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93/W/BS/1 Sulphur and Spring Barley - S. Barley

Rothamsted Research

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93/W/BS/1

SPRING BARLEY

SULPHUR AND SPRING BARLEY

Object: To measure the uptake of sulphur and effect of fertilizer sulphur on the yield of s. barley on light soil - Woburn, Lansome II.

Sponsors: S.P. McGrath, F. Zhao.

Design: 5 blocks of 2 plots, systematically arranged.

Whole plot dimensions: 5.0 x 10.0.

Treatments:

SULPHUR	Rates of sulphur (kg S):
S0	0
S4	40

NOTE: Sulphur was applied as K_2SO_4 , plots not given sulphur were given KCl to balance the potassium applied.

Experimental diary:

- 12-Mar-93 : B : Rotary harrowed.
- : B : Alexis dressed Cerevax Extra, drilled at 350 seeds per square metre, harrowed.
- 30-Mar-93 : T : **SULPHUR** S4: 40 kg S as K_2SO_4 .
- : T : **SULPHUR** S0: 97.4 kg K as KCl.
- : B : 34.5% N at 350 kg.
- 18-May-93 : B : Deloxil at 1.5 l and Astix at 2.0 l in 200 l.
- 22-Jun-93 : B : Dorin at 1.0 l in 200 l.
- 16-Aug-93 : B : Combine harvested.

NOTE: Soil samples were taken in autumn and spring for sulphate measurements, plant samples were taken throughout the season to monitor nitrogen and sulphur levels. Grain and straw samples were analysed for N and S concentrations.

93/W/BS/1

GRAIN TONNES/HECTARE

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

SULPHUR

S0	5.82
S4	5.85
Mean	5.83

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

SULPHUR

0.203

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.321	5.5
GRAIN MEAN DM%			88.9

STRAW TONNES/HECTARE

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

SULPHUR

S0	5.23
S4	5.33
Mean	5.28

STRAW MEAN DM% 82.7

PLOT AREA HARVESTED 0.00040