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Numerical Results of the Field Experiments 1968

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68/DC/1 the Effect on Yield of Inoculating Beans With Different Strains of *Rhizobium*

Rothamsted Research

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68/Dc/1.1

SPRING BEANS

(RBe 101 and WBe 101)

The effect on yield of inoculating beans with different strains of *Rhizobium leguminosarum* - Rothamsted (R) Summerdells II and Woburn (W) Roadpiece 1968.

Design: 4 randomised blocks of 6 plots.

Area of each plot: 0.0202. Area harvested: Summerdell II (R) - 0.0152
Roadpiece (W) - 0.0127.

Treatments: Seed inoculum (*Rhizobium leguminosarum*):-

None	(0)
Strain 1013	(1)
Strain 1026	(2)
Strain 1027	(3)
Strain 1034	(4)
Strain VSP	(5)

Basal applications: 360 lb (0:14:28) placement drilled. Weedkiller:
Simazine at 1 lb in 33 gals. Roadpiece (W): Insecticide:
Demeton-s-methyl at 3.4 oz in 37 gals.

Cultivations, etc.:

Summerdells II (R): Ploughed: 26 Sept, 1967. Seed drilled at 200 lb: 7 Mar, 1968. Weedkiller applied: 8 Mar. Combine harvested: 12 Sept. Variety: Tarvin. Previous crops: Fallow 1966, winter wheat 1967.

Roadpiece (W): Ploughed: 9 Nov, 1967. Seed drilled at 200 lb, weedkiller applied: 1 Mar, 1968. Insecticide applied: 1 June. Combine harvested: 13 Sept. Variety: Tarvin. Previous crops: Barley 1966, spring wheat 1967.

NOTE: Counts of *Rhizobium leguminosarum* in soil were made in March before sowing.

Standard errors per plot. Grain:

Summerdells II (R):	1.21 or 4.8% (15 d.f.)
Roadpiece (W):	1.92 or 6.9% (15 d.f.)

68/Dc/1.2

SUMMARY OF RESULTS

GRAIN

0	1	2	3	4	5	Mean
SUMMERDELLS II (R)						
25.6	24.9	26.0	24.8	25.7	23.9	25.2
(±0.61)						
ROADPIECE (W)						
27.3	27.1	27.6	29.8	28.5	27.3	27.9
(±0.96)						

Mean D.M. %: Summerdells II (R): 79.4

Roadpiece (W): 76.6