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

Rothamsted Research

Rothamsted Research (1980) *79/R/BE/1 Control of Chocolate Spot - Beans ; Yields Of The Field Experiments 1979*, pp 319 - 320 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

79/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 - Fosters West.

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

Design: 3 blocks of 2 whole plots split into 4.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

Whole plots

1. IRRIGATN	Irrigation:
NONE	None
APPLIED	Applied (50 mm)

Sub plots

2. BENOMYL	Frequency of applying benomyl (at 1.1 kg in 340 l on each occasion):-
0+0	Never
1+0	Once, on 25 May, 1979
1+1	Twice, on 25 May and 29 June (duplicated)

NOTES: (1) IRRIGATN APPLIED plots were given 12.5 mm of irrigation on each of the following dates: 2 July, 11 July, 16 July, 22 July.

(2) On one of the duplicates of 1+1 the first treatment was not applied until 30 May because the sprayer broke down.

Basal applications: Weedkiller: Simazine at 1.1 kg in 220 l. Aphicide: Pirimicarb at 0.14 kg in 220 l. Desiccant: Diquat at 0.59 kg ion with 'Agral' (a wetting agent) at 0.21 kg in 220 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.:- Ploughed: 24 Aug, 1978. Spring-tine cultivated: 2 Oct. Rotary harrowed, seed sown, weedkiller applied: 9 Oct. Tractor hoed: 11 June. Aphicide applied: 25 June. Desiccant applied: 4 Sept. Combine harvested: 7 Sept. Previous cropping: Wheat 1977, barley 1978.

NOTE: Counts were made of seedling emergence, percentage leaf area affected by *Botrytis* spp., stems per row, pods per stem and 1000 grain weights.

79/R/BE/1

GRAIN TONNES/HECTARE

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

BENOMYL IRRIGATN	0+0	1+0	1+1	MEAN
NONE	3.03	3.34	3.40	3.29
APPLIED	4.26	4.05	4.37	4.26
MEAN	3.65	3.69	3.88	3.78

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

TABLE	BENOMYL	IRRIGATN* BENOMYL	
SED	0.244	0.345	MIN REP
	0.211	0.299	MAX-MIN

BENOMYL
MAX-MIN 1+1 V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

* WITHIN THE SAME LEVEL OF IRRIGATN ONLY

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

STRATUM	DF	SE	CV%
BLOCK.WP.SP	14	0.423	11.2
GRAIN MEAN DM%	79.8		
SUB PLOT AREA HARVESTED	0.00293		