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Yields of the Field Experiments 1964

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64/R/RW301/DA/6 Wheat - Varieties and N

Rothamsted Research

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64/Da/6.1

WHEAT

(RW 301)

Varieties and nitrogen - Claycroft 1964.

Design: 4 randomised blocks of 21 plots each, blocks being divided into 2 sub-blocks each, one of 12 winter and one of 9 spring wheat plots.

Area of each plot: 0.0192. Area harvested: 0.0129.

Treatments. All combinations of:-

1. Varieties: Winter wheat: Cappelle (Ca), Prestige (Pr), Rothwell Perdix (Rp), Squarehead's Master 13/4 (Sq).
Spring wheat: Jufy I (Ju), Opal (Op), Prestige (Pr).
2. Nitrogen: 0.5 (N1), 0.75 (N2), 1.0 (N3) cwt N broadcast in spring.

Basal dressing (combine drilled): 280 lb compound fertiliser (6: 15: 15) to winter wheat, 210 lb compound fertiliser (0: 20: 20) to spring wheat.

Cultivations, etc.: Ploughed: Nov 22 - Dec 4, 1963. Winter wheat drilled at 3 bushels: Dec 10. Spring wheat drilled at 3 bushels: Mar 11, 1964. 'Nitro-Chalk' applied: Spring wheat - Apr 1, Winter wheat - Apr 25. Sprayed with mecoprop/2,4-D (Methoxone Extra at 6 pints in 40 gallons): May 9. Combine harvested: Aug 28. Previous crops: Winter and spring wheat 1962, spring beans 1963.

NOTE: One plot of spring wheat (Ju N2) was affected by bird damage at germination - an estimated value was used in the analysis.

Standard errors per plot. Grain:

Winter wheat: 2.87 or 6.3% (33 d.f.)
Spring wheat: 1.94 or 5.2% (23 d.f.)

64/Da/6.2

SUMMARY OF RESULTS

GRAIN

WINTER WHEAT

	Ca	Pr	Rp	Sq	Mean
	(±1.44)				(±0.72)
N1	48.7	41.6	56.6	38.5	46.4
N2	47.7	42.3	60.2	35.4	46.4
N3	48.0	39.5	58.8	33.6	45.0
Mean (±0.83)	48.2	41.1	58.5	35.8	45.9

Mean D.M. %: 86.1

SPRING WHEAT

	Ju	Op	Pr	Mean
	(±0.97)			(±0.56)
N1	39.3	45.5	30.8	38.5
N2	35.6	43.2	29.9	36.2
N3	35.4	43.2	31.0	36.6
Mean (±0.56)	36.8	44.0	30.6	37.1

Mean D.M. %: 85.9