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Rothamsted Research

Rothamsted Research (1986) *85/R/WW/4 Chloride and Take-all - W. Wheat ; Yields Of The Field Experiments 1985*, pp 213 - 214 - DOI: <https://doi.org/10.23637/ERADOC-1-19>

85/R/WW/4

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 - Delafield.

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

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments:

SPRING N Spring nitrogen, 40 kg N on 6 March, 1985; 160 kg N on 9 April:

AMM CHL	Ammonium chloride
AMM NIT	Ammonium nitrate as 'Nitro-Chalk' (27.5% N)
AMM SUL	Ammonium sulphate
UREA	Urea
AN+PC	Ammonium nitrate + potassium chloride

Basal applications: Weedkillers: Isoproturon at 2.0 kg with mecoprop at 2.0 kg, ioxynil at 0.25 kg and bromoxynil at 0.25 kg in 200 l.

Fungicides: Propiconazole at 0.25 kg with carbendazim at 0.25 kg and maneb at 1.6 kg in 200 l.

Seed: Longbow, sown at 170 kg.

Cultivations, etc.: - Ploughed, disced: 10 Sept, 1984. Spring-tine cultivated: 11 Sept. Rotary harrowed, seed sown: 26 Sept. Weedkillers applied: 12 Mar, 1985. Fungicides applied: 28 June. Combine harvested: 27 Aug. Previous crops: W. wheat 1983, s. barley 1984.

NOTE: Take-all assessments were made monthly from early March to early July.

85/R/WW/4

GRAIN TONNES/HECTARE

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

SPRING N	AMM CHL	AMM NIT	AMM SUL	UREA	AN+PC	MEAN
	8.13	7.42	8.55	8.45	8.50	8.21

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

TABLE	SPRING N
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SED	0.396

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

STRATUM	DF	SE	CV%
BLOCK.WP	12	0.560	6.8

GRAIN MEAN DM% 83.2

PLOT AREA HARVESTED 0.00326