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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
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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