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Yields of the Field Experiments 1994



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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:

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09-Feb-94 : B : Ploughed.
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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 1 with Duplosan New System CMPP at 2.0 1 in 200 1.

12-Jun-94 : B : Radar at 0.5 1 in 200 1.

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