

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 2000

[Full Table of Content](#)



00/W/WW/24 Effects of Sulphur and Nitrogen on Winter Wheat

Rothamsted Research

Rothamsted Research (2001) *00/W/WW/24 Effects of Sulphur and Nitrogen on Winter Wheat ; Yields Of The Field Experiments 2000*, pp 139 - 140 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/W/WW/24

WINTER WHEAT

EFFECTS OF SULPHUR AND NITROGEN ON WINTER WHEAT

Object: To test combinations of nitrogen and sulphur fertilizers on the yield and quality of winter wheat - Woburn, Butt Close IV.

Sponsors: M.M.A. Blake-Kalff, F.J. Zhao, M.J. Hawkesford, S.P. McGrath.

Design: 4 randomised blocks of 3 x 3 plots.

Plot dimensions: 4.0 x 10.0.

Treatments:-

1. SULPHUR Kg S:

S-	None
S1	10
S2	40

2. NITROGEN Kg N:

	Early	Late	Total
NL	50	50	100
NM	50	100	150
NH	50	150	200

Experimental diary:

06-Sep-99 : B : : Ploughed and furrow pressed.
 14-Sep-99 : B : : Drilled, Hereward, tr. Sibutol, at 275 seeds/m² with the Accord drill.
 : B : : Dutch harrowed.
 12-Oct-99 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.
 : B : : tm)Cyperkill 10 at 250 ml in 200 l.
 : B : : tm)Isoguard at 1.0 l in 200 l.
 23-Mar-00 : T : S1 : Gypsum at 57 kg.
 : T : S2 : Gypsum at 228 kg.
 : B : : 34.5% N at 145 kg.
 08-May-00 : B : : tm)Vytel Copper at 0.1 l in 200 l.
 : B : : tm)Vytel Manganese at 3.0 l in 200 l.
 : B : : tm)Landmark at 0.5 l in 200 l.
 : B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
 09-May-00 : T : NL : 34.5% N at 145 kg.
 : T : NM : 34.5% N at 290 kg.
 : T : NH : 34.5% N at 435 kg.
 20-May-00 : B : : Landmark at 1.0 l in 200 l.
 17-Aug-00 : B : : Combine harvested.

Previous crops: S. barley 1998, s. linseed.

NOTE: Plant samples were taken on five occasions between April and August for malate, sulphur, nitrogen and biomass.

00/W/WW/24

GRAIN TONNES/HECTARE

***** Tables of means *****

NITROGEN SULPHUR	NL	NM	NH	Mean
S-	6.30	5.77	5.49	5.85
S1	6.12	6.71	7.04	6.63
S2	5.73	6.61	7.65	6.66
Mean	6.05	6.36	6.73	6.38

*** Standard errors of differences of means ***

SULPHUR	NITROGEN	SULPHUR NITROGEN
0.469	0.469	0.812

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	1.149	18.0

GRAIN MEAN DM% 83.4

PLOT AREA HARVESTED 0.00192