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00/W/WW/23

WINTER WHEAT

TIMING OF SULPHUR APPLICATION ON WINTER WHEAT

Object: To test the timing of sulphur fertilizer applications on the yield and quality of winter wheat - Woburn, Butt Close III.

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

Design: 4 randomised blocks of 5 plots.

Plot dimensions: 4.0 x 10.0.

Treatments:-

S TIMING Sulphur timing (30 kg S applied as gypsum):

-	None
T1	05-Mar-00
T2	06-Apr-00
T3	09-May-00
T4	07-Jun-00

Experimental diary:

06-Sep-99	: B :	: Ploughed and furrow pressed.
14-Sep-99	: B :	: Dutch harrowed.
	: B :	: Drilled, Hereward, tr. Sibutol, at 275 seeds/m ² with the Accord drill.
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.
05-Mar-00	: T : T1	: Gypsum at 171 kg.
23-Mar-00	: B :	: 34.5% N at 145 kg.
06-Apr-00	: T : T2	: Gypsum at 171 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 : T3	: Gypsum at 171 kg.
	: B :	: 34.5% N at 377 kg.
13-May-00	: B :	: Starane 2 at 2.0 l in 200 l.
20-May-00	: B :	: Landmark at 1.0 l in 200 l.
07-Jun-00	: T : T4	: Gypsum at 171 kg.
17-Aug-00	: B :	: Combine harvested.

Previous crops: S. barley 1998, s. linseed 1999.

NOTE: Plant samples were taken monthly April to August for biomass, nitrogen and sulphur content.

00/W/WW/23

GRAIN TONNES/HECTARE

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

S TIMING

-	5.75
T1	7.56
T2	6.88
T3	7.40
T4	5.48

Mean	6.62
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*** Standard errors of differences of means ***

S TIMING

0.402

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.568	8.6

GRAIN MEAN DM% 83.7

PLOT AREA HARVESTED 0.00192