

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1979

[Full Table of Content](#)



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
-----	-----
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