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84/R/WW/6 Seed Dressings and Take-all - W. Wheat

Rothamsted Research

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84/R/WW/6

WINTER WHEAT

SEED DRESSINGS AND TAKE-ALL

Object: To study the effects of seed treatments on the incidence of take-all and on the yield of early-sown winter wheat - Gt. Knott I.

Sponsor: G.L. Bateman.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments: All combinations of:-

- | | |
|------------|--|
| 1. SOWDATE | Dates of sowing: |
| 8 SEPT | 8 September, 1983 |
| 7 OCT | 7 October |
| 2. SEED DR | Seed dressings: |
| NONE | None |
| TRIADIME | Triadimenol at 0.5 g/kg of seed plus fuberidazole at 0.06 g/kg of seed |
| UKO 82F | 'UKO 82 f' at 2.75 ml/kg of seed |

Basal applications: Manures: Muriate of potash at 420 kg. 'Nitro-Chalk' on three occasions, at 130 kg on the first, at 150 kg on the second and at 460 kg on the third. Weedkillers: Isoproturon at 2.5 kg with bromoxynil and ioxynil (as 'Deloxil' at 2.0 l) in 250 l. Dicamba with mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l applied with the prochloraz and carbendazim. Fungicides: Prochloraz at 0.4 kg with carbendazim at 0.15 kg. Maneb at 1.6 kg with tridemorph at 0.38 kg and carbendazim at 0.15 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Aquila, sown at 170 kg.

Cultivations, etc.: Heavy spring-tine cultivated: 3 Sept, 1983. Muriate of potash and first N applied: 7 Sept. All plots heavy spring-tine cultivated twice, early-sown plots rotary harrowed and seed sown: 8 Sept. Late-sown plots rotary harrowed and seed sown: 7 Oct. Isoproturon with 'Deloxil' applied: 1 Dec. Second N applied: 16 Feb, 1984. Third N applied: 11 Apr. 'Herrisol' with prochloraz and carbendazim applied: 17 Apr. Maneb, carbendazim and tridemorph applied: 13 June. Insecticide applied: 27 June. Combine harvested: 22 Aug. Previous crops: W. wheat 1982 and 1983.

NOTE: Take-all and mildew assessments were made twice during the autumn. Take-all and foot rots were assessed in March, May and June.

84/R/WW/6

GRAIN TONNES/HECTARE

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

SEED DR SOWDATE	NONE	TRIADIME	UKO 82F	MEAN
8 SEPT	5.72	8.44	6.93	7.03
7 OCT	7.43	7.75	7.89	7.69
MEAN	6.57	8.09	7.41	7.36

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

TABLE	SOWDATE	SEED DR	SOWDATE SEED DR
SED	0.378	0.463	0.655

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

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.926	12.6

GRAIN MEAN DM% 86.2

PLOT AREA HARVESTED 0.00329