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83/R/BE/2 Control of Chocolate Spot - W. Beans

Rothamsted Research

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83/R/BE/2

WINTER BEANS

CONTROL OF CHOCOLATE SPOT

Object: To study the effects of times of applying benomyl on the incidence of chocolate spot (*Botrytis* spp.) and on the yield of w. beans - Fosters West.

Sponsor: A. Bainbridge.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 4.27 x 13.7.

Treatments:

FUNGTIME	Time of applying benomyl fungicide, at 0.56 kg in 340 l:
NONE	Not applied
1	Single spray on 28 Apr, 1983
2	Single spray on 17 May
3	Single spray on 10 June
4	Single spray on 1 July
1+2+3+4	Single sprays on each of above dates
R	Routine sprays during flowering on 17 May, 16 June

NOTE: A single spray of benomyl at 0.56 kg in 340 l was applied to all treatments except NONE on 1 March, 1983 to limit spread of *Ascochyta*.

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Propyzamide at 0.8 kg with simazine at 1.7 l in 250 l. Fungicide: Propiconazole at 0.12 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Throws MS, sown at 280 kg.

Cultivations, etc.: - Ploughed: 31 Aug, 1982. Chalk applied: 16 Sept. Rotary harrowed: 20 Sept. Seed sown: 22 Sept. Weedkillers applied: 2 Oct. Insecticide applied: 23 June, 1983. Fungicide applied: 12 July. Combine harvested: 12 Aug. Previous crops: W. barley 1981, w. wheat 1982.

NOTE: Emergence counts were made and spore sampling started in November. Disease assessments for chocolate spot and *Ascochyta* were made on three occasions during the season. Stem and pod counts were made in July.

83/R/BE/2

GRAIN TONNES/HECTARE

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

FUNGTIME	NONE	1	2	3	4	1+2+3+4	R	MEAN
	3.43	3.47	3.72	3.52	3.51	3.66	3.48	3.54

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

TABLE	FUNGTIME
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SED	0.127

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

STRATUM	DF	SE	CV%
BLOCK.WP	18	0.180	5.1

GRAIN MEAN DM% 85.9

PLOT AREA HARVESTED 0.00293