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83/R/WW/7 Nuarimol and Take-all - W. Wheat

Rothamsted Research

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83/R/WW/7

WINTER WHEAT

NUARIMOL AND TAKE-ALL

Object: To study the effects of nuarimol applied to the soil on the incidence of take-all (*Gaeumannomyces graminis*) and on yield - Gt. Knott I.

Sponsor: G.L. Bateman.

Design: 5 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 13.0.

Treatments:

NUARIMOL Nuarimol fungicide (kg) rotary harrowed into the seedbed:

0.00

0.55

1.10

2.20

Basal applications: Manures: Chalk at 5.0 t. 'Nitro-Chalk' at 130 kg followed by 500 kg. Weedkillers: Paraquat at 0.70 kg ion in 250 l. Isoproturon at 2.1 kg with dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 4.2 l) in 250 l. Fungicide: Propiconazole at 0.12 kg in 250 l.

Seed: Avalon, sown at 180 kg.

Cultivations, etc.: Paraquat applied: 23 Aug, 1982. Ploughed: 31 Aug. Chalk applied: 16 Sept. First N applied: 20 Sept. Spring-tine cultivated: 23 Sept. Rotary harrowed, seed sown: 1 Oct. Isoproturon and 'Poly-Farmon' applied: 10 Mar, 1983. Second N applied: 15 Apr. Fungicide applied: 16 June. Combine harvested: 11 Aug. Previous crops: S. barley 1981, w. wheat 1982.

NOTE: Take-all and foot rots were assessed in early April, mid-May and mid-June.

83/R/WW/7

GRAIN TONNES/HECTARE

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

NUARIMOL	0.00	0.55	1.10	2.20	MEAN
	7.50	7.91	9.00	8.03	8.11

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

TABLE	NUARIMOL
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SED	0.489

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.774	9.5

GRAIN MEAN DM% 87.1

PLOT AREA HARVESTED 0.00248