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Yields of the Field Experiments 1957

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57/R/CA/2 Winter Wheat - Varieties and N

Rothamsted Research

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57/Ca/2

WINNER WHEAT

Varieties and levels of nitrogen - Great Knott I 1957.

Design: 3 randomized blocks of 8 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0101 acres. Area harvested: 0.0067 acres.

Treatments: All combinations of:-

Whole plots. Varieties: Banco (1); Cappelle (2); Heine 7 (3); Hybrid 46 (4); Leda (5); Minister (6); Squareheads' Master 13/4 (7); Yeoman (8).

Sub plots. Nitrogen: 0.4; 0.8 cwt N per acre applied as sulphate of ammonia.

Basal dressing: $1\frac{1}{4}$ cwt compound fertilizer (16% P_2O_5 , 16% K_2O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Nov 15, 1956. Seed combine drilled at $2\frac{3}{4}$ bushels per acre: Nov 27. Sulphate of ammonia applied: May 1, 1957. Sprayed with DNOC at 8 lb in 80 gallons per acre: May 20. Combine harvested: Aug 25. Previous crop: Spring beans.

Standard errors per plot, Grain (at 85% dry matter):

Whole plot: 2.28 cwt per acre or 6.3% (14 d.f.)

Sub plot: 1.93 cwt per acre or 5.4% (16 d.f.)

Summary of Results

Grain (at 85% dry matter): cwt per acre

N: cwt per acre	Variety								Mean
	1	2	3	4	5	6	7	8	
	(± 1.53)*								
0.4	30.5	40.3	34.3	38.2	42.3	36.7	29.4	22.7	34.3
0.8	33.7	42.4	40.5	42.4	44.1	38.5	33.8	26.6	37.7
Mean (± 1.32)	32.1	41.3	37.4	40.3	43.2	37.6	31.6	24.7	36.0
Difference (± 1.58)	3.2	2.1	6.2	4.2	1.8	1.8	4.4	3.9	3.4 (± 0.56)

*for use in comparisons other than vertical.

Mean dry matter % as harvested: 83.8