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Yields of the Field Experiments 1967

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67/R/EZ/C/30 N and Growth Regulators - Beans

Rothamsted Research

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67/C/30.1

SPRING BEANS

(EZ)

N and growth regulators, Long Hoos III 1967.

Design: 2 randomised blocks of 24 plots.

Area of each plot: 0.0010. Area harvested: 0.0005.

Treatments: All combinations of:-

1. Nitrogen: None (N0), 1.5 cwt (N1), 3.0 cwt (N2) as 'Nitro-Chalk'.
2. Times of application: In the seedbed (E), half in the seedbed, half in June (EL).
3. Growth regulators: None (0), chlormequat* at 5 lb in 112 gals (C), DSA** at 5 lb in 112 gals (D), topped after flowering (T).

* 2 chloroethyltrimethylammonium chloride, formerly known as CCC.

** Dimethylaminosuccinamic acid (previously called 'B-Nine', now called alar).

Basal applications: 210 lb (0:20:20) placement drilled. Weedkiller: Simazine at 1 lb in 32 gals. Insecticide: Demeton-s-methyl at 3 oz in 37 gals and later at 3 oz in 3 gals by fixed-wing aircraft.

Cultivations, etc.: Ploughed: Sept 22, 1966. Ground chalk applied at 50 cwt: Jan 7, 1967. Ploughed 2nd time: Jan 13. Seed drilled at 200 lb: Mar 16. Seedbed 'Nitro-Chalk' applied: Mar 17. Weedkiller applied: Mar 18. Chlormequat and DSA applied: May 9. Second half dressing of 'Nitro-Chalk' applied to EL treatment: May 31. Insecticide applied: June 14 and July 11. Plants topped (T treatment): July 5. Hand harvested: Sept 5. Variety: Tarvin. Previous crops: Potatoes 1965, spring wheat 1966.

Standard error per plot.

Grain: 2.77 or 7.5% (23 d.f.)

67/c/30.2

SUMMARY OF RESULTS

GRAIN

	E	EL	O	C	D	T	Mean
	(±0.98)		(±1.39)				(±0.69)
NO	-	-	37.2	34.7	35.1	35.3	35.6
N1	36.8	36.6	38.3	36.9	35.5	36.0	36.7
N2	38.3	39.4	39.7	37.8	39.0	38.8	38.8
E*			39.2	36.6	37.5	36.8	37.5
EL*			38.8	38.1	37.0	38.0	38.0
Mean (±0.80)			38.4	36.5	36.5	36.7	37.0

Mean D.M. %: 77.2

* The figures in these two lines are means over N1 and N2 only.