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Yields of the Field Experiments 1977

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77/R/BE/11 Red Tick Lines - Beans

Rothamsted Research

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77/R/BE/11

SPRING BEANS

RED TICK LINES

Object: To compare agronomic characters and yields of several lines of red-seeded field beans with two standard white varieties - Long Hoos IV 6.

Sponsor: J. McEwen.

Design: 3 randomised blocks of 14 plots.

Whole plot dimensions: 2.03 x 2.13.

Treatments:

VARIETY Varieties:

RT1-RT11	Eleven red-seeded lines selected at Rothamsted
RT C	Bulk seed from red-seeded lines selected at P.B.I. Cambridge
BLAZE	Maris Blaze (white-seeded)
MINDEN	Minden (white-seeded)

NOTE: Seed was sown by hand in rows 61 cm apart, seed spaced 5 cm apart in the row.

Basal applications: Manures: (0:14:28) at 940 kg. Chalk at 2.9 t. Insecticide: Permethrin at 0.15 kg in 340 l on two occasions.

Cultivations, etc.: - PK applied: 18 Nov, 1976. Chalk applied: 3 Dec. Ploughed: 14 Dec-18 Jan, 1977. Power harrowed: 5 Apr. Seed sown: 6 Apr. Insecticide applied: 18 May, 21 June. Harvested by hand: 11 Oct. Previous crops: Wheat 1975, swedes 1976.

NOTE: Plant counts were made after establishment and again before harvest. Flowering dates were recorded. Components of yield were measured before harvest.

77/R/BE/11

GRAIN TONNES/HECTARE

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

VARIETY	
RT1	4.01
RT2	3.98
RT3	3.94
RT4	4.03
RT5	3.98
RT6	3.87
RT7	4.19
RT8	4.25
RT9	4.08
RT10	3.97
RT11	3.76
RT C	3.61
BLAZE	4.37
MINDEN	3.89
MEAN	3.99

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

TABLE	VARIETY
SED	0.249

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

STRATUM	DF	SE	CV%
BLOCK.WP	26	0.305	7.6
GRAIN MEAN DM%	75.0		
PLOT AREA HARVESTED	0.00015		