

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1965

[Full Table of Content](#)



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

RCHAMSTED

	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/D₀/1.3

GRAIN					
WOBURN					
	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.