

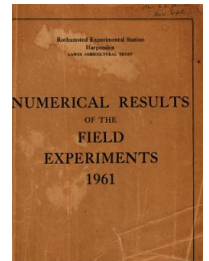
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61/R/DA/4 Wheat - Sowing Dates, Seed Rates and N (After Non-cereal Crop)

Rothamsted Research

Rothamsted Research (1962) *61/R/DA/4 Wheat - Sowing Dates, Seed Rates and N (After Non-cereal Crop)* ; Yields Of The Field Experiments 1961, pp 111 - 112 - DOI:

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61/Da/4.1

WINTER AND SPRING WHEAT

Sowing dates, seed rates and levels of nitrogen (after non-cereal crop) - Great Knott III 1961.

Design: 3 randomised blocks of 12 plots each, plots split into 2 for the application of nitrogen.

Area of each sub plot: 0.0148 acres. Area harvested: 0.0097 acres.

Treatments. All combinations of:-

Whole plots. Sowing dates: Sept 29, 1960; Jan 19, 1961;
Feb 15 (winter wheat); Feb 15* (spring wheat).

Seed rates: 2; 3; 4 bushels per acre.

Sub plots. Nitrogen (in addition to basal): 0.46; 0.92 cwt
N per acre applied as 'Nitro-Chalk' in two equal parts on
February 16 and April 19.

* Weather conditions delayed sowing and spring wheat was drilled on Feb 15 instead of a still later sowing of winter wheat.

Basal dressing: 2 cwt compound fertiliser (14% P_2O_5 , 28% K_2O) per acre broadcast in seedbed, 3 cwt compound fertiliser (5% N, 12½% P_2O_5 , 12½% K_2O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Sept 19, 1960. Compound fertiliser applied: First sowing - Sept 29; second sowing - Nov 16; third sowing - Feb 15, 1961. Sprayed with MCPA/TBA at 4 pints in 40 gallons per acre: May 5. Combine harvested: Aug 30. Varieties: Cappelle and Jufy I. Previous crops: 1958 - Spring wheat; 1959 - Winter and spring beans; 1960 - Early potatoes.

Note. Counts of plant shoot and ear number, and estimates of plant height and % area lodged were made.

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

Whole plot: 3.30 cwt per acre or 7.4% (22 d.f.)

Sub plot: 3.30 cwt per acre or 7.4% (24 d.f.)

61/Da/4.2

Summary of Results

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

Seed rate: bushels per acre	Variety and date of sowing				N: cwt per acre (including basal)		Diff.	Mean
	Cappelle (W.W.) Sept 29th	Jan 19th	Feb 15th	July I (S.W.) Feb 15th	0.6	1.1		
	(±1.91)				(±1.17)*		(±1.35)	(±0.95)
2	44.0	49.0	43.7	41.3	43.3	45.6	+2.3	44.5
3	39.9	47.7	45.7	43.7	43.5	45.0	+1.5	44.2
4	39.7	49.0	47.9	44.9	45.3	45.4	+0.1	45.4
	Variety and date of sowing				(±1.35)*		(±1.56)	(±1.10)
	Cappelle (W.W.) Sept 29th				42.9	39.5	-3.4	41.2
	Jan 19th				46.3	50.7	+4.4	48.5
	Feb 15th				45.7	45.8	+0.1	45.7
	July I (S.W.) Feb 15th				41.3	45.3	+4.0	43.3
	Mean				44.0	45.4	+1.4	44.7
							(±0.78)	

*For use in vertical and diagonal comparisons only.

Mean dry matter % as harvested: 86.6