

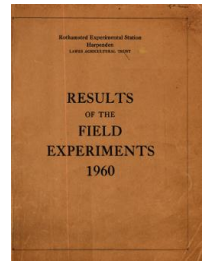
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60/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)

Rothamsted Research

Rothamsted Research (1961) *60/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)* ; Yields Of The Field Experiments 1960, pp 83 - 84 - DOI:

<https://doi.org/10.23637/ERADOC-1-180>

60/Ca/1.1

WINTER WHEAT

Sowing dates, seed rates and levels of nitrogen (after non-cereal crop) - Great Knott III 1960.

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

Area of each sub plot: 0.0193 acres. Area harvested: 0.0126 acres.

Treatments. All combinations of:-

Whole plots. Sowing dates: Oct 2; Oct 21; Nov 23; Dec 18, 1959.
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 Feb 17 and Apr 28.

Basal dressing: 3 cwt compound fertilizer (10% P_2O_5 , 20% K_2O) per acre broadcast in seed bed, 3 cwt compound fertilizer (5% N, 12½% P_2O_5 , 12½% K_2O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Sept 8, 1959. Compound fertilizer applied: First sowing - Sept 28; second sowing - Oct 20; third sowing - Nov 17; fourth sowing - Dec 17. Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: Apr 22, 1960. Combine harvested: Aug 30. Variety: Cappelle. Previous crops: 1957 - Spring wheat; 1958 - Spring beans; 1959 - Early potatoes.

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

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

Whole plot: 1.93 cwt per acre or 4.0% (22 d.f.)
Sub plot: 2.00 cwt per acre or 4.1% (24 d.f.)

60/Ca/1.2

Summary of Results

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

Seed rate: bushels per acre	Date of sowing				N: cwt per acre (including basal)		Diff.	Mean
	Oct 2nd	Oct 21st	Nov 23rd	Dec 18th	0.6	1.1		
	(±1.11)				(±0.69)*		(±0.82)	(±0.56)
2	50.8	48.6	47.8	44.8	47.4	48.5	+1.1	48.0
3	51.4	48.9	48.8	46.4	48.5	49.2	+0.7	48.9
4	52.0	43.5	47.4	50.5	48.8	47.9	-0.9	48.3
	Date of sowing				(±0.80)*		(±0.94)	(±0.64)
	Oct 2nd				50.3	52.5	+2.2	51.4
	Oct 21st				47.5	46.4	-1.1	47.0
	Nov 23rd				49.1	46.9	-2.2	48.0
	Dec 18th				46.0	48.4	+2.4	47.2
	Mean				48.2	48.5	+0.3 (±0.47)	48.4

*For use in vertical and diagonal comparisons only.

Mean dry matter % as harvested: 78.6