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# Yields of the Field Experiments 1961

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## 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<sub>2</sub>O<sub>5</sub>, 28% K<sub>2</sub>O) per acre  
broadcast in seedbed, 3 cwt compound fertiliser (5% N, 12½% P<sub>2</sub>O<sub>5</sub>,  
12½% K<sub>2</sub>O) 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 Results

Grain (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	
	Cappelle (W.W.) 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)	
	Cappelle (W.W.)				Sept 29th	22.4	34.6	12.2	28.5
	Jufy I (S.W.)				Jan 19th	29.9	39.7	9.8	34.8
					Feb 15th	35.2	40.2	5.0	37.7
					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