

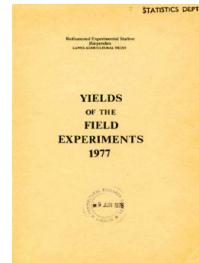
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77/R/BE/1 Crop Density and Chocolate Spot - Beans

Rothamsted Research

Rothamsted Research (1978) 77/R/BE/1 *Crop Density and Chocolate Spot - Beans* ; Yields Of The Field Experiments 1977, pp 372 - 374 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

77/R/BE/1

WINTER BEANS

CROP DENSITY AND CHOCOLATE SPOT

Object: To study the effects of irrigation, plant density and benomyl on Chocolate Spot (*Botrytis spp.*) and yield of winter beans - Fosters Corner.

Sponsor: A. Bainbridge, M.E. Finney.

Design: 2 randomised blocks of 12 plots (with IRRIGTN on blocks)

Whole plot dimensions: 5.33 x 9.14.

Treatments: All combinations of:-

Blocks

1. IRRIGTN Irrigation:

NONE	None
FULL	Full (100 mm)

Plots

2. FUNGTIME Times of applying benomyl (at 0.56 kg in 340 l on each occasion):

NEVER	Never
ONCE	Once, on 30 May, 1977
TWICE	Twice, on 30 May and 21 June

3. SEEDRATE Seed rates (kg):

126
378

4. SPACING Spacing between rows:

18 CM	18 cm (7 inches)
53 CM	53 cm (21 inches)

NOTE: 25 mm of irrigation to IRRIGTN FULL plots was supplied on each of the following dates:- 27 June, 12 July, 15 July, 22 July.

Basal applications: Weedkiller: Simazine at 1.1 kg in 220 l.

Seed: Throws MS.

Cultivations, etc.: Deep-tine cultivated: 31 Aug, 1976, 3 Sept. Heavy spring-tine cultivated: 21, 22 Sept, 3 Nov. Seed sown: 3 Nov. Spring-tine cultivated: 4 Nov. Weedkiller applied: 15 Apr, 1977. Combine harvested: 14 Sept. Previous crops: Spring wheat 1975, barley 1976.

NOTE: Counts were made of seedling emergence, percentage leaf area affected by *Botrytis spp.*, stems per row, pods per stem and leaf roll virus infected plants.

77/R/BE/1

GRAIN TONNES/HECTARE

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

FUNGTIME IRRIGTN	NEVER	ONCE	TWICE	MEAN
NONE	3.55	3.90	4.42	3.96
FULL	3.15	3.82	3.21	3.39
MEAN	3.35	3.86	3.81	3.67
SEEDRATE IRRIGTN	126	378	MEAN	
NONE	3.49	4.43	3.96	
FULL	3.21	3.57	3.39	
MEAN	3.35	4.00	3.67	
SEEDRATE FUNGTIME	126	378	MEAN	
NEVER	3.10	3.61	3.35	
ONCE	3.62	4.09	3.86	
TWICE	3.33	4.30	3.81	
MEAN	3.35	4.00	3.67	
SPACING IRRIGTN	18 CM	53 CM	MEAN	
NONE	3.81	4.10	3.96	
FULL	3.07	3.71	3.39	
MEAN	3.44	3.91	3.67	
SPACING FUNGTIME	18 CM	53 CM	MEAN	
NEVER	3.27	3.43	3.35	
ONCE	3.51	4.21	3.86	
TWICE	3.55	4.08	3.81	
MEAN	3.44	3.91	3.67	
SPACING SEEDRATE	18 CM	53 CM	MEAN	
126	3.02	3.68	3.35	
378	3.86	4.14	4.00	
MEAN	3.44	3.91	3.67	

77/R/BE/1

GRAIN TONNES/HECTARE

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

FUNGTIME	NEVER	126	378	ONCE	126	378	TWICE	126	378
SEEDRATE									
IRRIGTN									
NONE	3.17		3.93		3.44		4.36		3.86
FULL	3.02		3.29		3.81		3.83		2.81
FUNGTIME	NEVER	126	378	ONCE	126	378	TWICE	126	378
SPACING		18 CM	53 CM		18 CM		53 CM		18 CM
IRRIGTN									
NONE	3.40		3.70		3.88		3.91		4.15
FULL	3.15		3.16		3.13		4.50		2.94
SEEDRATE		126			378				
SPACING		18 CM	53 CM		18 CM		53 CM		
IRRIGTN									
NONE	3.25		3.72		4.37		4.48		
FULL	2.79		3.64		3.36		3.79		
SEEDRATE		126			378				
SPACING		18 CM	53 CM		18 CM		53 CM		
FUNGTIME									
NEVER	2.89		3.31		3.66		3.56		
ONCE	3.20		4.04		3.81		4.38		
TWICE	2.98		3.69		4.12		4.47		
SEEDRATE			126			378			
SPACING			18 CM		53 CM		18 CM		53 CM
IRRIGTN									
NONE	NEVER		2.81		3.52		3.99		3.88
	ONCE		3.61		3.26		4.15		4.57
	TWICE		3.34		4.38		4.97		5.01
FULL	NEVER		2.96		3.09		3.33		3.24
	ONCE		2.80		4.82		3.47		4.19
	TWICE		2.61		3.00		3.27		3.94

GRAIN MEAN DM% 75.7

SUB PLOT AREA HARVESTED 0.00279