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Yields of the Field Experiments 1982

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82/R/CS/264 Fungicide Rates - W. Barley, S. Barley

Rothamsted Research

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82/R/CS/264

FUNGICIDE RATES

Object: To study the residual effects on barley of a range of rates of triadimefon applied to 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 second year, w. barley (Long Hoos IV 1), s. barley (Summerdells I).

For previous year see 81/R/CS/264.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.13 x 3.05.

Treatments:

FUNGRATE (81) Residues of triadimefon applied at different rates (kg) to soil surface before seedbed cultivation for w. oilseed rape 1981:

0.06
0.12
0.25
0.50
1.00
2.00

NOTE: In 1981 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.

Basal applications:

Long Hoos IV: Manures: 'Nitro-Chalk' at 500 kg. Weedkillers: Mecoprop, bromoxynil and ioxynil (as 'Brittox' at 2.8 l) in 450 l. Dicamba, mecoprop and MCPA (as 'Banlene Plus' at 4.2 l) in 340 l.

Summerdells I: Manures: (0:14:28) at 780 kg, 'Nitro-Chalk' at 470 kg. Weedkillers: Paraquat at 0.5 kg ion in 250 l. Dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l.

Seed: Long Hoos IV: Maris Otter, undressed, sown at 160 kg.
Summerdells I: Georgie, sown at 160 kg.

Cultivations, etc.:-

Long Hoos IV: Ploughed: 6 Aug, 1981. Power harrowed: 23 Sept. Spring-tine cultivated: 13 Oct. Seed sown: 16 Oct. Mecoprop, bromoxynil and ioxynil applied: 1 Feb, 1982. Dicamba, mecoprop and MCPA applied: 19 Apr. N applied: 20 Apr. Combine harvested: 26 July.

Summerdells I: Ploughed: 8 Oct, 1981. PK applied: 26 Nov. N and paraquat applied: 25 Mar, 1982. Spring-tine cultivated: 30 Mar. Rotary harrowed, seed sown: 3 Apr. Dicamba, mecoprop and MCPA applied: 17 May. Combine harvested: 17 Aug.

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NOTE: Mildew and other diseases were assessed five times at fortnightly intervals from May to July. Components of yield were measured at maturity.

LONG HOOS IV WINTER BARLEY

GRAIN TONNES/HECTARE

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

FUNGRATE	0.06	0.12	0.25	0.50	1.00	2.00	MEAN
	2.81	2.59	2.17	2.36	1.67	2.90	2.42

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

TABLE	FUNGRATE
-----	-----
SED	0.413

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.505	20.9

GRAIN MEAN DM% 69.2

STRAW TONNES/HECTARE

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

FUNGRATE	0.06	0.12	0.25	0.50	1.00	2.00	MEAN
	5.57	5.42	5.65	6.20	6.26	5.54	5.77

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

TABLE	FUNGRATE
-----	-----
SED	0.875

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	1.072	18.6

STRAW MEAN DM% 58.8

PLOT AREA HARVESTED 0.00054

82/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
	4.68	4.35	4.58	4.66	4.22	4.88	4.56

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

TABLE	FUNGRATE
-----	-----
SED	0.448

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.549	12.0

GRAIN MEAN DM% 82.0

PLOT AREA HARVESTED 0.00065