

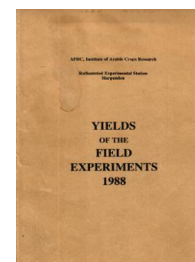
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88/R/B/10 Harvest Dates and Malting Quality - S. Barley

Rothamsted Research

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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		