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Yields of the Field Experiments 1966

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66/R/RB101/DB/1AND 66/W/WB101/DB/1 Barley - Row Spacing

Rothamsted Research

Rothamsted Research (1967) *66/R/RB101/DB/1AND 66/W/WB101/DB/1 Barley - Row Spacing* ; Yields Of The Field Experiments 1966, pp 263 - 265 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/Db/1.1

BARLEY

(RB101 and WB101)

Row spacing, seed rates and N - Rothamsted (R) Whittlocks N.E. and Woburn (W) Horsepool E. 1966.

Design: 2 replicates of 4 x 2 x 4 factorial arranged in 4 blocks of 8 whole plots, with N on half plots. (3 - 2 + 1 - 0 on whole plots.)

Area of each sub-plot: 0.0069. Area harvested: 0.0069.

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: 110 lb (L), 220 lb (H).

Sub-plots:

3. Nitrogen: None, 0.4, 0.7, 1.0 cwt N as 'Nitro-Chalk'.

** (0:20:20) to all plots - rate 220 lb.

Basal applications: Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 36 gals).

Cultivations, etc.:

Whittlocks N.E. (R): Ploughed: Nov 1-9, 1965. Seed sown, fertilisers applied: Mar 10, 1966. Sprayed: May 11. Combine harvested: Aug 19. Variety: Maris Badger. Previous crops: Potatoes 1964, winter wheat 1965.

Horsepool E. (W): Ploughed: Oct 28, 1965. PK fertiliser applied and seed sown: Mar 11, 1966. 'Nitro-Chalk' applied: Mar 14. Sprayed: May 13. Combine harvested: Aug 19. Variety: Maris Badger. Previous crops: Potatoes 1964, barley 1965.

Standard errors per plot. Grain:

Whittlocks N.E. (R)	Whole plot: 2.10 or 4.6% (14 d.f.)
	Sub plot: 2.18 or 4.7% (16 d.f.)
Horsepool E. (W)	Whole plot: 2.10 or 4.4% (14 d.f.)
	Sub plot: 3.67 or 7.7% (16 d.f.)

66/D6/1.2

SUMMARY OF RESULTS

WHITFLOCKS N.E. (R)

GRAIN

	B	C	W	W*	Mean
Mean (± 0.74)	45.8	45.9	47.1	45.7	46.1
	(± 1.05)				(± 0.53)
L	46.1	45.8	48.8	46.3	46.8
H	45.6	45.9	45.4	45.0	45.5
	(1) and (2)				(3) and (4)
NO	36.2	37.6	39.8	36.9	37.6
N1	48.1	47.8	49.5	48.2	48.4
N2	50.6	48.9	49.9	48.3	49.4
N3	48.5	49.2	49.3	49.3	49.0
	L	H			
	(5) and (6)				
NO	39.4	35.8			
N1	47.9	48.9			
N2	50.5	48.3			
N3	49.2	48.8			

- (1) (± 1.84) and (5) (± 1.30) For use in vertical and interaction comparisons involving N3-N1 or N2-NO
 (2) (± 1.30) and (6) (± 0.92) For use in all other comparisons
 (3) (± 0.55) For use in comparisons N3-N1 or N2-NO
 (4) (± 0.65) For use in all other comparisons

66/Db/1.3

HORSEPOOL E. (W)

GRAIN

	B	C	W	W*	Mean
Mean (± 0.74)	47.2	47.6	48.1	46.7	47.4
	(± 1.05)				(± 0.52)
L	47.2	49.1	50.1	47.1	48.4
H	47.3	46.1	46.1	46.4	46.5
	(1) and (2)				(3) and (4)
N0	46.0	43.3	45.6	42.6	44.4
N1	48.6	51.3	49.8	48.4	49.5
N2	51.4	49.0	49.5	49.7	49.9
N3	43.0	47.0	47.7	46.3	46.0
	L	H			
	(5) and (6)				
N0	44.4	44.4			
N1	50.8	48.2			
N2	52.2	47.6			
N3	46.3	45.7			

- (1) (± 1.84) and (5) (± 1.30) For use in vertical and interaction comparisons involving N3-N1 or N2-N0
 (2) (± 1.67) and (6) (± 1.18) For use in all other comparisons
 (3) (± 0.92) For use in comparisons N3-N1 or N2-N0
 (4) (± 0.83) For use in all other comparisons