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84/R/WW/15 Chloride and Take-all - W. Wheat

Rothamsted Research

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84/R/WW/15

WINTER WHEAT

CHLORIDE AND TAKE-ALL

Object: To study the effects of different spring nitrogen top dressings, that include chloride and ammonium ions, on the incidence of take-all and on the yield of winter wheat - Gt. Knott I.

Sponsors: R.J. Gutteridge, G.L. Bateman.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments:

SPRING N Spring nitrogen, 40 kg N on 9 March, 1984; 160 kg N on 16 April:

AMM CHL	Ammonium chloride
AMM NIT	Ammonium nitrate as 'Nitro-Chalk'
AMM SUL	Ammonium sulphate
UREA	Urea

Basal applications: Manures: Muriate of potash at 410 kg. 'Nitro-Chalk' at 130 kg. Weedkillers: Isoproturon at 2.5 kg with bromoxynil and ioxynil (as 'Deloxil' at 1.0 l) in 250 l. Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l applied with the prochloraz and carbendazim. Fungicides: Prochloraz at 0.40 kg and carbendazim at 0.15 kg. Maneb at 1.6 kg with carbendazim at 0.15 kg and tridemorph at 0.38 kg in 250 l. Insecticide: Pirimicarb at 0.14 kg in 250 l.

Seed: Longbow, sown at 170 kg.

Cultivations, etc.: - Discd: 3 Sept, 1983. Basal N and K applied: 7 Sept. Rotary harrowed, seed sown: 11 Oct. Isoproturon with 'Deloxil' applied: 30 Nov. 'Herrisol' with prochloraz and carbendazim applied: 17 Apr, 1984. Maneb with carbendazim and tridemorph applied: 13 June. Insecticide applied: 27 June. Combine harvested: 22 Aug. Previous crops: W. wheat 1982 and 1983.

NOTE: Take-all assessments were made monthly from early March to late June and foot rot assessments were made in June.

84/R/WW/15

GRAIN TONNES/HECTARE

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

SPRING N	AMM CHL	AMM NIT	AMM SUL	UREA	MEAN
	7.92	8.59	8.25	8.33	8.27

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

TABLE	TREATMNT
SED	0.453

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.641	7.8

GRAIN MEAN DM% 88.0

PLOT AREA HARVESTED 0.00280