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Yields of the Field Experiments 1963

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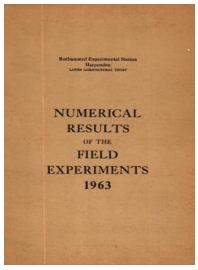

63/W/WW101/DA/2 Winter Wheat - Varieties and N

Rothamsted Research

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63/Da/2.1

WINTER WHEAT

(WW 101)

Levels and times of application of nitrogen - Woburn Butt Close 1963.

Design: 4 replicates of 20 treatments (4 x 5 factorial) arranged in 8 randomised blocks of 10 plots each, with one extra plot per block receiving no nitrogen other than basal.

Area of each plot: 0.0206 acres. Area harvested: 0.0137 acres.

Treatments: None and all combinations of:-
Nitrogen: 0.5, 1.0, 1.5, 2.0 cwt N per acre as 'Nitro-Chalk'.
Times of application (intended): February* (F), April (A), May (M), in two equal divided dressings (FM), in three (FAM).

*See cultivations.

Basal dressing: 300 lb compound fertiliser (6% N, 15% P_2O_5, 15% K_2O) per acre combine drilled.

Cultivations, etc.: Ploughed (after beans): Oct 10 1962, (after carrots): Oct 30. Seed drilled at 2.75 bushels per acre: Nov 1. 'Nitro-Chalk' applied: F - Mar 14, 1963, A - Apr 10, M - May 10. Sprayed with TBA/MCPA at 4 pints in 40 gallons per acre: May 9. Combine harvested: Sept 13. Variety: Cappelle. Previous crops: Plots 101 - 144, barley 1961, carrots 1962: plots 145 - 188, barley 1961, spring beans 1962.

Standard error per plot.
Grain (at 85% dry matter): 5.13 cwt per acre or 16.5% (53 d.f.)

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63/Da/2.2

Summary of Results

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

	N: cwt per acre (in addition to basal)				
	0.5	1.0	1.5	2.0	Mean
Time of application		(±2.56)			(±1.28)
F	34.0	37.9	31.3	29.6	33.2
A	31.4	34.0	27.6	30.7	30.9
M	23.5	30.0	24.7	31.2	27.4
FM	27.8	37.3	35.0	26.9	31.8
FAM	25.5	35.1	34.5	32.2	31.8
Mean (±1.15)	28.4	34.9	30.6	30.1	31.0

Mean of plots receiving no nitrogen other than basal: 11.0

Mean dry matter % as harvested (all plots): 79.8

Time of application of N

F = Mar 14
A = Apr 10
M = May 10