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Yields of the Field Experiments 1986

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Rothamsted Research

Rothamsted Research (1987) *86/R/BE/3 Varieties - W. Beans ;* Yields Of The Field Experiments 1986, pp 239 - 240 **- DOI: https://doi.org/10.23637/ERADOC-1-36**

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86/R/BE/3

WINTER BEANS

VARIETIES

Object: To compare agronomic characters and yields of three varieties of w. beans sown at two populations - Garden Plot 3.

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
BOURDON
PUNCH

2. POPULATN Plant populations per hectare:

	Target population	Mean population achieved
130	130,000	115,000
390	390,000	349,000

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 0.72 kg in 210 l. Trietazine at 1.2 kg and simazine at 0.17 kg in 220 l. Fungicides: Benomyl at 0.56 kg with chlorothalonil at 1.2 kg and the insecticide in 220 l. Insecticide: Deltamethrin at 0.0075 kg in 220 l, on two occasions, with the fungicides on the second occasion.

Cultivations, etc.:- Muriate of potash applied: 23 Sept, 1985. Glyphosate applied: 25 Sept. Deep-tine cultivated: 3 Oct. Chalk applied: 17 Oct. Power harrowed, seed sown by hand, trietazine and simazine applied: 23 Oct. Insecticide applied: 16 May, 1986. Fungicides with insecticide applied: 13 June. Harvested by hand: 10 Sept. Previous crops: Potatoes 1984, fallow 1985.

NOTE: Plant counts were made after establishment and in spring. Components of yield and plant height were measured at maturity. N content of grain was measured.

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86/R/BE/3

GRAIN TONNES/HECTARE

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

POPULATN	130	390	MEAN
VARIETY			
BANNER	3.89	6.07	4.98
BOURDON	2.79	5.87	4.33
PUNCH	2.78	4.69	3.74
MEAN	3.15	5.55	4.35

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

TABLE	VARIETY	POPULATN	VARIETY POPULATN
SED	0.644	0.526	0.911

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	1.115	25.6

GRAIN MEAN DM% 89.9

PLOT AREA HARVESTED 0.00015

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