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Numerical Results of the Field Experiments 1970

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70/R/BE/5 Spring Beans Photosynthetic Zones

Rothamsted Research

Rothamsted Research (1971) *70/R/BE/5 Spring Beans Photosynthetic Zones* ; Numerical Results Of The Field Experiments 1970, pp 274 - 275 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

SPRING BEANS

(70/R/BE/5)

Photosynthetic zones, Fosters O and E III 1970.

Design: 3 blocks of 8 plots, randomisation restricted.

Area of each plot: 0.0022. Area harvested: 0.0005.

Treatments: All combinations of:-

1. Defoliation in Zone A: None (O), leaves removed when first flower buds formed (A).
2. Defoliation in Zone B: None (O), leaves removed when first flower buds formed on 9th flowering node (B).
3. Decapitation of Zone C: None (O), decapitation (C) on 7 - 8 July.

where (1) Zone A is the section of stem (about 9 nodes) below the first flowering node.

(2) Zone B is the section of stem with the 9 nodes which flower first.

(3) Zone C is the section of stem above the 9th flowering node.

Basal applications: 360 lb (0:14:28) broadcast and rotary cultivated in before sowing. Weedkiller: Simazine at 1 lb in 35 gals. Insecticide: Demeton-s-methyl at 3.5 oz in 35 gals on 2 occasions.

Cultivations, etc.: Ploughed: 8 Oct - 3 Nov, 1969. Basal PK applied: 16 Apr, 1970. Rotary cultivated, seed drilled at 200 lb: 18 Apr. Weedkiller applied: 24 Apr. Insecticide applied: 17 June. Zone A defoliated: 22 June. Zone B defoliated: 6 July. Zone C decapitated: 7 - 8 July. Insecticide applied: 20 July. Harvested by hand: 7 Sept. Variety: Tarvin. Previous crops: Barley 1968 and 1969.

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

Standard error per plot.

Grain, cwt: 2.62 or 20.2% (14 d.f.)

70/R/BE/5

SUMMARY OF RESULTS

GRAIN: CWT

	O	B	O	C	Mean
	(±1.07)		(±1.07)		(±0.76)
O	17.4	13.7	16.0	15.0	15.5
A	16.0	4.9	12.0	8.9	10.4
			(±1.07)		(±0.76)
		O	17.2	16.2	16.7
		B	10.8	7.7	9.3
Mean (±0.76)			14.0	11.9	13.0

	O	B	O	A	B
	(±1.51)				
O	18.1	13.9	16.4	7.7	
C	16.7	13.4	15.7	2.0	

Mean D.M. %: 81.4