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Yields of the Field Experiments 1981

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81/R/BE/16 Varieties - S. Beans

Rothamsted Research

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81/R/BE/16

SPRING BEANS

VARIETIES

Object: To compare agronomic characters and yields of one selection of a red-seeded field bean with four white-seeded varieties - Long Hoos III 6.

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

Design: 2 randomised blocks of 10 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments: All combinations of:-

1. VARIETY Varieties:

BLAZE
HERRA
MINDEN
RED TICK
WEIRBOON

2. PATHCONT Pathogen-control before flowering:

NONE None
FULL Permethrin at 0.15 kg in 340 l on 29 May, 12 June,
29 June, 1981

NOTE: Seed was sown by hand in rows 51 cm apart, seed spaced 5 cm apart in the row.

Basal applications: Manures: Chalk at 2.9 t. Weedkillers: Glyphosate at 1.5 l in 340 l. Trietazine and simazine (as 'Remtal SC' at 3.0 l) in 340 l. Insecticide: Pirimicarb at 0.14 kg in 340 l on two occasions.

Cultivations, etc.:- Glyphosate applied: 2 Oct, 1980. Chalk applied: 21 Nov. Ploughed: 12 Dec. Spring-tine cultivated, power harrowed, seed sown: 9 Apr, 1981. Trietazine and simazine applied: 22 Apr. Pirimicarb applied: 15 June, 15 July. Harvested by hand: 8 Sept. Previous crops: W. wheat 1979, s. barley 1980.

NOTE: Plant counts were made after establishment. Components of yield were measured at maturity. N content of grain was measured.

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GRAIN TONNES/HECTARE

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

PATHCONT VARIETY	NONE	FULL	MEAN
BLAZE	4.90	5.03	4.96
HERRA	4.27	4.99	4.63
MINDEN	4.78	5.00	4.89
RED TICK	4.37	4.94	4.65
WEIRBOON	4.86	5.51	5.19
MEAN	4.63	5.09	4.86

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

TABLE	VARIETY	PATHCONT	VARIETY PATHCONT
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SED	0.310	0.196	0.439

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.439	9.0

GRAIN MEAN DM% 83.6

PLOT AREA HARVESTED 0.00015