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## Numerical Results of the Field Experiments 1969

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### 69/R/BE/2 - Growth Regulators - Beans

#### Rothamsted Research

Rothamsted Research (1970) *69/R/BE/2 - Growth Regulators - Beans* ; Numerical Results Of The Field Experiments 1969, pp 278 - 279 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

SPRING BEANS

(69/R/BE/2)

Growth regulators, Stackyard 1969.

Design: 2 blocks of 16 plots, randomisation restricted.

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

Treatments: Growth regulators and rates of application:-

|                                     |       |
|-------------------------------------|-------|
| None (2 plots per block)            | (O)   |
| B9 at 2 lb a.i. on 3 occasions      | (B1)  |
| B9 at 4 lb a.i. on 3 occasions      | (B2)  |
| Morphactin IT 3233 at 0.025 gm a.i. | (MA1) |
| Morphactin IT 3233 at 2.5 gm a.i.   | (MA2) |
| Morphactin IT 3456 at 0.25 gm a.i.  | (MB1) |
| Morphactin IT 3456 at 25 gm a.i.    | (MB2) |
| Ethrel at 0.1 lb a.i.               | (E1)  |
| Ethrel at 1.0 lb a.i.               | (E2)  |
| C Oll at 1 lb a.i.                  | (C1)  |
| C Oll at 4 lb a.i.                  | (C2)  |
| R34610/1A (JF 2578) at 1 lb a.i.    | (RA1) |
| R34610/1A (JF 2578) at 4 lb a.i.    | (RA2) |
| R34691/1A (JF 2579) at 1 lb a.i.    | (RB1) |
| R34691/1A (JF 2579) at 4 lb a.i.    | (RB2) |

Each applied in 56 gals.

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 at 200 lb, weedkiller applied: 27 Mar. Growth regulators applied: 20 May. B9 applied second time: 13 June. Insecticide applied: 25 June. B9 applied third time: 10 July. 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 error per plot.

Grain, cwt: 1.94 or 6.3% (15 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

|                 | O       | B    | MA   | MB   | E    | C    | RA   | RB   | Mean    |
|-----------------|---------|------|------|------|------|------|------|------|---------|
|                 | (±1.37) |      |      |      |      |      |      |      | (±0.52) |
| 1               |         | 32.3 | 33.3 | 32.1 | 34.1 | 34.7 | 30.4 | 31.2 | 32.6    |
| 2               |         | 32.5 | 15.7 | 32.1 | 27.5 | 29.2 | 31.8 | 33.3 | 28.9    |
| Mean<br>(±0.97) | 32.8    | 32.4 | 24.5 | 32.1 | 30.8 | 32.0 | 31.1 | 32.2 | 31.0*   |

Mean D.M.%: 80.5

\*General Mean