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Numerical Results of the Field Experiments 1968

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68/DC/3 B-nine* and Nitrogen - S. Beans

Rothamsted Research

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68/Dc/3.1

SPRING BEANS

(MC)

B-Nine* and nitrogen, Summerdells II 1968.

* Dimethylamino-succinamic acid, a dwarfing compound, formerly known as DSA.

Design: 2 randomised blocks of 18 plots.

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

Treatments: All combinations of:-

1. B-Nine: Unsprayed (O), sprayed on 3 occasions with B-Nine at 4 lb in 56 gals (S).
2. Nitrogen: None (NO), 1.5 (N1), 3.0 (N2) cwt N as 'Nitro-Chalk'.
3. Time of application of N: All in seedbed (E), all in late May (L), half in seedbed, half in late May (EL).

Basal applications: 360 lb (0:14:28) placement drilled. Weedkiller: Simazine at 1 lb in 33 gals.

Cultivations, etc.: Ploughed: 26 Sept, 1967. Seed drilled at 200 lb: 6 Mar, 1968. Weedkiller applied: 8 Mar. 'Nitro-Chalk' applied to E and EL plots: 12 Mar. S plots sprayed with B-Nine: 14 May. 'Nitro-Chalk' applied to EL and L plots: 27 May. S plots sprayed with B-Nine: 7 June and 3 July. Harvested by hand: 9 Sept. Variety: Tarvin. Previous crops: Fallow 1966, winter wheat 1967.

NOTE: Observations were made of stem height, number of stems and of pods. 1000 grain weights and percentage N in the grain were determined.

Standard error per plot.

Grain: 3.19 or 11.4% (17 d.f.)

68/Dc/3.2

SUMMARY OF RESULTS

		GRAIN						
		NO	N1	N2	E	L	EL	Mean
			(±1.30)			(±1.59)		(±0.75)
O		24.6	29.0	29.2	30.1	29.6	27.5	27.6
S		27.2	29.9	28.5	28.1	30.9	28.7	28.5
						(±1.59)		(±0.92)
			N1		29.6	31.4	27.5	29.5
			N2		28.6	29.1	28.8	28.8
			Mean (±1.13)		29.1	30.3	28.1	28.1

Mean D.M. %: 72.9

NOTE: The (E L EL) (OS) table is meaned over N1 and N2 only. The means for O and S are meaned over NO, N1 and N2.