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Yields of the Field Experiments 1984

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

Rothamsted Research

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84/R/BE/14

SPRING BEANS

VARIETIES

Object: To compare agronomic characters and yields of four varieties of s. beans - Long Hoos III 7.

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

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

VARIETY Varieties:

ALFRED
MINDEN
NABOR
TROY

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 0.72 kg in 200 l; trietazine at 0.95 kg with simazine at 0.14 kg in 220 l. Fungicides: Benomyl at 0.56 kg in 220 l on two occasions, the first with pirimicarb; propiconazole at 0.12 kg in 220 l. Insecticides: Permethrin at 0.15 kg in 220 l; cypermethrin at 0.025 kg in 220 l on two occasions; pirimicarb at 0.14 kg in 220 l on three occasions, the second with the benomyl.

Cultivations, etc.: Chalk applied: 26 Aug, 1983. Glyphosate applied: 16 Dec. Ploughed: 30 Jan, 1984. Power harrowed, seed sown: 16 Mar. Trietazine and simazine applied: 30 Mar. Permethrin applied: 1 May. Cypermethrin applied: 16 May, 6 June. Pirimicarb applied: 4 June, 26 July. Pirimicarb with benomyl applied: 6 July. Propiconazole applied: 1 Aug. Benomyl applied: 14 Aug. Harvested by hand: 24 Aug. Previous crops: S. wheat 1982, mixed cereals 1983.

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

84/R/BE/14

GRAIN TONNES/HECTARE

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

VARIETY	ALFRED	MINDEN	NABOR	TROY	MEAN
	4.47	4.31	4.60	4.82	4.55

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

TABLE	VARIETY
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SED	0.235

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

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.333	7.3

GRAIN MEAN DM% 87.7

PLOT AREA HARVESTED 0.00015