ROTHAMSTED RESEARCH

Yields of the Field Experiments 1997

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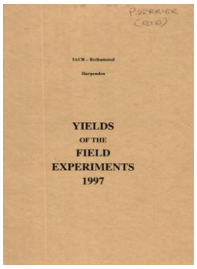

97/W/RAW/1 Diagnosis of S Deficiency - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (1998) *97/W/RAW/1 Diagnosis of S Deficiency - W. Oilseed Rape ;* Yields Of The Field Experiments 1997, pp 130 - 131 **- DOI: https://doi.org/10.23637/ERADOC-1-53**

97/W/RAW/1

WINTER OILSEED RAPE

DIAGNOSIS OF S DEFICIENCY

Object: To study the effects of rates of sulphur on the yield and sulphur content of winter oilseed rape - Woburn, Far Field II.

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

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments:

SULPHUR	Sulphur as gypsum (17.5% S) kg S:
S0	0
S1	5
S2	10
S3	20
S4	40
S5	80

Experimental diary:

02-Sep-96 : **T** : **SULPHUR** 5, 10, 20, 40, 80: Gypsum applied at 28.6, 57.1, 114, 229, 457 kg respectively.
02-Sep-96 : B : Drilled Apex, dressed Lindex-Plus FS at 6.6 kg per ha.
24-Jul-97 : B : Reglone at 3.0 l with Vassgro Non-ionic at 400 ml in 400 l.
05-Aug-97 : B : Combine harvested.

Previous crops: Potatoes 1995, w. wheat 1996.

NOTE: Plant samples were taken on four occasions between March and May to measure total sulphur content, sulphate-S and glutathione.

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97/W/RAW/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR	
S0	4.51
S1	4.17
S2	4.39
S3	4.44
S4	4.27
S5	4.33
Mean	4.35

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

SULPHUR
0.151

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.213	4.9

GRAIN MEAN DM% 90.6

PLOT AREA HARVESTED 0.00288

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