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Numerical Results of the Field Experiments 1968

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68/C/28 Rates of Placement of N for Beans

Rothamsted Research

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68/c/28.1

RATES AND PLACEMENT OF N FOR BEANS

(CJ)

Rates and placement of N for beans followed by wheat, Long Hoos III 1968, the second year, winter wheat.

Design: 3 randomised blocks of 9 plots, split into 3.

Area of each sub plot: 0.0020. Area harvested: 0.0020.

Treatments:

Whole plots: Treatments to spring beans 1967:

1. Method of application of N: Broadcast as 'Nitro-Chalk' with PK placed as compound (0:20:20) (B), 1 cwt N placed in compound (25:10:10), remainder broadcast as 'Nitro-Chalk' (P).
2. Levels of N: 1 (R1), 2 (R2), 3 (R3) cwt N.

Also 3 plots per block with no N (0).

Sub plots: N to winter wheat 1968:-

3. None (N0), 0.5 (N1), 1.0 (N2) cwt N as 'Nitro-Chalk'.

Basal applications: 340 lb (0:14:28) combine drilled. Weedkiller: Paraquat at 1 lb ion in 32 gals. Ioxynil at 9 oz and mecoprop at 27 oz in 20 gals.

Cultivations, etc.: Paraquat applied: 21 Sept, 1967. Rotary cultivated: 22 Nov. Seed drilled at 180 lb: 23 Nov. 'Nitro-Chalk' applied: 18 Apr, 1968. Ioxynil and mecoprop applied: 26 Apr. Combine harvested: 24 Aug. Variety: Cappelle.

NOTE: For previous years' results see 'Results' 67/c/36.

Standard errors per plot, Grain:

Whole plot: 1.70 or 4.9% (16 d.f.)
Sub plot: 3.19 or 9.2% (36 d.f.)

68/c/28.2

SUMMARY OF RESULTS

	GRAIN					Mean
	B	P	NO	N1	N2	
1967	(± 0.98)		(± 1.30)			(± 0.69)
R1	35.1	34.9	26.2	39.5	39.2	35.0
R2	35.7	35.4	29.2	39.7	37.7	35.5
R3	37.4	35.1	29.8	40.9	38.1	36.2
			(1) and (2)			(± 0.57)
		D	22.6	36.5	38.6	32.6
		B	30.4	39.8	37.9	36.0
		P	26.4	40.3	38.7	35.1
Mean (± 0.61)			26.5	38.9	38.4	34.6*

(1) (± 1.04) For use in vertical and diagonal comparisons only

(2) (± 1.06) For use in horizontal and interaction comparisons only

* General mean

Mean D.M. %: 83.4

NOTE: The R N table is meaned over B and P only.