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Rothamsted Research

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75/R/CS/109

BENOMYL AND SCLEROTINIA

Object: To study the effects of three fungicides on yield and incidence of Sclerotinia rot in winter beans - Fosters O & E III.

Sponsor: J.F. Jenkyn.

The third year, winter beans.

For previous years see 73-74/R/CS/109.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 4.06 x 4.27.

Treatments: Fungicide:	FUNGICIDE
None (3 plots per block)	O
Benomyl, two sprays each to 1973 and 1974 crops, one in 1975 (3 plots per block)	B(2 2) 1
Benomyl, five sprays each to 1973 and 1974 crops, two in 1975	B(5 5) 2
Benomyl + RP 26019, no sprays in 1973 and 1974, two in 1975	BR(O) 2
RP 26019, no sprays in 1973 and 1974, two in 1975	R(O) 2
Captafol, none in 1973, five sprays in 1974, two in 1975	C(O 5) 2

- NOTES: (1) Crop in 1973 and 1974 was red clover, infected with Sclerotinia.
(2) Sprays were applied on 7 Feb and 9 May, 1975 (B(2 2) 1 7 Feb only).
(3) Rates of application, in 340 l:-
Benomyl at 0.56 kg. RP 26019 at 0.56 kg a.i. and captafol at 1.34 kg.

Basal applications: Manures: (0:14:28) at 850 kg.

Seed: Throws MS, sown at 380 kg.

Cultivations, etc.: - Clover ploughed: 11 July, 1974. Rotary cultivated twice: 30 July and twice: 20 Aug. Spring-tine cultivated: 28 Aug. Ploughed: 16 Sept. PK fertiliser applied: 28 Oct. Power harrowed: 29 Oct. Seed sown: 4 Nov. Combine harvested: 6 Aug, 1975.

NOTE: The crop was sown late and very few plants became infected with Sclerotinia.

75/R/CS/109

*** TABLES OF MEANS ***

GRAIN TONNES/HECTARE

FUNGCIDE	0	B(2 2) 1	B(5 5) 2	BR(0) 2	R(0) 2	C(0 5) 2	MEAN
	2.94	3.10	3.01	3.07	3.25	3.00	3.04

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

TABLE	FUNGCIDE	
SED	0.157	0 v B(2 2) 1
SED	0.223	0 or B(2 2) 1 v ANY OF REMAINDER
SED	0.273	ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.334	11.0

GRAIN MEAN DM% 87.5

PLOT AREA HARVESTED 0.00065