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81/R/CS/264 Fungicide Rates - W. Oilseed Rape, S. Barley

Rothamsted Research

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81/R/CS/264

FUNGICIDE RATES

Object: To study the effects of a range of rates of triadimefon on pathogens and yield of w. oilseed rape on land in rotation (pathogen free) and after previous oilseed rape (pathogen infected) - Long Hoos IV 1 (pathogen free) and Summerdells I (pathogen infected).

Sponsor: C.J. Rawlinson.

The first year, w. oilseed rape, s. barley.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.13 x 3.05.

Treatments:

FUNGRATE Rates of triadimefon (kg) applied to soil surface on 28 Aug, 1980 before seedbed cultivation:

0.06
0.12
0.25
0.50
1.00
2.00

NOTES: (1) Sprays were applied in 340 l.

(2) On Summerdells I w. oilseed rape failed during the winter and the site was sown to s. barley to assess the residual effects of treatments already applied.

Standard applications: Long Hoos IV and Summerdells I: Manures: 'Nitro-Chalk' at 670 kg. Weedkillers: Propyzamide at 0.56 kg with dalapon at 1.9 kg in 340 l. Manures: (13:13:20) at 380 kg. Weedkillers: Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3 l.) in 250 l.

Seed: Long Hoos IV and Summerdells I: Primor, sown at 9 kg. Summerdells I: Georgie, sown at 160 kg.

Cultivations, etc.:-

Long Hoos IV: NPK applied: 1 Sept, 1980. Rotary harrowed, seed sown: 5 Sept. Weedkillers applied: 30 Oct. N applied: 18 Feb, 1981. Cut and windrowed: 21 July. Grain threshed: 31 July. Previous crops: S. barley 1979, fallow 1980.

Summerdells I: NPK applied: 1 Sept, 1980. Heavy spring-tine cultivated twice: 2 Sept. Rotary harrowed: 4 Sept. Primor seed sown: 5 Sept. Propyzamide and dalapon applied: 30 Oct. N applied: 18 Feb, 1981. Chisel ploughed: 1 May. Rotary harrowed: 13 May. Georgie seed sown: 14 May. 'Brittox' applied: 19 June. Combine harvested: 8 Sept. Previous crops: W. barley 1979, w. oilseed rape 1980.

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- NOTES: (1) On Summerdells I: Foliar diseases on w. oilseed rape were assessed twice; s. barley was assessed fortnightly for mildew, yellow and brown rust. Soil cores were analysed for triadimefon residues.
- (2) On Long Hoos IV: Foliar diseases were assessed five times during the season.
- (3) 2 plots, with FUNGRATE 0.06 and 2.00 were lost, estimated values were used in the analysis.

81/R/CS/264 LONG HOOS IV

OILSEED RAPE

GRAIN TONNES/HECTARE

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

FUNGRATE	0.06	0.12	0.25	0.50	1.00	2.00	MEAN
	1.41	1.24	1.24	1.44	1.29	1.28	1.32

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

TABLE	FUNGRATE
-----	-----
SED	0.079

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.079	7.4

GRAIN MEAN DM% 78.4

PLOT AREA HARVESTED 0.00065

81/R/CS/264 SUMMERDELLS I

SPRING BARLEY

GRAIN TONNES/HECTARE

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

FUNGRATE	0.06	0.12	0.25	0.50	1.00	2.00	MEAN
	2.35	1.92	2.22	2.48	2.49	2.82	2.38

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

TABLE	FUNGRATE
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SED	0.257

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

STRATUM	DF	SE	CV%
BLOCK.WP	8	0.314	13.2

GRAIN MEAN DM% 79.4

PLOT AREA HARVESTED 0.00053