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

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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% P₂O₅, 28% K₂O) per acre
broadcast in seedbed, 3 cwt compound fertiliser (5% N, 12½% P₂O₅,
12½% K₂O) 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.)				22.4	34.6	12.2	28.5
	Sept 29th				29.9	39.7	9.8	34.8
	Jan 19th				35.2	40.2	5.0	37.7
	Feb 15th				35.3	38.0	2.7	36.7
	Jufy I (S.W.)							
	Feb 15th							
	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