

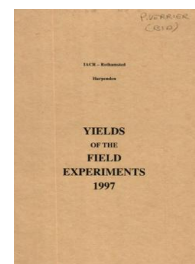
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97/W/RAS/1 Sulphur for Spring Oilseed Rape - S. Oilseed Rape

Rothamsted Research

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97/W/RAS/1

SPRING OILSEED RAPE

SULPHUR FOR SPRING OILSEED RAPE

Object: To study the effects of rates of sulphur fertilizer on the yield and sulphur content of spring oilseed rape - Woburn, Stackyard I.

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

Design: 5 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

| SULPHUR | Sulphur as potassium sulphate (kg S): |
|---------|---------------------------------------|
| S0 | 0 (duplicated) |
| S1 | 10 |
| S2 | 20 |
| S4 | 40 |

NOTE: Potassium chloride was applied to balance the potassium to supply 111 kg K₂O.

Experimental diary:

- 13-Nov-97 : B : Ploughed.
- 26-Mar-97 : B : Heavy spring-tine cultivated.
- 02-Apr-97 : B : 34.5% N at 290 kg.
- 18-Apr-97 : T : **SULPHUR** S1, S2, S4: Potassium sulphate at 56, 111, 222 kg respectively.
- : T : **SULPHUR** S0, S1, S2: Muriate of potash at 185, 138, 93 kg respectively.
- : B : Rotary harrowed, Starlight, dressed Lindex-Plus FS, drilled at 250 seeds per m².
- 02-Sep-97 : B : Combine harvested.

Previous crops: W. wheat 1995, w. rye 1996.

NOTE: Samples were taken on three occasions between green-bud and mid-flowering for analysis of sulphur, sulphate-S and glutathione.

97/W/RAS/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR

| | |
|----|------|
| S0 | 1.97 |
| S1 | 2.07 |
| S2 | 2.01 |
| S4 | 2.03 |

| | |
|------|------|
| Mean | 2.01 |
|------|------|

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

SULPHUR

| | |
|-------|---------|
| 0.077 | min.rep |
| 0.066 | max-min |

SULPHUR

| | |
|---------|---------------------------|
| min.rep | Any of the remainder |
| max-min | S0 v any of the remainder |

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|-----|
| BLOCK.WP | 17 | 0.121 | 6.0 |
| GRAIN MEAN DM% | 88.7 | | |
| PLOT AREA HARVESTED | 0.00286 | | |