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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 (±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