

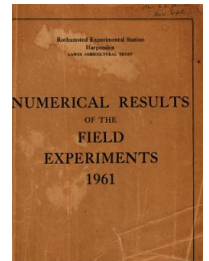
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1961

[Full Table of Content](#)



61/R/DA/5 Wheat - Sowing Dates, Seed Rates and N (After Non-cereal Crop)

Rothamsted Research

Rothamsted Research (1962) *61/R/DA/5 Wheat - Sowing Dates, Seed Rates and N (After Non-cereal Crop)* ; Yields Of The Field Experiments 1961, pp 113 - 114 - DOI:

<https://doi.org/10.23637/ERADOC-1-182>

61/Da/5.1

WINTER AND SPRING WHEAT

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

Design: 3 randomised blocks of 8 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; 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 20.

* Weather conditions delayed sowing and spring wheat was drilled on Feb 15th 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 15, 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 beans; 1960 - 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: 1.78 cwt per acre or 5.2% (14 d.f.)

Sub plot: 2.25 cwt per acre or 6.6% (16 d.f.)

61/Da/5.2

Summary of ResultsGrain (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
	Sept 29th	Jan 19th	Feb 15th	Jufy I (S.W.) Feb 15th	0.6	1.1		
	(±1.03)				(±0.69)*		(±0.92)	(±0.51)
2	29.2	35.4	37.9	37.2	31.9	38.0	6.1	34.9
4	27.8	34.3	37.6	36.1	29.6	38.3	8.7	33.9
	Variety and date of sowing				(±0.98)*		(±1.30)	(±0.73)
	Sept 29th				22.4	34.6	12.2	28.5
	Cappelle (W.W.) Jan 19th				29.9	39.7	9.8	34.8
	Feb 15th				35.2	40.2	5.0	37.7
	Jufy I (S.W.) Feb 15th				35.3	38.0	2.7	36.7
	Mean				30.7	38.2	7.5	34.4
							(±0.65)	

*For use in vertical and diagonal comparisons only.

Mean dry matter % as harvested: 85.2