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66/R/CA/C/28 Levels and Forms of N - Spring Beans

Rothamsted Research

Rothamsted Research (1967) *66/R/CA/C/28 Levels and Forms of N - Spring Beans* ; Yields Of The Field Experiments 1966, pp 223 - 224 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/C/28.1

SPRING BEANS

(CA/Be)

Rates and forms of N for beans followed by wheat - Great Knott II 1966, the first year.

Design: 3 randomised blocks of 12 plots.

Area of each plot: 0.0193. Area harvested: 0.0121.

Treatments: None (3 plots per block) and all combinations of:-

1. Forms of nitrogen: Ammonium nitrate (A), nitrate of soda (N), sulphate of ammonia (S).
2. Rates of N: None (NO), 1 (N1), 2 (N2), 3 (N3) cwt N, broadcast.

Basal applications: 360 lb (0:14:28) placement drilled.

Insecticide: Demeton-s-methyl (Metasystox at 12 fluid oz in 37 gals).

Cultivations, etc.: Ploughed: Nov 16, 1965. Seed drilled at 200 lb: Mar 8, 1966. Nitrogen applied: Mar 14. Insecticide applied: June 14. Combine harvested: Sept 23. Variety: Pedigree Tick. Previous crops: Winter wheat and barley 1964, barley 1965.

NOTE: Plant samples were taken for nodulation counts and grain samples for 1000 grain weight and % N.

Standard error per plot.

Grain: 3.00 or 7.3% (21 d.f.)

66/c/28.2

SUMMARY OF RESULTS

GRAIN

	NO	N1	N2	N3	Mean
		(±1.73)			(±1.00)
A		40.2	42.4	42.6	41.7
N		41.3	42.6	42.3	42.1
S		39.3	39.5	43.9	40.9
Mean (±1.00)	39.8	40.3	41.5	42.9	41.1*

* General mean

Mean D.M. %: 75.8