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# Yields of the Field Experiments 1951

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## 51/CD/3 Winter Beans - Fertilizer Placement - Rothamsted

### Rothamsted Research

Rothamsted Research (1952) *51/CD/3 Winter Beans - Fertilizer Placement - Rothamsted* ; Yields Of The Field Experiments 1951, pp 75 - 75 - DOI: <https://doi.org/10.23637/ERADOC-1-171>

51/cd/3

WINTER BEANS

Fertilizer placement (Contact) - West Barnfield I 1951.

System of replication: 2 randomized blocks of 6 plots each.

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

Treatments: None, and all combinations of: -

Compound granular fertilizer (13 $\frac{3}{4}$ % P<sub>2</sub>O<sub>5</sub>, 13 $\frac{3}{4}$ % K<sub>2</sub>O): 2.65; 5.30 cwt per acre.

Method of placement: Broadcast immediately before drilling (5.30 cwt only; In contact with seed; Drilled 2" to side of seed.

Basal manuring: None.

Cultivations etc: Ploughed: Sept 19. Seed drilled at 3 $\frac{1}{2}$  bushels per acre with fertilizer applied as above: Oct 6. Harvested: Aug 15. Previous crop: Wheat.

Standard error per plot:

Yield, dry matter: 3.29 cwt per acre or 18.2% (5 d.f.)

Summary of Results

Compound granular fertilizer cwt per acre.	Method of placement			Mean
	Broadcast	In contact with seed	Drilled 2" to side of seed	
Yield, dry matter: cwt per acre				
None		(±2.32)		15.3 (±2.32)
2.65		16.4	16.7	16.5 (±1.64)
5.30	21.3	15.9	23.0	20.0 (±1.34)
Mean	21.3 (±2.32)	16.2 (±1.64)	19.8	18.1
Plant number: thousands per acre				
None				130
2.65		122	130	126
5.30	123	115	120	119
Mean	123	118	125	123

Mean dry matter %: 79.6.