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78/R/BE/1 Control of Chocolate Spot - Beans

Rothamsted Research

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78/R/BE/1

WINTER BEANS

CONTROL OF CHOCOLATE SPOT

Object: To study the effects of irrigation and benomyl on Chocolate Spot (*Botrytis* spp.) and yield of winter beans - Long Hoos I/II.

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

Design: 2 blocks, each a 4 x 4 Latin square (with IRRIGTN on blocks)

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

Blocks

1. IRRIGTN	Irrigation:
NONE	None
FULL	Full (72.5 mm)

Plots

2. BENOMYL	Frequency of applying benomyl (at 0.56 kg in 340 l on each occasion):-
0+0+0+0	Never
0+1+1+0	Twice, on 26 May, 1978 and 16 June
0+1+1+1	Three times, on 26 May, 16 June, 18 July
1+1+1+1	Four times, on 28 Apr, 26 May, 16 June, 18 July

NOTE: IRRIGTN FULL plots were given 12.5 mm of irrigation on each of the following dates: 29 May, 31 May, 14 June, 19 June, 17 July and 10 mm on 25 July.

Basal applications: Manures: Chalk at 7.5 t.

Seed: Throws MS sown at 250 kg.

Cultivations, etc.: - Ploughed: 20 Sept, 1977. Rolled: 3 Oct. Chalk applied: 11 Oct. Heavy spring-tine cultivated: 12 Oct. Rotary harrowed: 13 Oct. Seed sown: 14 Oct. Combine harvested: 19 Sept. Previous crops: Wheat 1976, barley 1977.

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

78/R/BE/1

GRAIN TONNES/HECTARE

IRRIGATN NONE

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

BENOMYL	0+0+0+0	0+1+1+0	0+1+1+1	1+1+1+1	MEAN
	5.82	6.13	6.61	6.74	6.33

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

TABLE	BENOMYL
SED	0.123

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

STRATUM	DF	SE	CV%
ROW.COLUMN	6	0.174	2.8

GRAIN TONNES/HECTARE

IRRIGATN FULL

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

BENOMYL	0+0+0+0	0+1+1+0	0+1+1+1	1+1+1+1	MEAN
	4.65	5.13	5.55	5.82	5.29

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

TABLE	BENOMYL
SED	0.549

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

STRATUM	DF	SE	CV%
ROW.COLUMN	6	0.776	14.7

GRAIN MEAN DM% 84.0

PLOT AREA HARVESTED 0.00279