

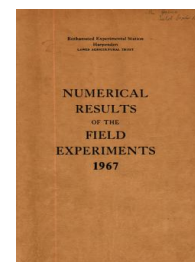
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1967

[Full Table of Content](#)



---

### 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 P<sub>2</sub>O<sub>5</sub>, 0.38 cwt K<sub>2</sub>O.

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