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Yields of the Field Experiments 1984

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84/R/BE/15 Seed Rates and Plant Health - S. Beans

Rothamsted Research

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84/R/BE/15

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 III 0 and E.

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	210,000
400	400,000	420,000
600	600,000	560,000

2. PATHCONT Pest and pathogen control:

STANDARD Pirimicarb at 0.14 kg in 220 l on 6 July, 1984

ENHANCED Permethrin at 0.15 kg in 220 l on 1 May
Cypermethrin at 0.025 kg in 220 l on 16 May, 6 June
Pirimicarb at 0.14 kg in 220 l on 4 June, 6 July
Benomyl at 0.56 kg in 220 l on 6 July, 14 Aug
Propiconazole at 0.12 kg in 220 l on 1 Aug

Basal applications: Weedkillers: Trietazine at 0.95 kg with simazine at 0.14 kg in 220 l.

Seed: Minden.

Cultivations, etc.:- Ploughed: 7 Dec, 1983. Spring-tine cultivated, seed sown: 20 Mar, 1984. Weedkillers applied: 2 Apr. Harvested by hand: 23 Aug. Previous crops: S. barley 1982 and 1983.

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

84/R/BE/15

GRAIN TONNES/HECTARE

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

PATHCONT POPULATN	STANDARD	ENHANCED	MEAN
200	3.99	4.10	4.05
400	3.97	4.30	4.14
600	4.08	4.55	4.32
MEAN	4.01	4.32	4.17

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

TABLE	POPULATN	PATHCONT	POPULATN PATHCONT
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SED	0.163	0.133	0.231

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.326	7.8
GRAIN MEAN DM%	88.8		
PLOT AREA HARVESTED	0.00015		