

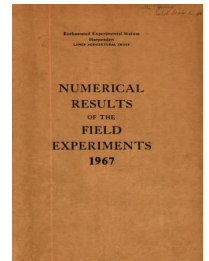
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Yields of the Field Experiments 1967

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67/R/CJ/C/36 Levels and Placement of N - Spring Beans

Rothamsted Research

Rothamsted Research (1968) *67/R/CJ/C/36 Levels and Placement of N - Spring Beans* ; Yields Of The Field Experiments 1967, pp 241 - 242 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/36.1

SPRING BEANS

(CJ)

Levels and placement of N - Long Hoos III 1967, the first year.

Design: 3 randomised blocks of 9 plots.

Area of each plot: 0.0202. Area harvested: 0.0127.

Treatments: No nitrogen (0) (3 plots per block) together with all combinations of:-

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 (N1), 2 (N2), 3 (N3) cwt N.

Basal applications: Manures: PK: 0.38 cwt P2O5, 0.38 cwt K2O.

Weedkiller: Simazine at 1 lb in 32 gals. Insecticide:

Demeton-s-methyl (Metasystox at 12 fluid oz in 37 gals and at 12 fluid oz in 3 gals).

Cultivations, etc.: Ground chalk applied at 28 cwt: Sept 16 - 17, 1966.

Ploughed: Sept 22. Ground chalk applied at 50 cwt: Jan 7, 1967.

Ploughed second time: Jan 13. Seed drilled at 200 lb: Mar 17.

Weedkiller applied: Mar 18. 'Nitro-Chalk' broadcast: Mar 22.

Insecticide applied: June 14, July 11 (the second spray by fixed-wing aircraft). Combine harvested: Sept 1. Variety: Tarvin.

Previous crops: Potatoes 1965, spring wheat 1966.

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

Standard error per plot.

Grain: 1.34 or 3.7% (16 d.f.)

67/C/36.2

SUMMARY OF RESULTS

GRAIN

	O	B	P	Mean
		(± 0.78)		(± 0.55)
N1		36.8	35.1	36.0
N2		37.6	35.0	36.3
N3		37.7	35.7	36.7
Mean (± 0.45)	35.8	37.4	35.3	36.1*

Mean D.M. %: 77.4

* General mean