

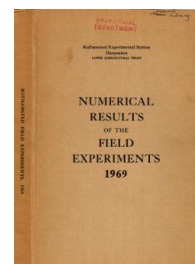
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Numerical Results of the Field Experiments 1969

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69/R/BE/1 - B-nine, N, Row Spacing and Seed Rate - Beans

Rothamsted Research

Rothamsted Research (1970) *69/R/BE/1 - B-nine, N, Row Spacing and Seed Rate - Beans* ; Numerical Results Of The Field Experiments 1969, pp 274 - 275 - **DOI:**

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SPRING BEANS

(69/R/BE/1)

B9*, N, row spacing and seed rate, Stackyard 1969.

Design: A single replicate of 4 x 2 x 2 x 2 x 2 in 4 blocks of 4 plots, split for N treatments, with interactions confounded.

Area of each plot: 0.0022. Area harvested: 0.0005.

Treatments: All combinations of:-

- Whole plots: 1. Row spacing: Rows 5.5(C), 21(W) inches apart.
2. Seed rate: 200 (R1), 400 (R2) lb.
3. Growth regulator: None (O), B9* at 4 lb in 56 gals on 3 occasions (S).
- Sub plots: 4. Nitrogen: None (N0), 1 (N1), 2 (N2), 3 (N3) cwt as 'Nitro-Chalk'.
5. Time of application of N: In seedbed (E) in June (L).

* N-dimethylaminosuccinamic acid.

Basal applications: 360 lb (0:14:28) drilled 3-4 in deep, by 'Tume' drill. Weedkiller: Simazine at 1 lb in 20 gals.
Insecticide: Demeton-s-methyl at 3.5 oz in 37 gals.

Cultivations, etc.: Ploughed: 25 Oct, 1968. Basal fertiliser applied: 10 Mar, 1969. Seed drilled, weedkiller applied: 27 Mar. 'Nitro-Chalk' applied to E plots: 28 Mar, to L plots: 9 June. B9 applied to S plots: 20 May, 12 June, 16 July. Insecticide applied: 25 June. Harvested by sickle: 11 Sept. Variety: Tarvin. Previous crops: Barley 1967, fallow 1968.

NOTE: Germination counts were made and estimates of the percentage of lodging, stem height, number of stems and pods, and of the percentage of N in grain. 1000 grain weights were calculated.

Standard errors per plot. Grain, cwt:

Whole plot: 0.69 or 2.1% (5 d.f.)
Sub plot: 1.63 or 5.0% (13 d.f.)

SUMMARY OF RESULTS

GRAIN: CWT

	NO	N1	N2	N3	Mean
	(1) & (2)				(± 0.24)
C	31.1	33.3	34.1	34.1	33.2
W	31.9	31.4	32.5	32.7	32.1
	(1) & (2)				(± 0.24)
R1	32.0	31.6	32.6	33.0	32.3
R2	31.0	33.1	34.0	33.8	33.0
	(1) & (2)				(± 0.24)
O	31.1	32.6	34.2	33.1	32.8
S	31.9	32.1	32.4	33.7	32.5
	(1) & (2)				(± 0.33)
E		32.8	33.7	34.0	33.5
L		31.9	32.9	32.8	32.5
Mean (± 0.41)	31.5	32.3	33.3	33.4	32.6

- (1) (± 0.56) For use in vertical and diagonal comparisons only
 (2) (± 0.58) For use in horizontal and interaction comparisons only

Mean D.M.%: 79.6