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Yields of the Field Experiments 1975

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75/ R/BE/1 - Seed Rates, Row Spacing & Fungicides - Beans

Rothamsted Research

Rothamsted Research (1976) 75/ R/BE/1 - *Seed Rates, Row Spacing & Fungicides - Beans* ; Yields Of The Field Experiments 1975, pp 339 - 341 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/BE/1

WINTER BEANS

SEED RATES, ROW SPACINGS AND FUNGICIDES

Object: To study the effects of plant density and fungicides on Chocolate Spot (*Botrytis* spp.) and yield of winter beans - Gt. Knott I.

Sponsor: A. Bainbridge.

Design: 2 randomised blocks of 24 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

1. Fungicides:

	FUNGICIDE
None (4 plots per block)	0
Benomyl (0.56 kg in 340 l)	BENOMYL
RP 26019 (Glycophene at 0.56 kg in 340 l)	RP 26019

2. Seed rates (kg):

	SEEDRATE
126	126
378	378

3. Spacing between rows:

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

NOTE: It was intended to compare applications of fungicides on one and two occasions. Because of exceptionally dry weather and failure of Chocolate Spot to develop, only one application was made.

Basal applications: Manures: FYM at 50 tonnes.

Seed: Throws MS.

Cultivations, etc.: FYM applied: 4 Sept, 1974. Ploughed: 16 Sept.

Spring-tine cultivated: 26 Nov. Seed sown: 27 Nov. Fungicides

applied: 9 May. Combine harvested: 12 Aug. Previous crops:

Winter wheat 1973, barley 1974.

NOTES: (1) Emergence counts were made in spring.

(2) Chocolate Spot assessments were made throughout the season.

75/R/BE/1

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

SEEDRATE	126	378	MEAN
FUNGCIDE			
0	3.80	4.25	4.03
BENOMYL	3.73	4.27	4.00
RP 26019	3.47	4.37	3.92
MEAN	3.74	4.28	4.01

SPACING	18 CM	53 CM	MEAN
FUNGCIDE			
0	4.12	3.93	4.03
BENOMYL	4.21	3.80	4.00
RP 26019	4.30	3.54	3.92
MEAN	4.17	3.84	4.01

SPACING	18 CM	53 CM	MEAN
SEEDRATE			
126	3.97	3.51	3.74
378	4.37	4.18	4.28
MEAN	4.17	3.84	4.01

	SEEDRATE	126	378	
	SPACING	18 CM	53 CM	53 CM
FUNGCIDE				
0		3.98	3.63	4.27
BENOMYL		4.04	3.42	4.38
RP 26019		3.84	3.09	4.76

*** STANDARD ERRORS OF DIFFERENCES OF MEANS ***

TABLE	FUNGCIDE	SEEDRATE	SPACING	FUNGCIDE SEEDRATE
SED	0.116(1) 0.147(2)	0.085	0.085	0.104(3) 0.164(1) 0.207(2)

TABLE	FUNGCIDE SPACING	SEEDRATE SPACING	FUNGCIDE SEEDRATE SPACING
SED	0.104(3) 0.164(1) 0.207(2)	0.120	0.147(3) 0.232(1) 0.293(2)

(1) 0 V BENOMYL OR RP 26019

(2) BENOMYL V RP 26019

(3) 0

75/R/BE/1

GRAIN TONNES/HECTARE

*** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ***

STRATUM	DF	SE	CV%
BLOCK.WP	35	0.293	7.3

GRAIN MEAN DM% 88.6

MEAN PLOT AREA HARVESTED 0.00270