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Yields of the Field Experiments 1964

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64/R/RW401/DA/2 and 64/W/WW201/DA/2 WINTER Wheat - Row Spacing

Rothamsted Research

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64/Da/2.1

WINTER WHEAT

(RW 401 and WW 201)

Row spacing, seed rates and N - Rothamsted (R) Great Knott II and Woburn (W) Horsepool 1964.

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

Area of each sub plot: 0.0045.

Treatments. All combinations of:-

Whole plot. Row spacing: Seed and NPK* broadcast (B), seed drilled at 4 inches between rows, NPK broadcast (C), seed drilled, 7 inch rows, NPK broadcast (W), seed drilled, 7 inch rows, NPK combine drilled (W*).

Seed rates: 2 (L), 3.5 (H) bushels.

Sub plots. 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 311 lb.

Cultivations, etc.:

Great Knott II (R). Chisel ploughed 3 times: Oct 24 - 26, 1963.

Seed sown, NPK compound applied: Oct 30. 'Nitro-Chalk' applied:

Apr 11, 1964. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals): Apr 30. Combine harvested: Aug 27.

Variety: Cappelle. Previous crops: Spring beans 1962, potatoes 1963.

Horsepool (W). Ploughed: Oct 31, 1963. Seed sown, NPK compound applied: Nov 13. 'Nitro-Chalk' applied: Mar 26, 1964. Sprayed with mecoprop/2,4-D (Methoxone Extra at 7 pints in 40 gals):

Apr 30. Combine harvested: Aug 28. Variety: Cappelle.

Previous crops: Kale 1962, potatoes 1963.

Standard errors per plot. Grain:

Great Knott II (R) Whole plot: 2.41 or 4.7% (21 d.f.)

Sub plot: 3.70 or 7.3% (48 d.f.)

Horsepool (W) Whole plot: 2.17 or 4.3% (21 d.f.)

Sub plot: 3.32 or 6.6% (46 d.f.)

NOTES: (1) Horsepool (W). Because of a breakdown during combine harvesting the yields from 2 sub plots 215a and 215b (treatments W*LN2 and W*LN3) were lost. Estimated values were used in the analysis.

(2) Emergence counts were made on Dec 11, 1963 on Great Knott II (R) and on Feb 5, 1964 on Horsepool (W).

64/Da/2.2

SUMMARY OF RESULTS

GRAIN

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	B	C	W	W*	Mean
	(±1.20)				(±0.60)
L	52.0	50.3	50.0	51.0	50.8
H	49.7	51.2	52.1	49.9	50.7
	(1) and (2)				(±0.65)
N1	48.4	48.1	47.7	48.6	48.2
N2	51.5	52.5	51.8	51.0	51.7
N3	52.6	51.7	53.7	51.7	52.4
Mean (±0.85)	50.9	50.7	51.1	50.4	50.8
	L	H			
	(3) and (4)				
N1	48.3	48.1			
N2	50.7	52.7			
N3	53.6	51.3			

Mean D.M. %: 87.3

(1) ±1.85 (3) ±1.31. For use in vertical and interaction comparisons.

(2) ±1.93 (4) ±1.37. For use in horizontal and diagonal comparisons.

64/Da/2.3

GRAIN					
WOBURN					
	B	C	W	W*	Mean
	(±1.09)				(±0.54)
L	49.7	53.0	49.7	50.8	50.8
H	46.9	52.0	50.0	50.3	49.8
	(1) and (2)				(±0.59)
N1	49.4	55.7	51.6	52.7	52.3
N2	49.1	51.7	49.6	49.5	50.0
N3	46.3	50.0	48.2	49.6	48.5
Mean (±0.77)	48.3	52.5	49.8	50.6	50.3
	L	H			
	(3) and (4)				
N1	53.0	51.7			
N2	50.1	49.9			
N3	49.3	47.8			

Mean D.M.%: 86.8

(1) ±1.17 (3) ±0.83. For use in vertical and interaction comparisons.

(2) ±1.23 (4) ±0.87. For use in horizontal and diagonal comparisons.