

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/R/WW/13 Strobilurin and Nitrogen Curve - W. Wheat

Rothamsted Research

Rothamsted Research (2001) *00/R/WW/13 Strobilurin and Nitrogen Curve - W. Wheat* ; Yields Of The Field Experiments 2000, pp 133 - 134 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/WW/13

WINTER WHEAT

STROBILURIN AND NITROGEN CURVE

Object: To measure the yield, nitrogen uptake and mineral nitrogen remaining in the soil at harvest from a range of nitrogen fertilisers on wheat sprayed with strobilurin or conventional fungicides - Bones Close.

Sponsors: C.G. Peters, E. Stockdale, K.L. Sykes.

Design: 3 randomised blocks of 2 x 6 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. NITROGEN Kg N:

	Early	Later	Total
N0	0	0	0
N1	0	60	60
N2	50	70	120
N3	50	130	180
N4	50	190	240
N5	50	250	300

2. FUNGICIDE Fungicides:

S	Strobilurin; epoxiconazole and kresoxim-methyl
C	Conventional; epoxiconazole

Experimental diary:

28-Sep-99 : B : : Ploughing started.
 29-Sep-99 : B : : Ploughing finished.
 08-Oct-99 : B : : Combination drilled, Hereward, tr. Sibutol, at 380 seeds/m² with the Accord drill.
 : B : : Genesis at 5.0 kg.
 13-Dec-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.
 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.
 : B : : tm)Toppel 10 at 250 ml in 200 l.
 14-Mar-00 : T : N2,N3,N4,N5 : 34.5% N at 145 kg.
 24-Apr-00 : B : : tm)Starane 2 at 1.0 l in 100 l.
 : B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 100 l.
 26-Apr-00 : T : C : Opus at 1.0 l in 220 l.
 : T : S : Landmark at 1.0 l in 220 l.
 03-May-00 : T : N1 : 34.5% N at 174 kg.
 : T : N2 : 34.5% N at 203 kg.
 : T : N3 : 34.5% N at 377 kg.
 : T : N4 : 34.5% N at 551 kg.
 : T : N5 : 34.5% N at 725 kg.
 22-May-00 : T : C : Opus at 1.0 l in 220 l.
 : T : S : Landmark at 1.0 l in 220 l.
 24-May-00 : B : : tm)Topik at 125 ml in 100 l.
 : B : : tm)Toil at 0.5 l in 100 l.
 15-Aug-00 : T : : Combine harvested.

Previous crops: W. rye, s. and w. wheat 1998, lupins 1999.

00/R/WW/13

NOTE: Soil was sampled in January for nitrogen content. Grain was assessed for quality and nitrogen content. Straw was analysed for nitrogen content.

GRAIN TONNES/HECTARE

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

NITROGEN FUNGICIDE	N0	N1	N2	N3	N4	N5	Mean
S	6.94	8.07	9.73	9.75	10.88	10.73	9.35
C	6.67	8.07	9.37	9.69	9.76	9.88	8.91
Mean	6.80	8.07	9.55	9.72	10.32	10.31	9.13

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

FUNGICIDE	NITROGEN	FUNGICIDE NITROGEN
0.220	0.382	0.540

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	22	0.661	7.2
GRAIN MEAN DM%	84.4		

STRAW TONNES/HECTARE

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

NITROGEN FUNGICIDE	N0	N1	N2	N3	N4	N5	Mean
S	5.90	5.90	7.47	7.07	6.82	7.62	6.79
C	5.52	6.74	6.62	6.98	6.34	7.31	6.58
Mean	5.71	6.32	7.05	7.02	6.58	7.46	6.69

STRAW MEAN DM% 80.5

PLOT AREA HARVESTED 0.00240