

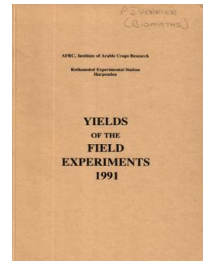
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91/R/BS/3 Varieties and Harvest Dates - S. Barley

Rothamsted Research

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91/R/BS/3

SPRING BARLEY

VARIETIES AND HARVEST DATES

Object: To study the effects of harvest dates on the yield and malting quality of three varieties differing in their quality and dormancy characteristics - Stackyard.

Sponsor: J.F. Jenkyn.

Design: 3 randomised blocks of 15 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **VARIETY** Varieties:

BLLENHEIM
REGATTA
TRIUMPH

2. **HARVDATE** Dates of harvest:

1	15 Aug, 1991
2	21 Aug
3	27 Aug
4	2 Sept
5	10 Sept

NOTE: An additional replicate was sown to provide material to flush the combine harvester of extraneous grain before each treatment combination.

Basal applications: Manures: Magnesian limestone at 5.0 t. 'Nitram' at 290 kg. Weedkillers: Paraquat at 0.60 kg ion in 200 l. Metsulfuron-methyl at 6.0 g in 200 l. Fungicides: Tridemorph at 0.52 kg in 200 l. Fenpropimorph at 0.75 kg with the insecticide in 200 l. Insecticide: Pirimicarb at 0.14 kg.

Seed: Varieties, dressed ethirimol, flutriafol and thiabendazole, sown at 350 seeds per square metre.

Cultivations, etc.:- Magnesian limestone applied: 31 July, 1990. Ploughed, furrow pressed: 3 Sept. Paraquat applied: 12 Mar, 1991. Heavy spring-tine cultivated: 15 Mar. Spring-tine cultivated: 22 Mar. N applied, rotary harrowed, seed sown: 25 Mar. Tridemorph applied: 4 June. Metsulfuron-methyl applied: 11 June. Fenpropimorph with pirimicarb applied: 10 July. Previous crops: W. wheat 1989, w. oats 1990.

91/R/BS/3

GRAIN TONNES/HECTARE

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

HARVDATE VARIETY	1	2	3	4	5	Mean
BLLENHEIM	6.69	6.76	6.61	6.69	6.51	6.65
REGATTA	6.88	6.73	6.77	6.73	6.65	6.75
TRIUMPH	6.56	6.52	6.10	6.19	6.32	6.34
Mean	6.71	6.67	6.49	6.54	6.49	6.58

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

VARIETY	HARVDATE	VARIETY HARVDATE
0.073	0.095	0.164

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	28	0.201	3.1

GRAIN MEAN DM% 84.4

PLOT AREA HARVESTED 0.00150