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Yields of the Field Experiments 1967

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67/W/WCL/C/39 Levels of N - Spring Beans

Rothamsted Research

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67/C/39

SPRING BEANS

(WCL)

Levels of N for beans followed by wheat Woburn Lansome N.W. 1967, the first year.

Design: 3 blocks of 4 plots.

Area of each plot: 0.0242. Area harvested: 0.0121.

Treatments:

1. Levels of N: None (N0), 1.0 (N1), 2.0 (N2), 3.0 cwt N (N3) as 'Nitro-Chalk'.

Basal applications: 360 lb (0:14:28). Weedkiller: Simazine at 0.75 lb in 30 gals. Insecticide: Demeton-s-methyl twice, first by tractor sprayer, metasystox at 12 fluid oz in 30 gals - second by fixed-wing aircraft, metasystox at 12 fluid oz in 2.5 gals.

Cultivations, etc.: Ploughed: Oct 20, 1966. Ground chalk applied at 56 cwt: Jan 4, 1967. Deep-tine cultivated: Feb 3. 'Nitro-Chalk' applied, PK fertilizer applied, seed drilled at 200 lb: Feb 15. Weedkiller applied: Feb 24. Insecticide applied: June 9 and July 13. Combine harvested: Aug 24. Variety: Tarvin. Previous crops: Fallow 1965, barley 1966.

NOTE: Samples were taken for nodule counts, 1000-corn weight and percentage nitrogen.

Standard error per plot.

Grain: 5.26 or 18.4% (6 d.f.)

SUMMARY OF RESULTS

GRAIN				
N0	N1	N2	N3	Mean
	(±3.03)			
27.8	30.3	30.2	26.1	28.6

Mean D.M. %: 81.2