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Yields of the Field Experiments 1994



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Rothamsted Research

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94/W/RAW/3

WINTER OILSEED RAPE

SULPHUR AND NITROGEN

Object: To determine the effects of various rates of sulphur fertilizer on the yield and sulphur content of winter oilseed rape grown at various rates of nitrogen fertilizer - Woburn, Butt Close.

Sponsors: S.P. McGrath, F. Zhao, G.F.J. Milford.

Design: 4 randomised blocks of 3 x 4 plots.

Whole plot dimensions: 4.0 x 10.0.

Treatments: All combinations of:-

1.	NITROGEN	Fertilizer nitrogen (kg N), as Nitro-Chalk:
	N1	100
	N2	180
	N3	230
2.	SULPHUR	Fertilizer sulphur (kg S), as gypsum (17.6% S):
	S0	0
	S1	10
	S2	20
	94	40

Experimental diary:

- 23-Aug-93 : B : Ploughed.
- 24-Aug-93 : B : Rolled.
- 07-Sep-93 : B : Rotary harrowed, Libravo, dressed Lindex-Plus FS, drilled at 7.0 kg.
- 30-Sep-93 : B : 27% N at 50 kg.
- 10-Feb-94 : B : Carbetamex at 2.0 kg with Benazalox at 1.25 kg in 200 l. 04-Mar-94 : T : NITROGEN N1, N2, N3: 27% N at 185.2, 333.2 and 426.0 kg

respectively.

- 10-Mar-94: T: SULPHUR S1, S2, S4: Gypsum at 56.8, 113.8 and 227.2 kg respectively.
- 08-Apr-94 : T : NITROGEN N1, N2, N3: 27% N at 185.2, 333.2 and 426.0 kg respectively.
- 05-Aug-94 : B : Combine harvested.

Previous crops: W. rape, summer fallow 1992, w. wheat 1993.

NOTE: Plants were sampled throughout the season for sulphur and nitrogen content, soil was also sampled pre-sowing and post-harvest for sulphur content.

94/W/RAW/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR NITROGEN	S0	S1	S2	S4	Mean
N1	1.06	1.22	1.37	1.05	1.18
N2	1.25	1.86	2.09	2.14	1.84
N3	0.79	2.00	2.08	2.11	1.75
Mean	1.03	1.69	1.85	1.77	1.59

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

NITROGEN	SULPHUR	NITROGEN	
		SULPHUR	
0.169	0.195	0.338	

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

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 33
 0.478
 30.1

GRAIN MEAN DM% 87.0

PLOT AREA HARVESTED 0.00176