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72/R/BE/1 Spring Beans Effects of Mass Selection

Rothamsted Research

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72/R/BE/1

SPRING BEANS

EFFECTS OF MASS SELECTION

Object: To study the effects on yield of mass selecting a population of beans on the basis of number of pods per stem - Long Hoos V 5.

Sponsor: J. McEwen.

Design: 6 randomised blocks of 5 plots.

Whole plot dimensions: 2.03 x 4.27. Area harvested: 0.00019.

Treatments (T): Unselected (0) and mass selections from 1971 crop on the basis of number of pods per stem at harvest 1971:-

Pods per stem:-	1 - 4	(1)
	5 - 8	(5)
	9 - 12	(9)
	More than 12	(13)

Basal applications: 1570 kg (0:14:28). Weedkiller: Simazine at 0.84 kg in 340 l. Insecticide: Demeton-s-methyl at 0.25 kg in 340 l and later at 1.0 kg in 340 l.

Seed: Maris Bead sown at 170 kg.

Cultivations, etc.: Basal PK applied: 30 Sept, 1971. Ploughed: 6 Oct. Rotary cultivated: 16 Mar, 1972. Seed drilled: 17 Mar. Weedkiller applied: 21 Mar. Insecticide applied: 26 June and 19 July. Hand harvested: 29 Sept. Previous crops: Barley 1970, fallow 1971.

NOTE: Counts were made of number of stems and pods. 1000 grain weights were measured.

Standard error per plot.

Grain, tonnes/hectare: 0.479 or 9.7% (20 d.f.)

72/R/BE/1

TABLE OF MEANS

GRAIN: TONNES/HECTARE

					T	
0	1	5	9	13		Mean
4.85	4.97	5.06	4.77	5.03		4.94

STANDARD ERROR OF DIFFERENCES

T 0.277

Mean D.M. %: 81.5