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Yields of the Field Experiments 1983

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83/R/BE/14 Varieties - S. Beans

Rothamsted Research

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83/R/BE/14

SPRING BEANS

VARIETIES

Object: To compare agronomic characters and yields of six varieties of s. beans - Long Hoos IV 5.

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

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

VARIETY Varieties:

ALFRED
BLAZE
EXELLE
MINDEN
NARBOR
TIGER

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. Muriate of potash at 520 kg. Weedkillers: Trietazine at 1.1 kg with simazine at 0.16 kg in 220 l. Fungicides: Benomyl at 0.56 kg in 340 l; propiconazole at 0.12 kg in 340 l on three occasions, once with pirimicarb. Insecticides: Pirimicarb at 0.14 kg on two occasions, in 340 l on the first, with propiconazole on the second; permethrin at 0.15 kg in 340 l on two occasions.

Cultivations, etc.: - Muriate of potash applied: 16 Sept, 1982. Chalk applied: 30 Sept. Ploughed: 11 Oct. Spring-tine cultivated twice, seed sown: 15 Mar, 1983. Weedkillers applied: 17 Mar. Permethrin applied: 4 May, 20 May. Pirimicarb applied: 13 June. Benomyl applied: 5 July. Pirimicarb with propiconazole applied: 12 July. Propiconazole applied: 18 July, 26 July. Harvested by hand: 15 Aug. Previous crops: Potatoes 1981, s. barley 1982.

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

83/R/BE/14

GRAIN TONNES/HECTARE

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

VARIETY	ALFRED	BLAZE	EXELLE	MINDEN	NARBOR	TIGER	MEAN
	3.26	3.33	3.28	3.42	3.28	3.45	3.34

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

TABLE	VARIETY
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SED	0.128

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.181	5.4

GRAIN MEAN DM% 89.8

PLOT AREA HARVESTED 0.00015