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76/R/CS/109 Benomyl and Sclerotinia - W. Beans

Rothamsted Research

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76/R/CS/109

BENOMYL AND SCLEROTINIA

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

Sponsor: J.F. Jenkyn.

The fourth year, winter beans.

For previous years see 73-75/R/CS/109.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 4.27 x 4.27.

Treatments

FUNGICIDE	Fungicide:
NONE	None (3 plots per block).
B(221)2E	Benomyl, two sprays in 1973 and 1974, one in 1975, two early sprays for 1976.
B(221)2M	Benomyl, two sprays in 1973 and 1974, one in 1975, two mid-winter sprays for 1976.
B(221)2L	Benomyl, two sprays in 1973 and 1974, one in 1975, two late sprays for 1976.
B(552)5	Benomyl, five sprays in 1973 and 1974, two in 1975, five for 1976.
BR(002)5	Benomyl + 'RP 26019' (glycophene), no sprays in 1973 and 1974, two in 1975, five for 1976.
R(002)5	'RP 26019', no sprays in 1973 and 1974, two in 1975, five for 1976.
C(052)5	Captafol, no sprays in 1973, five in 1974, two in 1975, five for 1976.

- NOTES: (1) Crop in 1973 and 1974 was red clover infected with Sclerotinia. Winter beans in 1975.
- (2) Five-spray treatments were applied on 4 Nov, 1975, 4 Dec, 12 Jan, 1976, 25 Feb and 9 Apr. B(221)2E sprays were applied on the first two dates, B(221)2M on the second and third dates, B(221)2L on the third and fourth dates.
- (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. 'Spreadite' (a wetting agent) was applied at 0.75 ml/l water with each spray.

Basal applications: Manures: (0:14:28) at 850 kg. Weedkillers: Simazine at 1.1 kg in autumn and 0.84 kg in spring, both in 340 l.

Seed: Throws MS, sown at 380 kg.

Cultivations, etc.:- Fertiliser applied: 18 Sept, 1975. Ploughed: 19 Sept. Spring-tine cultivated and sown: 3 Oct. Autumn weedkiller applied: 24 Oct. Spring weedkiller applied: 8 Mar, 1976. Combine harvested: 19 July.

NOTE: Incidence of chocolate spot (*Botrytis* spp.) and *Ascochyta* were measured on one occasion. Sclerotinia was not found in significant quantity.

76/R/CS/109

GRAIN TONNES/HECTARE

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

FUNGCIDE	
NONE	2.47
B(221)2E	2.66
B(221)2M	2.59
B(221)2L	2.89
B(552)5	2.39
BR(002)5	2.45
R(002)5	2.78
C(052)5	2.59
MEAN	2.57

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

TABLE	FUNGCIDE
SED	0.117 MIN REP 0.096 MAX-MIN

FUNGCIDE
MAX-MIN NONE V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

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

STRATUM	DF	SE	CV%
BLOCK.WP	20	0.144	5.6

GRAIN MEAN DM% 86.7
PLOT AREA HARVESTED 0.00091