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83/R/BE/16 Seed Rates and Plant Health - S. Beans

Rothamsted Research

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83/R/BE/16

SPRING BEANS

SEED RATES AND PLANT HEALTH

Object: To study the effects of three seed rates and two standards of plant health on the yield of s. beans - Long Hoos V 2.

Sponsors: J. McEwen, D.P. Yeoman.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.40 x 3.00.

Treatments: All combinations of:-

1. POPULATN Plant populations in thousands per hectare:

| | Target population | Population achieved |
|---|-------------------|---------------------|
| 2 | 200,000 | 140,000 |
| 4 | 400,000 | 270,000 |
| 6 | 600,000 | 350,000 |

2. PATHCONT Pest and pathogen control:

STANDARD Pirimicarb at 0.14 kg in 340 l on 13 June, 1983

ENHANCED Permethrin at 0.15 kg in 220 l on 4 May and 24 May
Pirimicarb at 0.14 kg in 340 l on 13 June
Propiconazole at 0.12 kg in 340 l on 26 July
Benomyl at 0.5 kg in 340 l on 7 July

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg.
Trietazine at 1.1 kg with simazine at 0.16 kg in 220 l.

Seed: Minden.

Cultivations, etc.: - Muriate of potash applied: 16 Sept, 1982. Chalk applied: 28 Sept. Ploughed: 26 Nov. Spring-tine cultivated twice: 10 and 11 Mar, 1983. Seed sown: 11 Mar. Weedkillers applied: 17 Mar. Harvested by hand: 15 Aug. Previous crops: Potatoes 1981, s. barley 1982.

NOTE: Plant counts were made after establishment and components of yield were measured at maturity.

83/R/BE/16

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

| PATHCONT POPULATN | STANDARD | ENHANCED | MEAN |
|----------------------|----------|----------|------|
| 2 | 2.06 | 2.08 | 2.07 |
| 4 | 2.71 | 2.72 | 2.71 |
| 6 | 2.71 | 3.25 | 2.98 |
| MEAN | 2.49 | 2.68 | 2.59 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | POPULATN | PATHCONT | POPULATN PATHCONT |
|-------|----------|----------|----------------------|
| ----- | ----- | ----- | ----- |
| SED | 0.165 | 0.135 | 0.234 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|----------|----|-------|------|
| BLOCK.WP | 15 | 0.330 | 12.8 |

GRAIN MEAN DM% 88.8

PLOT AREA HARVESTED 0.00015