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85/R/BE/4 Varieties - W. Beans

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85/R/BE/4

WINTER BEANS

VARIETIES

Object: To compare agronomic characters and yields of three varieties of w. beans sown at two populations - Long Hoos VI/VII 1.

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

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments: All combinations of:-

1. VARIETY Varieties:

BANNER	Banner
BEAGLE	Maris Beagle
BOURDON	Bourdon

2. POPULATN Plant populations per hectare:

	Target population	Mean population achieved
130	130,000	120,000
390	390,000	360,000

NOTE: Seed was sown by hand in rows 51 cm apart.

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg. Weedkillers: Glyphosate at 1.4 kg in 220 l; trietazine at 1.2 kg with simazine at 0.17 kg in 220 l. Fungicides: Benomyl at 0.56 kg plus chlorothalonil at 1.0 kg applied with the second application of deltamethrin; propiconazole at 0.12 kg in 220 l on two occasions. Insecticides: Deltamethrin at 0.0075 kg in 220 l on two occasions; pirimicarb at 0.14 kg in 220 l.

Cultivations, etc.: - Chalk applied: 11 Sept, 1984. K applied: 25 Sept. Glyphosate applied: 26 Sept. Ploughed: 15 Oct. Spring-tine cultivated twice, seed sown, trietazine and simazine applied: 16 Oct. Deltamethrin applied: 2 May, 1985. Deltamethrin with benomyl and chlorothalonil applied: 22 May. Propiconazole applied: 3 June. Pirimicarb applied: 20 June. Propiconazole applied: 9 July. Harvested by hand: 5 Sept. Previous crops: Potatoes 1983, s. barley 1984.

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

85/R/BE/4

GRAIN TONNES/HECTARE

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

POPULATN VARIETY	130	390	MEAN
BANNER	4.43	5.20	4.81
BEAGLE	5.23	5.03	5.13
BOURDON	5.23	5.48	5.36
MEAN	4.96	5.24	5.10

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

TABLE	VARIETY	POPULATN	VARIETY POPULATN
SED	0.365	0.298	0.515

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.631	12.4

GRAIN MEAN DM% 81.0

PLOT AREA HARVESTED 0.00015