22.2	22.4	20.0	22.7	22.2	21.9
Mean (± 0.57)	21.3 ⁽¹⁾	20.8	18.3	21.3	21.2	19.3
Standard error (1) ± 0.40						

Plant number: thousands per acre						
None	(± 4.3)		(± 6.1)			127 (± 3.0)
3.2	132	122	128	135	128	130
6.4	130	136	121	129	145	132
Mean (± 4.3)	131 ⁽²⁾	129	125	132	136	130
Standard error (2) ± 3.0						