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

Rothamsted Research

Rothamsted Research (1980) *79/R/WW/7 Effects of Sulphur - W. Wheat* ; Yields Of The Field Experiments 1979, pp 277 - 278 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

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 'Nitro-Chalk' | 29 June 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