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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

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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