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67/R/CA/C/21 Levels and Forms of N for Beans - Winter Wheat

Rothamsted Research

Rothamsted Research (1968) *67/R/CA/C/21 Levels and Forms of N for Beans - Winter Wheat ; Yields Of The Field Experiments 1967*, pp 189 - 190 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/21.1

LEVELS AND FORMS OF N FOR BEANS

(CA/W)

Levels and forms of N for beans followed by wheat, Great Knott II 1967, the second year - winter wheat.

Design: 3 x 3 x 3 in 3 blocks of 9 plots, plus 3 extra plots per block.

Area of each plot: 0.0193. Area harvested: 0.0129.

Treatments: All combinations of:-

1. Nitrogen to winter wheat 1967: None (N0), 0.5 (N1), 1.0 (N2) cwt N as 'Nitro-Chalk'.

Treatments to beans 1966:-

2. Forms of nitrogen: Ammonium nitrate (A), nitrate of soda (N), sulphate of ammonia (S).
3. Levels of N: None (R0), 1 (R1), 2 (R2), 3 (R3) cwt N broadcast.

Additional plots: To wheat 1967 N0, N1 and N2 as above to plots receiving no nitrogen in 1966.

Basal applications: 340 lb (0:14:28) combine drilled. Weedkiller: Dicamba at 1.28 oz and MCPA at 1.13 lb a.e. in 32 gals.

Cultivations, etc.: Ploughed: Sept 29, 1966. Seed drilled at 180 lb: Oct 29. 'Nitro-Chalk' applied: Apr 17, 1967. Sprayed: Apr 29. Combine harvested: Aug 30. Variety: Cappelle. Previous crops: Barley 1965, spring beans 1966.

NOTE: For the previous year's results see 'Results' 66/C/28.

Standard error per plot.

Grain: 4.24 or 8.0% (9 d.f.)

67/C/21.2

SUMMARY OF RESULTS

GRAIN

	A	N	S	R1	R2	R3	Mean
		(±2.45)			(±2.45)		(±1.41)
NO	47.7	46.4	44.3	38.6	47.1	52.7	46.1
N1	53.4	54.8	57.2	55.4	54.5	55.5	55.1
N2	56.5	57.7	56.1	60.0	57.8	52.5	56.8
					(±2.45)		
		A		53.1	51.4	53.1	52.5
		N		51.5	54.4	52.9	53.0
		S		49.4	53.6	54.7	52.5
Mean (±1.41)				51.3	53.1	53.6	52.7

Plots receiving no nitrogen 1966

NO	N1	N2
40.5	51.9	56.8
	(±2.45)	

General mean: 51.9

Mean D.M. %: 84.9