

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

# Numerical Results of the Field Experiments 1970

[Full Table of Content](#)



## 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