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Yields of the Field Experiments 1979

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79/R/BE/14 Red Tick Lines - Beans

Rothamsted Research

Rothamsted Research (1980) *79/R/BE/14 Red Tick Lines - Beans* ; Yields Of The Field Experiments 1979, pp 344 - 345 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

79/R/BE/14

SPRING BEANS

RED TICK LINES

Object: To compare agronomic characters and yields of two selections of red-seeded field beans, open-pollinated for one or two years following self-pollination for five years, with four white-seeded varieties - Long Hoos V 4.

Sponsor: J. McEwen.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

VARIETY	Varieties:-
RT1 OP1	Red tick 1, open-pollinated in 1978 only
RT1 OP2	Red tick 1, open-pollinated in 1977 and 1978
RT3 OP1	Red tick 3, open-pollinated in 1978 only
RT3 OP2	Red tick 3, open-pollinated in 1977 and 1978
BL	Maris Blaze (white-seeded)
HE	Herra (white-seeded)
MI	Minden (white-seeded)
TO	Topless determinant (white seeded ex P.B.I. Cambridge)

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: Trietazine and simazine (as 'Remtal SC' at 3.0 kg) in 340 l. Insecticides: Permethrin at 0.15 kg in 340 l, pirimicarb at 0.14 kg in 340 l.

Cultivations, etc.:- Chalk applied: 31 Oct, 1978. Ploughed: 22 Jan, 1979. Spring-tine cultivated and rolled: 18 Apr. Seed sown: 19 Apr. Weedkillers applied: 1 May. Permethrin applied twice: 26 June, 4 July. Pirimicarb applied twice: 9 and 26 July. Harvested by hand: 13 Sept. Previous cropping: Potatoes 1977, barley 1978.

NOTE: Plant counts were made after establishment and again before harvest. Components of yield were measured at harvest. N in grain was measured.

79/R/BE/14

GRAIN TONNES/HECTARE

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

VARIETY	
RT1 OP1	3.94
RT1 OP2	4.41
RT3 OP1	4.16
RT3 OP2	4.12
BL	4.37
HE	4.58
MI	4.90
TO	4.04
MEAN	4.32

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

TABLE	VARIETY
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SED	0.227

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.278	6.4
GRAIN MEAN DM%	88.0		
PLOT AREA HARVESTED	0.00015		