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80/R/BE/1 Winter Beans Fungicides

Rothamsted Research

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80/R/BE/1

WINTER BEANS

FUNGICIDES

Object: To study the effects of times of applying four fungicides on the incidence of Chocolate Spot (*Botrytis* spp.) and on the yield of w. beans - Geescroft.

Sponsors: A. Bainbridge, G.R. Cayley, M.E. Finney.

Design: Single replicate of 32 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

1. FUNGICIDE Fungicides (applied at 0.5 kg on each occasion):

BENOMYL	Benomyl
IPRODION	Iprodione
PROCHLOR	Prochloraz
THIABEND	Thiabendazole

2. APP TIME Application times of fungicides:

	21 Dec, 1979	16 Apr, 1980	5 June
NONE	None	None	None
E	Sprayed	None	None
M	None	Sprayed	None
L	None	None	Sprayed
E+M	Sprayed	Sprayed	None
E+L	Sprayed	None	Sprayed
M+L	None	Sprayed	Sprayed
E+M+L	Sprayed	Sprayed	Sprayed

NOTE: Fungicides were applied in 340 l.

Basal applications: Weedkillers: Glyphosate at 1.5 kg in 220 l. Trietazine and simazine (as 'Remtal SC' at 2.8 l) in 220 l.

Seed: Throws MS, sown at 250 kg.

Cultivations, etc.:- Glyphosate applied: 12 Sept, 1979. Ploughed: 26 Sept. Rotary harrowed: 4 Oct. Seed sown: 5 Oct. 'Remtal SC' applied: 6 Oct. Combine harvested: 26 Aug, 1980. Previous crops: W. wheat 1978, s. barley 1979.

NOTE: Seedling emergence and percentage leaf area affected by *Botrytis* spp. were estimated and 1000 grain weights were measured.

80/R/BE/1

GRAIN TONNES/HECTARE

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

APP TIME FUNGCIDE	E	M	L	E+M	E+L	M+L	E+M+L	MEAN
BENOMYL	4.23	3.51	4.22	4.27	4.83	4.71	4.62	4.34
IPRODION	4.49	3.33	4.66	4.43	4.61	3.96	4.79	4.32
PROCHLOR	3.17	3.87	4.42	3.64	4.17	4.31	4.27	3.98
THIABEND	4.24	3.63	3.23	3.87	4.07	3.40	3.89	3.76
MEAN	4.03	3.59	4.13	4.05	4.42	4.09	4.39	4.10

APP TIME NONE 3.97

GRAND MEAN 4.09

GRAIN MEAN DM% 81.8

PLOT AREA HARVESTED 0.00279