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83/R/BE/2 Control of Chocolate Spot - W. Beans

Rothamsted Research

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83/R/BE/2

WINTER BEANS

CONTROL OF CHOCOLATE SPOT

Object: To study the effects of times of applying benomyl on the incidence of chocolate spot (*Botrytis* spp.) and on the yield of w. beans - Fosters West.

Sponsor: A. Bainbridge.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 4.27 x 13.7.

Treatments:

| FUNGTIME | Time of applying benomyl fungicide, at 0.56 kg in 340 l: |
|----------|--|
| NONE | Not applied |
| 1 | Single spray on 28 Apr, 1983 |
| 2 | Single spray on 17 May |
| 3 | Single spray on 10 June |
| 4 | Single spray on 1 July |
| 1+2+3+4 | Single sprays on each of above dates |
| R | Routine sprays during flowering on 17 May, 16 June |

NOTE: A single spray of benomyl at 0.56 kg in 340 l was applied to all treatments except NONE on 1 March, 1983 to limit spread of *Ascochyta*.

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Propyzamide at 0.8 kg with simazine at 1.7 l in 250 l. Fungicide: Propiconazole at 0.12 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Throws MS, sown at 280 kg.

Cultivations, etc.: - Ploughed: 31 Aug, 1982. Chalk applied: 16 Sept. Rotary harrowed: 20 Sept. Seed sown: 22 Sept. Weedkillers applied: 2 Oct. Insecticide applied: 23 June, 1983. Fungicide applied: 12 July. Combine harvested: 12 Aug. Previous crops: W. barley 1981, w. wheat 1982.

NOTE: Emergence counts were made and spore sampling started in November. Disease assessments for chocolate spot and *Ascochyta* were made on three occasions during the season. Stem and pod counts were made in July.

83/R/BE/2

GRAIN TONNES/HECTARE

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

| FUNGTIME | NONE | 1 | 2 | 3 | 4 | 1+2+3+4 | R | MEAN |
|----------|------|------|------|------|------|---------|------|------|
| | 3.43 | 3.47 | 3.72 | 3.52 | 3.51 | 3.66 | 3.48 | 3.54 |

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

| TABLE | FUNGTIME |
|-------|----------|
| ----- | ----- |
| SED | 0.127 |

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

| STRATUM | DF | SE | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 18 | 0.180 | 5.1 |

GRAIN MEAN DM% 85.9

PLOT AREA HARVESTED 0.00293