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ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1979

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### 79/R/WW/7 Effects of Sulphur - W. Wheat

#### Rothamsted Research

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79/R/WW/7

WINTER WHEAT

EFFECTS OF SULPHUR

Object: To study the effects of sulphur on amino acid content, flour quality and yield of winter wheat - Webbs.

Sponsors: B.J. Mifflin, M.A. Kirkman.

Design: 3 randomised blocks of 6 plots.

Whole plot dimensions: 2.66 x 7.62.

Treatments:

| N S     | Rates and times of nitrogen and sulphur fertilisers (kg element): |                    |                                |         |
|---------|---|--------------------|--------------------------------|---------|
|         | Nitrogen  |                    | Sulphur, as potassium sulphate |         |
|         | 19 Apr as<br>'Nitro-Chalk'  | 29 June<br>as urea | 3 May                          | 29 June |
| NEO S00 | 120   | 0                  | 0                              | 0       |
| NEO SE0 | 120   | 0                  | 20                             | 0       |
| NEL S00 | 120   | 80                 | 0                              | 0       |
| NEL SE0 | 120   | 80                 | 20                             | 0       |
| NEL SOL | 120   | 80                 | 0                              | 20      |
| NEL SEL | 120   | 80                 | 20                             | 20      |

NOTE: Urea and potassium sulphate were applied, either singly or together, in 1000 l.

Basal applications: Manures: (10:23:23) at 250 kg. Weedkillers: Paraquat at 0.42 kg ion in 220 l. Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 2.5 kg in 220 l).

Seed: Flinor, sown at 190 kg.

Cultivations, etc.: - Deep-tine cultivated twice: 31 Aug, 1978 and 1 Sept. Heavy spring-tine cultivated: 14 Sept. NPK applied: 17 Oct. Paraquat applied: 18 Oct. Disc harrowed: 23 Oct. Seed sown: 25 Oct. 'Brittox' applied: 14 May. Combine harvested: 30 Aug. Previous cropping: Barley 1977, barley 1978.

NOTE: The grain was tested for bread making quality, N and sulphur content.

79/R/WW/7

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

|         | N    | S |
|---------|------|---|
| NEO S00 | 5.24 |   |
| NEO SE0 | 5.39 |   |
| NEL S00 | 5.27 |   |
| NEL SE0 | 5.26 |   |
| NEL S0L | 5.60 |   |
| NEL SEL | 5.15 |   |
| MEAN    | 5.32 |   |

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

| TABLE | N     | S |
|-------|-------|---|
| SED   | 0.249 |   |

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

| STRATUM  | DF | SE    | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 10 | 0.306 | 5.7 |

GRAIN MEAN DM% 87.2

PLOT AREA HARVESTED 0.00203