

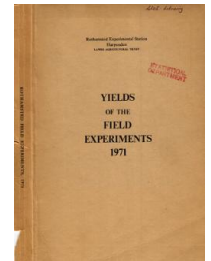
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71/R/BE/7 Row Spacing, Drills and Weedkillers - Beans

Rothamsted Research

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71/R/BE/7

SPRING BEANS

ROW SPACING, DRILLS AND WEEDKILLERS

Object: To compare the performance of different drills, sowing at different row spacings and depths and to compare the effects of different weedkillers - Long Hoos I and II.

Design: Four randomised blocks of 14 plots.

Whole plot dimensions: 4.27 x 15.2. Area harvested: 0.00488.

Treatments: All combinations of:-

1. Drills and row spacing:-

Drills	Distance apart of rows		
	cm	(inches)	
Smythe:-	53.3	(21)	(S21)
Fiona (NIAE):-	17.8	(7)	(F7)
	35.6	(14)	(F14)
	53.3	(21)	(F21)
New Tume:-	15.2	(6)	(NT6)
	30.5	(12)	(NT12)
Old Tume:-	25.4	(10)	(OT10)

2. Weedkillers: Dinoseb acetate at 2.7 kg in 426 l (D), simazine at 1.12 kg in 225 l (S).

Basal applications: Ground chalk at 7530 kg. 405 kg (0:14:28) applied by Tume drill across the plots. Insecticide: Demeton-s-methyl at 245 g in 438 l.

Cultivations, etc.: Chalk applied: 7 Sept, 1970. Ploughed: 29 Sept. Basal PK applied: 24 Feb, 1971. Seed drilled at 224 kg: 10 - 11 Mar. Simazine applied: 13 Mar. Dinoseb acetate applied: 4 May. Insecticide applied: 1 July. Combine harvested: 9 Sept. Variety: Maris Bead. Previous crops: Winter wheat and barley 1969, spring wheat 1970.

Standard error per plot.

Grain, tonnes/hectare: 0.159 or 8.3% (39 d.f.)

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SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

	S21	F7	F14	F21	NT6	NT12	OT10	Mean
	(±0.079)							(±0.030)
D	2.07	1.91	1.75	1.84	2.12	1.99	2.14	1.97
S	1.96	1.82	1.73	1.71	1.91	1.97	1.95	1.86
Mean (±0.056)	2.01	1.86	1.74	1.78	2.01	1.98	2.04	1.92

Mean D.M. %: 86.0