

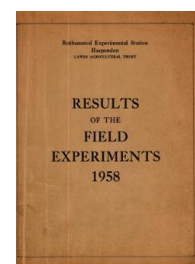
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58/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N

Rothamsted Research

Rothamsted Research (1959) *58/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N* ; Yields Of The Field Experiments 1958, pp 76 - 77 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Ca/1.1

WINTER WHEAT

Seed rates, sowing dates and levels of nitrogen - Great Field I 1958.

Design: 3 randomized blocks of 9 plots, each plot being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0148 acres. Area harvested: 0.0096 acres.

Treatments. All combinations of:-

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

Sowing dates: Sept 17; Oct 7; Nov 8, 1957.

Nitrogen: 0.6; 1.2 cwt N per acre applied as 'Nitro-Chalk' in two equal parts in early February and late April.

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: Aug 21, 1957. Compound fertilizer applied by hand: First sowing - Sept 17; second sowing - Oct 7; third sowing - Nov 8. First dressing of N applied: Feb 15, 1958. Sprayed with CMPP at 6 pints in 40 gallons per acre: Apr 17. Second dressing of N applied: Apr 24. Combine harvested: Sept 10. Variety: Cappelle. Previous crop: Potatoes.

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

Whole plot: 2.36 cwt per acre or 7.7% (16 d.f.)

Sub plot: 2.25 cwt per acre or 7.3% (18 d.f.)

Note. Estimates of % area lodged and counts of plant shoot and ear number were made. All plots were completely lodged at harvest.

58/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		Diff.	Mean
	Sept 17th	Oct 7th	Nov 8th	0.4	0.8		
	(±0.96)			(±0.95)*		(±1.06)	(±0.56)
2	33.2	31.1	34.3	35.0	30.7	-4.3	32.8
3	29.3	27.2	33.7	30.8	29.3	-1.5	30.1
4	31.2	29.2	26.9	29.8	28.4	-1.4	29.1
	Date of sowing			(±0.95)*		(±1.06)	(±0.56)
	Sept 17th	31.3	31.1	-0.2	31.2		
	Oct 7th	30.1	28.1	-2.0	29.1		
	Nov 8th	34.1	29.2	-4.9	31.6		
	Mean	31.8	29.5	-2.3	30.7		
				(±0.61)			

*For use in vertical and diagonal comparisons.

Mean dry matter % as harvested: 74.1