

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

# Yields of the Field Experiments 1985

[Full Table of Content](#)



## 85/R/WW/4 Chloride and Take-all - W. Wheat

### 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
-----	-----
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