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82/R/B/6 and 82/W/B/6 Varieties and N - Spring Barley

Rothamsted Research

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82/R/B/6 and 82/W/B/6

SPRING BARLEY

VARIETIES AND N

Object: To study the yields of some of the newer varieties of s. barley at three rates of nitrogen - Rothamsted (R), Sawyers II and Woburn (W), Horsepool Lane Close W.

Sponsor: R. Moffitt.

Design: 2 randomised blocks of 3 plots split into 8.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

Whole plots

1. N Nitrogen fertilizer (kg N):

75
113
150

Sub plots

2. VARIETY Varieties:

ATEM	Atem
ATHOS	Athos
CARNIVAL	Carnival
CLARET	Claret
KORU	Koru
MIXTURE	Mixture of Athos, Claret and Koru
REGENT	Regent
TRIUMPH	Triumph

Basal applications:

Sawyers II (R): Weedkillers: Dicamba with mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l applied with the fungicide. Fungicide: Tridemorph at 0.53 kg.

Horsepool Lane Close W. (W): Weedkillers: Mecoprop with bromoxynil and ioxynil (as 'Brittox' at 3.5 l) in 280 l. Glyphosate at 2.0 kg in 280 l. Fungicide: Tridemorph at 0.53 kg in 280 l.

Seed: Sawyers II (R): Sown at 180 kg.

Horsepool Lane Close W. (W): Sown at 160 kg.

Cultivations, etc.:-

Sawyers II (R): Ploughed: 21 Jan, 1982. Spring-tine cultivated: 30 Mar. Rotary harrowed, seed sown: 3 Apr. N applied: 23 Apr. 'Poly-Farmon' and fungicide applied: 17 May. Combine harvested: 17 Aug. Previous crops: Potatoes 1980, w.wheat 1981.

Horsepool Lane Close W. (W): Heavy spring-tine cultivated twice, spring-tine cultivated with crumbler attached: 2 Apr, 1982. Seed sown: 3 Apr. N applied: 27 Apr. 'Brittox' applied: 17 May. Fungicide applied: 1 June. Glyphosate applied: 10 Aug. Combine harvested: 20 Aug. Previous crops: W. oats 1980, potatoes 1981.

82/R/B/6 SAWYERS II (R)

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

	N	75	113	150	MEAN
VARIETY					
ATEM		6.64	6.75	5.79	6.39
ATHOS		7.17	6.97	7.00	7.05
CARNIVAL		6.72	7.31	7.11	7.05
CLARET		7.52	7.03	6.86	7.14
KORU		7.61	6.26	5.95	6.60
MIXTURE		7.45	7.20	6.63	7.09
REGENT		7.51	6.73	6.37	6.87
TRIUMPH		7.53	7.78	7.27	7.53
MEAN		7.27	7.00	6.62	6.97

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	N	VARIETY	N	VARIETY

SED	0.158	0.185	0.338	
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
N			0.320	

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP.SP	21	0.320	4.6
GRAIN MEAN DM%	83.9		
SUB PLOT AREA HARVESTED	0.00204		

82/W/B/6 HORSEPOOL LANE CLOSE (W)

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

	N	75	113	150	MEAN
VARIETY					
ATEM		6.71	7.17	6.47	6.78
ATHOS		5.79	6.59	6.31	6.23
CARNIVAL		5.10	6.33	6.06	5.83
CLARET		7.54	6.90	6.38	6.94
KORU		4.91	5.10	5.05	5.02
MIXTURE		7.09	7.01	5.89	6.67
REGENT		6.54	6.76	6.30	6.53
TRIUMPH		6.19	6.20	6.52	6.30
MEAN		6.23	6.51	6.12	6.29

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	N	VARIETY	N	VARIETY

SED	0.662	0.345	0.867	
EXCEPT WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:				
N			0.598	

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP.SP	21	0.598	9.5
GRAIN MEAN DM%	81.5		
SUB PLOT AREA HARVESTED	0.00212		