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

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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.

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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