

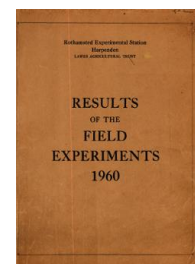
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Yields of the Field Experiments 1960

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60/R/CA/3 Winter Wheat - Row Spacing, Seed Rates and N

Rothamsted Research

Rothamsted Research (1961) *60/R/CA/3 Winter Wheat - Row Spacing, Seed Rates and N* ; Yields Of The Field Experiments 1960, pp 87 - 88 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

60/Ca/3.1

WINTER WHEAT

Row spacing, seed rates and nitrogen - Highfield Drive 1960.

Design: 2 replicates of a $3 \times 2 \times 3$ experiment arranged in 6 blocks of 6 plots each, certain interactions being confounded with block differences.

Area of each plot: 0.0148 acres. Area harvested: 0.0100 acres.

Treatments. All combinations of:-

Row spacing: 7"; 14"; 7" with every 4th row blank (7B).

Seed rate bushels per acre: 2; 4 when all coulters sowing.

Levels of nitrogen (excluding basal): 0.5; 1.0; 1.5 cwt N per acre as 'Nitro-Chalk' 21.

Basal dressing: $2\frac{1}{2}$ cwt compound fertiliser (6% N, 15% P_2O_5 , 15% K_2O) per acre combine drilled.

Cultivations, etc.: Ploughed: Sept 4, 1959. Ground chalk applied at 4.6 tons per acre: Sept 30. Seed combine drilled: Oct 10. 'Nitro-Chalk' applied: Feb 29, 1960. Sprayed with CMFP at 6 pints in 40 gallons per acre: Apr 21. Combine harvested: Aug 31. Variety: Cappelle. Previous crop: Beans.

Standard error per plot.

Grain (at 85% dry matter): 2.032 cwt per acre or 5.5% (13 d.f.)

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

60/Oa/3.2

Summary of Results

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

Seed rate: bushels per acre	Row spacing: inches		
	7	14	7B
	(± 0.83)		
2	40.3	36.5	37.8
4	35.1	37.0	36.1
Diff (± 1.17)	-5.2	+0.5	-1.7

N cwt per acre including basal	Row spacing: inches			Seed rate: bushels per acre		Mean	Diff.
	7	14	7B	2	4		
	(± 1.06)			(± 0.83)		(± 0.59)	(± 1.17)
.65	41.9	38.4	38.8	40.5	38.9	39.7	-1.6
1.15	37.6	36.0	35.2	37.5	35.0	36.3	-2.5
1.65	33.8	35.8	36.8	36.6	34.3	35.4	-2.3
Mean (± 0.59)	37.7	36.7	36.9	38.2	36.1	37.1	-2.1 (± 0.68)

Mean dry matter % as harvested: 80.9

B = Every 4th row blank.