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Yields of the Field Experiments 1965

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65/R/RW201/DA/2 Winter Wheat and Spring Wheat - Varieties and N

Rothamsted Research

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65/Da/3.1

WINTER WHEAT

(RW 401 and WW 101)

Row spacing, seed rates and N - Rothamsted (R) Whittlocks and Woburn (W) Broadmead III 1965.

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

Area of each sub plot: 0.0045.

Treatments: All combinations of:-

Whole plots:

1. Row spacing etc.:

- Seed broadcast, autumn fertiliser** broadcast (B)
- Seed drilled, 4 inch rows, autumn fertiliser broadcast (C)
- Seed drilled, 7 inch rows, autumn fertiliser broadcast (W)
- Seed drilled, 7 inch rows, with autumn fertiliser combine drilled. (W*)

2. Seed rates:

- Whittlocks (R): 128 lb (L), 236 lb (H)
- Broadmead I (W): 139 lb (L), 231 lb (H).

Sub plots:

3. Nitrogen: 0.4 (N1), 0.8 (N2), 1.2 (N3) cwt N as 'Nitro-Chalk' broadcast in spring.

** (6:15:15) to all plots - rate 330 lb.

Basal application: Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals).

Cultivations, etc.:-

Whittlocks (R): Chisel ploughed: Oct 5, 1964. Seed sown, autumn fertiliser applied: Oct 27. 'Nitro-Chalk' applied: Apr 14, 1965. Sprayed: Apr 30. Combine harvested: Sept 14. Variety: Cappelle. Previous crops: Spring wheat 1963, potatoes 1964.

Broadmead III (W): Chisel ploughed: Oct 17, 1964. Autumn fertiliser applied, seed sown: Oct 23. 'Nitro-Chalk' applied: Apr 7. Sprayed: May 6. Combine harvested: Sept 15. Variety: Cappelle. Previous crops: Barley 1963, potatoes 1964.

NOTE: Whittlocks (R)

- (1) Plant counts were made on Mar 18, 1965.
- (2) Owing to a fault in the combine harvester the yields from two adjacent sub plots (WL N2 and WL N3) were bulked. Estimated yields were used in the analysis.

65/Da/3.2

Standard errors per plot. Grain:

Whittlocks (R) Whole plot: 2.24 or 5.6% (20 d.f.)
 Sub plot: 2.13 or 5.3% (47 d.f.)
 Broadmead III (W) Whole plot: 2.07 or 5.5% (21 d.f.)
 Sub plot: 5.80 or 15.4% (48 d.f.)

SUMMARY OF RESULTS

GRAIN

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	B	C	W	W*	Mean
	(±1.12)				(±0.56)
L	44.3	42.7	44.0	42.8	43.5
H	37.6	36.4	35.2	36.7	36.5
	(1) and (2)				(±0.38)
N1	44.6	44.1	42.9	43.7	43.8
N2	39.4	39.2	39.9	40.2	39.7
N3	38.8	35.3	36.1	35.4	36.4
Mean (±0.79)	40.9	39.6	39.6	39.8	40.0
	L	H			
	(3) and (4)				
N1	46.4	41.2			
N2	43.6	35.8			
N3	40.4	32.5			

Mean D.M. %: 78.5

(1) ±0.75 (3) ±0.53 For use in vertical and interaction comparisons.
 (2) ±1.00 (4) ±0.71 For use in horizontal and diagonal comparisons.

65/Da/3.3

		GRAIN				
		WOBURN				
		B	C	W	W*	Mean
		(±1.04)				(±0.52)
L		42.4	38.9	37.8	39.8	39.7
H		38.0	35.5	35.3	34.1	35.7
		(1) and (2)				(±1.03)
N1		45.3	39.0	39.3	39.8	40.8
N2		40.0	37.8	39.4	35.3	38.1
N3		35.3	34.7	31.0	35.8	34.2
Mean (±0.73)		40.2	37.2	36.6	37.0	37.7
		L	H			
		(3) and (4)				
N1		41.6	40.1			
N2		41.1	35.1			
N3		36.4	32.0			

Mean D.M. %: 80.7

(1) ±2.05 (3) ±1.45 For use in vertical and interaction comparisons.
 (2) ±1.83 (4) ±1.29 For use in horizontal and diagonal comparisons.