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Yields of the Field Experiments 1964

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64/R/RB201/DB/2 and 64/W/WB201/DB/2 Barley - Row Spacing

Rothamsted Research

Rothamsted Research (1965) *64/R/RB201/DB/2 and 64/W/WB201/DB/2 Barley - Row Spacing* ; Yields Of The Field Experiments 1964, pp 217 - 219 - DOI: <https://doi.org/10.23637/ERADOC-1-160>

64/Db/2.1

BARLEY

(RB 201 and WB 201)

Row spacing, seed rates and N - Rothamsted (R) Great Knott III and Woburn (W) Butt Close 1964.

Design (each field): 4 randomised blocks of 8 plots each, plots being split into 3 for application of N.

Area of each sub plot: 0.0056 acres.

Treatments: All combinations of:-

- Whole plots. (1) Row spacing: Seed and PK* broadcast (B): seed drilled, 4 inches between rows, PK broadcast (C): seed drilled, 7 inch rows, PK broadcast (W): seed drilled, 7 inch rows, PK combine drilled (W*).
- (2) Seed rates: 2 (L), 4 (H) bushel.
- Sub plots. (3) Nitrogen: 0.4 (N1): 0.7 (N2): 1.0 (N3) cwt N as 'Nitro-Chalk', broadcast.

* (0:20:20) to all plots - rate 2 cwt.

Cultivations, etc.:

Great Knott III (R): Ploughed twice: Sept 26 - Nov 26, 1963 and Jan 6, 1964. Seed sown: Mar 12. 'Nitro-Chalk' and broadcast PK applied: Plots 201-208 - Mar 18, remaining plots - Mar 26. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals): May 14. Combine harvested: Aug 21. Variety: Maris Badger. Previous crops: Potatoes 1962, winter wheat 1963.

Butt Close (W): Ploughed twice: Oct 2, 1963 and Jan 6, 1964. 'Nitro-Chalk' and broadcast PK applied: Feb 26. Seed sown: Mar 11. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gals): May 6. Combine harvested: Aug 25. Variety: Maris Badger. Previous crops: Spring beans and carrots 1962, winter wheat 1963.

NOTES (1). Great Knott III (R): There was a drill failure on all sub plots of plot RB 205 (Treatment W*L). Estimated values were used in the analysis.

(2). Butt Close (W): Two blocks (plots WB 209 - 216 and 225 - 232) were abandoned because of poor stands and much weed growth.

Standard errors per plot. Grain:

Great Knott III (R)	Whole plot: 2.20 or 4.4% (20 d.f.)
	Sub plot: 3.00 or 6.0% (46 d.f.)
Butt Close (W)	Whole plot: 2.23 or 7.5% (7 d.f.)
	Sub plot: 4.52 or 15.1% (16 d.f.)

64/Db/2.2

SUMMARY OF RESULTS

GRAIN

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	B	C	W	W*	Mean
	(±1.10)				(±0.55)
L	52.1	50.8	48.8	48.6	50.1
H	52.5	50.3	46.0	48.2	49.3
	(1) and (2)				(±0.53)
N1	48.4	45.7	42.8	44.3	45.3
N2	54.2	51.0	48.5	49.6	50.8
N3	54.3	54.9	51.0	51.3	52.9
Mean (±0.78)	52.3	50.5	47.4	48.4	49.7
	L	H			
	(3) and (4)				
N1	45.3	45.2			
N2	51.5	50.2			
N3	53.3	52.4			

Mean D.M. %: 85.9

(1) ±1.06 (3) ±0.75. For use in vertical and interaction comparisons.

(2) ±1.16 (4) ±0.82. For use in horizontal and diagonal comparisons.

64/Db/2.3

GRAIN					
WOBBURN					
	B	C	W	W*	Mean
	(±1.58)				(±0.79)
L	26.2	30.1	29.9	33.0	29.8
H	30.8	29.7	29.2	30.4	30.0
	(1) and (2)				(±1.13)
N1	20.0	22.7	19.3	21.9	21.0
N2	29.2	30.8	31.5	29.8	30.3
N3	36.3	36.2	37.9	43.5	38.5
Mean (±1.11)	28.5	29.9	29.6	31.7	29.9
	L	H			
	(3) and (4)				
N1	20.8	21.2			
N2	30.0	30.6			
N3	38.6	38.3			

Mean D.M. %: 85.4

(1) ±2.26 (3) ±1.60. For use in vertical and interaction comparisons.

(2) ±2.16 (4) ±1.53. For use in horizontal and diagonal comparisons.