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Yields of the Field Experiments 1965

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65/R/RB101/DB/1AND 65/W/WB101/DB/1 Barley - Row Spacing

Rothamsted Research

Rothamsted Research (1966) *65/R/RB101/DB/1AND 65/W/WB101/DB/1 Barley - Row Spacing* ; Yields Of The Field Experiments 1965, pp 253 - 255 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/Db/1.1

BARLEY

(RB 101 and WB 101)

Row spacing, seed rates and N - Rothamsted (R) Great Knott II
and Woburn (W) Horsepool 1965.

Design: 4 randomised blocks of 8 plots, split into 3 for N.

Area of each sub plot: Great Knott II (R): 0.0051.

Area harvested: 0.0051.

Horsepool (W): 0.0045.

Area harvested: 0.0045.

Treatments: All combinations of:-

Whole plots:

1. Row spacing etc.:

Seed broadcast, PK** broadcast

(B)

Seed drilled, 4 inch rows, PK broadcast

(C)

Seed drilled, 7 inch rows, PK broadcast

(W)

Seed drilled, 7 inch rows, with PK combine drilled

(W*)

2. Seed rates: 112 lb (L), 224 lb (H).

Sub plots:

3. Nitrogen: 0.4 (N1), 0.7 (N2), 1.0 (N3) cwt N as
'Nitro-Chalk'.

** (0:20:20) to all plots - rate 224 lb.

Basal applications: Weedkiller: Mecoprop/2,4-D (Methoxone Extra
at 6 pints, in 34 gals on Great Knott II (R), in 40 gals on
Horsepool (W)).

Cultivations, etc.:

Great Knott II (R): Ploughed: Nov 10 - 21, 1964. Seed sown,
fertilisers applied: Mar 29, 1965. Sprayed: May 13.

Combine harvested: Sept 1. Variety: Maris Badger.

Previous crops: Potatoes 1963, winter wheat 1964.

Horsepool (W): Ground chalk applied at 36 cwt: Oct 14, 1964.

Ploughed: Nov 18. Fertilisers applied, seed sown:

Mar 15, 1965. Sprayed: May 10. Combine harvested:

Sept 20. Variety: Maris Badger. Previous crops:

Potatoes 1963, winter wheat 1964.

NOTE: Emergence counts were made on Apr 29, 1965 on Great
Knott II (R).

65/Db/1.2

Standard errors per plot. Grain:

Great Knott II (R): Whole plot: 1.73 or 3.9% (21 d.f.)

Sub plot: 2.12 or 4.8% (48 d.f.)

Horsepool (W): Whole plot: 2.49 or 5.1% (21 d.f.)

Sub plot: 3.58 or 7.3% (48 d.f.)

SUMMARY OF RESULTS

GRAIN

ROTHAMSTED

	B	C	W	W*	Mean
	(±0.87)				(±0.43)
L	37.6	46.6	46.1	45.9	44.1
H	42.5	46.6	44.6	46.7	45.1
	(1) and (2)				(±0.38)
N1	41.6	48.0	47.9	48.9	46.6
N2	39.9	46.7	44.6	45.9	44.3
N3	38.7	45.0	43.7	44.1	42.9
Mean (±0.61)	40.1	46.6	45.4	46.3	44.6
	L	H			
	(3) and (4)				
N1	46.3	46.9			
N2	43.5	45.1			
N3	42.4	43.3			

Mean D.M. %: 74.7

(1) ±0.75 For use in vertical and interaction comparisons.

(2) ±0.87 For use in horizontal and diagonal comparisons.

(3) ±0.53 For use in vertical and interaction comparisons.

(4) ±0.61 For use in horizontal and diagonal comparisons.

65/Db/1.3

GRAIN					
WOBBURN					
	B	C	W	W*	Mean
	(±1.25)				(±0.62)
L	49.2	52.1	50.8	49.7	50.5
H	49.9	47.7	45.6	46.2	47.3
	(1) and (2)				(±0.63)
N1	51.0	51.3	49.9	49.0	50.3
N2	50.2	49.8	49.6	48.9	49.6
N3	47.4	48.6	45.1	46.0	46.8
Mean (±0.88)	49.5	49.9	48.2	48.0	48.9
	L	H			
	(3) and (4)				
N1	51.9	48.8			
N2	52.3	46.9			
N3	47.2	46.3			

Mean D.M. %: 78.1

- (1) ±1.26 For use in vertical and interaction comparisons.
- (2) ±1.36 For use in horizontal and diagonal comparisons.
- (3) ±0.89 For use in vertical and interaction comparisons.
- (4) ±0.96 For use in horizontal and diagonal comparisons.