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88/R/B/10 Harvest Dates and Malting Quality - S. Barley

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88/R/B/10

SPRING BARLEY

HARVEST DATES AND MALTING QUALITY

Object: To investigate the effects of harvest date on yield and malting quality of spring barley - Bones Close.

Sponsor: J.F. Jenkyn.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

| HARVDATE | Date of harvest: |
|----------|-----------------------------------------|
| NOGRN | Green tissue virtually absent |
| NOGRN+10 | Green tissue virtually absent + 10 days |
| OPT | Optimum maturity |
| OPT+10 | Optimum maturity + 10 days |
| OPT+20 | Optimum maturity + 20 days |

NOTE: Above stages were targets. Actual dates of harvest were 12 Aug, 1988, 18 Aug, 26 Aug, 5 Sept, 13 Sept.

Basal applications: Manures: 'Nitram' at 220 kg. Weedkillers: Mecoprop at 2.4 kg with clopyralid at 0.05 kg and bromoxynil at 0.24 kg in 200 l. Fungicides: Fenpropimorph at 0.75 kg in 200 l. Propiconazole at 0.12 kg and tridemorph at 0.25 kg in 200 l.

Seed: Triumph, dressed triadimenol and fuberidazole, sown at 160 kg.

Cultivations, etc.:- Cultivated by rotary digger and deep-tine cultivated with vibrating tines about 60 cm apart, 45 cm deep: 12 Dec, 1987. Heavy spring-tine cultivated, N applied, rotary harrowed, seed sown: 7 Mar, 1988. Weedkillers applied: 11 May. Fenpropimorph applied: 17 May. Remaining fungicides applied: 16 June. Previous crops: W. barley 1986, potatoes 1987.

NOTE: Malting quality was assessed on the grain.

88/R/B/10

GRAIN TONNES/HECTARE

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

| HARVDATE | |
|----------|------|
| NOGRN | 8.70 |
| NOGRN+10 | 8.57 |
| OPT | 8.17 |
| OPT+10 | 7.86 |
| OPT+20 | 7.81 |
| Mean | 8.22 |

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

| HARVDATE |
|----------|
| 0.334 |

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|-----|
| BLOCK.WP | 12 | 0.472 | 5.7 |
| GRAIN MEAN DM% | 79.7 | | |
| PLOT AREA HARVESTED | 0.00378 | | |