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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

Rothamsted Research (1970) *68/DC/1 the Effect on Yield of Inoculating Beans With Different Strains of Rhizobium* ; Numerical Results Of The Field Experiments 1968, pp 323 - 324 - DOI:
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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