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82/R/BE/2 Control of Chocolate Spot - Winter Beans

Rothamsted Research

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82/R/BE/2

WINTER BEANS

CONTROL OF CHOCOLATE SPOT

Object: To study the effects of times and frequencies of application of two fungicides on the control of chocolate spot and on the yield of w. beans - Gt. Knott III.

Sponsors: A. Bainbridge, G.R. Cayley.

Design: 3 randomised blocks of 16 plots.

Whole plot dimensions: 5.33 x 10.0.

Treatments: All combinations of:-

1. FUNGCIDE Fungicides:

BENOMYL	Benomyl at 0.56 kg
PROCHLOR	Prochloraz at 0.50 kg

2. FUNGTIME Times and frequencies of applying fungicides:

1+5	Twice, on 25 Jan, 1982 and 11 May
5+7	Twice, on 11 May and 9 June
2	Once, on 19 Mar
3	Once, on 22 Apr
4	Once, on 29 Apr
6	Once, on 26 May
7	Once, on 9 June

plus one extra treatment:

EXTRA

NONE None (duplicated)

Basal applications: Weedkillers: Propyzamide at 0.85 kg in 250 l.
Paraquat at 0.56 kg ion in 220 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.:- Deep spring-tine cultivated twice: 9 Sept, 1981 and a third time: 11 Sept. Paraquat applied: 22 Sept. Spring-tine cultivated, seed sown: 23 Sept. Propyzamide applied: 29 Sept. Combine harvested: 12 Aug, 1982. Previous crops: W. barley 1980, s. barley 1981.

NOTE: Emergence counts were made in autumn and components of yield measured at maturity. Chocolate spot was assessed monthly throughout the growing season and leaf drop counts were made in mid-June.

82/B/BE/2

GRAIN TONNES/HECTARE

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

FUNGCIDE FUNGTIME	BENOMYL	PROCHLOR	MEAN
1+5	2.73	2.49	2.61
5+7	2.60	2.38	2.49
2	2.36	2.36	2.36
3	2.44	2.49	2.47
4	2.58	2.41	2.50
6	2.94	2.44	2.69
7	2.45	2.48	2.47
MEAN	2.59	2.44	2.51

EXTRA NONE 2.45

GRAND MEAN 2.50

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

TABLE	FUNGTIME	FUNGCIDE	FUNGTIME FUNGCIDE
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SED	0.078	0.042	0.111

SED FOR COMPARING EXTRA NONE WITH ANY ITEM IN FUNGTIME.FUNGCIDE TABLE IS 0.096

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

STRATUM	DF	SE	CV%
BLOCK.WP	31	0.135	5.4

GRAIN MEAN DM% 86.0

PLOT AREA HARVESTED 0.00320