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Yields of the Field Experiments 1967

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67/R/RBE/101/DC/1 Spring Beans - *Rhizobium* Strains

Rothamsted Research

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67/Dc/1.1

SPRING BEANS

(RBe 101)

Rhizobium strains - Long Hoos III 1967.

Design: 4 randomised blocks of 4 plots.

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

Treatments: Seed uninoculated (R0), inoculated with Rhizobium strain 1027 (R1), strain CZS (R2), strain 1007 (R3).

Basal applications: 360 lb (0:14:28) placement drilled. Weedkiller: Simazine at 1 lb a.i. in 32 gals. Insecticide: Demeton-s-methyl on two occasions at 3 oz in 37 gals, and at 3 oz in 3 gals by fixed-wing aircraft.

Cultivations, etc.: Ploughed: Sept 22, 1966. Ground chalk applied at 50 cwt: Jan 7, 1967. Ploughed second time: Jan 13. Seed drilled at 200 lb: Mar 16. Simazine applied: Mar 18. Insecticide applied: June 14 and July 11. Combine harvested: Sept 1. Variety: Tarvin. Previous crops: Potatoes 1965, spring wheat 1966.

NOTE: Counts of Rhizobium leguminosarum in the soil were made in March before sowing and from the rhizosphere and soil of selected plots in May, using hairy vetch (*Vicia hirsuta*). Counts of plants were taken in August.

Standard error per plot.
Grain: 1.43 or 4.2% (9 d.f.)

67/Dc/1.2

SUMMARY OF RESULTS

GRAIN

R0	R1	R2	R3	Mean
34.2	34.9	33.9	34.7	34.4
(±0.71)				

Mean D.M. %: 79.2