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00/W/CS/527 Sulphur and Malting Barley

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00/W/CS/527

SULPHUR AND MALTING BARLEY

Object: To test types and rates of sulphur fertilizer on the yield and quality of winter malting barley - Woburn, Butt Close II.

Sponsors: F.J. Zhao.

Design: 4 randomised blocks of 5 plots.

Plot dimensions: 3.0 x 12.0.

Treatments:-

| SULPHUR | Kg of sulphur as gypsum (17.5% S) or Thiovit (80% S): |
|---------|---|
| S0 | None |
| S1 | 10 (gypsum) |
| S2 | 20 (gypsum) |
| S4 | 40 (gypsum) |
| S2T | 20 (Thiovit) |

Experimental diary:

06-Sep-99 : B : : Ploughed and furrow pressed.
14-Sep-99 : B : : Dutch harrowed.
 : B : : Drilled, Regina, tr. Raxil S, at 300 seeds/m² with the Accord drill.
12-Oct-99 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.
 : B : : tm)Cyberkill 10 at 250 ml in 200 l.
 : B : : tm)Isoguard at 1.0 l in 200 l.
23-Mar-00 : T : S1,S2,S4 : Gypsum at 57, 114 and 229 kg respectively.
 : T : S2T : Thiovit at 25 kg.
 : B : : 34.5% N at 145 kg.
08-May-00 : B : : tm)Vytel Manganese at 3.0 l in 200 l.
 : B : : tm)Amistar at 0.5 l in 200 l.
 : B : : tm)Folicur at 0.5 l in 200 l.
 : B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
09-May-00 : B : : 34.5% N at 217 kg.
20-May-00 : B : : tm)Amistar at 0.8 l in 200 l.
 : B : : tm)Opus at 0.5 l in 200 l.
31-Jul-00 : B : : Combine harvested.

Previous crops: W. wheat 1998, s. peas 1999.

NOTE: Crop samples were taken at stem extension and grain at harvest for nitrogen and sulphur content. Grain was also tested for malting quality.

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GRAIN TONNES/HECTARE

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

SULPHUR

| | |
|-----|------|
| S0 | 3.17 |
| S1 | 4.11 |
| S2 | 3.91 |
| S4 | 4.21 |
| S2T | 4.75 |

| | |
|------|------|
| Mean | 4.03 |
|------|------|

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

SULPHUR

0.470

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|------|
| BLOCK.WP | 12 | 0.665 | 16.5 |
| GRAIN MEAN DM% | 86.5 | | |
| PLOT AREA HARVESTED | 0.00240 | | |