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

Rothamsted Research

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94/W/BS/1

SPRING BARLEY

SULPHUR AND SPRING BARLEY

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

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

Design: 5 x 5 Latin square.

Whole plot dimensions: 4.8 x 6.0.

Treatments:

SULPHUR Sulphur fertilizer (kg S), as potassium sulphate:

S0	0
S1	10
S2	20
S3	30
S4	40

NOTE: The potassium was balanced by applying potassium chloride to the S0-S3 plots at rates equivalent to the potassium applied to the S4 plots.

Experimental diary:

09-Feb-94 : B : Ploughed.

21-Mar-94 : B : Rotary harrowed, Alexis, dressed Panoctine Plus, drilled at 325 seeds per m².

25-Apr-94 : **T** : **SULPHUR** S1, S2, S3, S4: Potassium sulphate applied at 54.3, 108.7, 163.0 and 217.3 kg respectively.

: **T** : **SULPHUR** S0, S1, S2, S3: Potassium chloride applied at 186.3, 139.7, 93.0 and 46.7 kg respectively.

: B : 34.5% N at 348 kg.

19-May-94 : B : Vindex at 1.1 l with Duplosan New System CMPP at 2.0 l in 200 l.

12-Jun-94 : B : Radar at 0.5 l in 200 l.

23-Aug-94 : B : Combine harvested.

Previous crops: W. rape 1992, s. barley 1993.

NOTE: Samples of plants, grain and straw were taken for chemical analysis, grain quality was assessed and soils were sampled for sulphur content.

94/W/BS/1

GRAIN TONNES/HECTARE

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

SULPHUR	S0	S1	S2	S3	S4	Mean
	4.58	4.82	5.00	4.84	4.55	4.76

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

SULPHUR
0.169

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

Stratum	d.f.	s.e.	cv%
ROW.COL	12	0.266	5.6

GRAIN MEAN DM% 86.6

PLOT AREA HARVESTED 0.00128