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85/R/BE/10 Seed Rates and Plant Health - S. Beans

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85/R/BE/10

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 VI/VII 4.

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 per hectare:

	Target population	Mean population achieved
200	200,000	170,000
400	400,000	350,000
600	600,000	480,000

2. PATHCONT Pest and pathogen control:

STANDARD	Pirimicarb at 0.14 kg in 220 l on 1 July, 1985
ENHANCED	Deltamethrin at 0.0075 kg in 220 l on 2 May, 23 May
	Pirimicarb at 0.14 kg in 220 l on 1 July
	Benomyl at 0.56 kg in 220 l on 2 July
	Propiconazole at 0.12 kg in 220 l on 18 July, 22 Aug

Basal applications: Manures: Chalk at 2.9 t. Weedkillers: Trietazine at 1.2 kg with simazine at 0.17 kg and paraquat at 0.40 kg ion in 220 l.

Seed: Minden.

Cultivations, etc.: Chalk applied: 12 Sept, 1984. Ploughed: 12 Nov. Spring-tine cultivated, seed sown: 14 Mar, 1985. Weedkillers applied: 18 Mar. Harvested by hand: 19 Sept. Previous crops: W. wheat 1983 and 1984.

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

85/R/BE/10

GRAIN TONNES/HECTARE

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

PATHCONT POPULATN	STANDARD	ENHANCED	MEAN
200	5.19	5.69	5.44
400	5.01	5.79	5.40
600	4.98	6.05	5.51
MEAN	5.06	5.85	5.45

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

TABLE	POPULATN	PATHCONT	POPULATN PATHCONT
SED	0.241	0.197	0.341

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.482	8.8

GRAIN MEAN DM% 91.0

PLOT AREA HARVESTED 0.00015