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75/ R/CS/109 - Benomyl & Sclerotinia - Winter Beans

Rothamsted Research

Rothamsted Research (1976) 75/ R/CS/109 - Benomyl & Sclerotinia - Winter Beans ; Yields Of The Field Experiments 1975, pp 201 - 202 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

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