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ROTHAMSTED RESEARCH

Yields of the Field Experiments 1994

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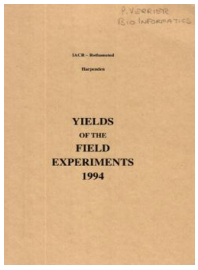

94/W/WW/1 Sulphur and Wheat - W. Wheat

Rothamsted Research

Rothamsted Research (1995) *94/W/WW/1 Sulphur and Wheat - W. Wheat ;* Yields Of The Field Experiments 1994, pp 95 - 96 **- DOI: https://doi.org/10.23637/ERADOC-1-49**

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94/W/WW/1

WINTER WHEAT

SULPHUR AND WHEAT

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

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

Design: 5 blocks of 2 plots, systematically arranged.

Plot dimensions: 5.0 x 10.0.

Treatments:

SULPHUR	Sulphur fertilizer (kg S), as potassium sulphate:
S0	0
S4	40

NOTE: The potassium was balanced by applying potassium chloride to the S0 plots.

Experimental diary:

20-Sep-93 : B : Ploughed.
16-Oct-93 : B : Rotary harrowed, Hereward, dressed Cerevax, drilled at 325 seeds per m^2.
10-Mar-94 : **T** : **SULPHUR** S0: Potassium chloride at 186 kg.
: **T** : **SULPHUR** S4: Potassium sulphate at 217 kg.
13-Apr-94 : B : 27% N at 415 kg.
27-Apr-94 : B : 27% N at 415 kg.
01-May-94 : B : Oxytril CM at 1.5 l with Duplosan New System CMPP at 2.0 l and Halo at 1.5 l in 200 l.
30-May-94 : B : Cyclone at 1.0 l with Mistral at 0.5 l in 200 l.
14-Jun-94 : B : Hostathion at 0.84 l in 200 l.
22-Aug-94 : B : Combine harvested.

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

NOTE: Samples of grain and straw were taken for chemicals analysis and grain was tested for baking quality. Soil was also sampled for sulphur content.

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94/W/WW/1

GRAIN TONNES/HECTARE

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

SULPHUR	
S0	5.08
S4	5.27
Mean	5.17

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

SULPHUR
0.255

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.403	7.8

GRAIN MEAN DM% 88.2

STRAW TONNES/HECTARE

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

SULPHUR	
S0	3.80
S4	4.46
Mean	4.13

STRAW MEAN DM% 86.1

PLOT AREA HARVESTED 0.00220

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