

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1960

[Full Table of Content](#)



60/R/CA/2 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)

Rothamsted Research

Rothamsted Research (1961) *60/R/CA/2 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)* ; Yields Of The Field Experiments 1960, pp 85 - 86 - DOI:

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

60/Ca/2.1

WINTER WHEAT

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

Design: 3 randomized blocks of 8 plots each, plots 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:-

Whole plots. Sowing dates: Oct 2; Oct 21; Nov 23; Dec 18, 1959.
Seed rates: 2; 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 18 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.: Sprayed with 2-4D at 1¼ pints in 40 gallons per
acre: Aug 28, 1959. Ploughed: Sept 9. 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 - Barley; 1959 - Winter wheat.

Note. Counts of plant shoot and ear number, and estimates of plant
height and % area lodged were made. The incidence of Eyespot
(*Cercospora herpotrichoides*) and Take-all (*Ophiobolus graminis*)
was estimated.

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

Whole plot: 1.83 cwt per acre or 5.5% (14 d.f.)

Sub plot: 1.95 cwt per acre or 5.9% (16 d.f.)

60/Ca/2.2

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		
	(±1.06)				(±0.66)*		(±0.80)	(±0.53)
2	31.2	35.0	34.9	30.9	29.3	36.6	7.3	33.0
4	33.1	31.7	34.4	35.2	31.3	35.9	4.6	33.6
	Date of sowing				(±0.94)*		(±1.13)	(±0.75)
	Oct 2nd				28.5	35.7	7.2	32.1
	Oct 21st				30.6	36.1	5.5	33.3
		Nov 23rd			31.2	38.1	6.9	34.6
			Dec 18th		30.9	35.1	4.2	33.0
	Mean				30.3	36.3	6.0	33.3
							(±0.56)	

*For use in vertical and diagonal comparisons only.

Mean dry matter % as harvested: 80.0