ROTHAMSTED RESEARCH

Yields of the Field Experiments 1960

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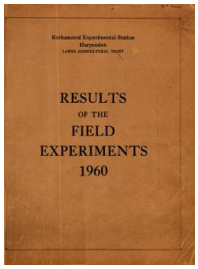

60/R/CA/2 Winter Wheat - Seed Rates, Sowing Dates and N (After Non-cereal Crop)

Rothamsted Research

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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 1¾ 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 (*Cercosporella 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.)

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Summary of Results

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

Seed rate: bushels per acre	Date of sowing: Oct 2nd	Oct 21st	Nov 23rd	Dec 18th	N: cwt per acre (including basal) 0.6	1.1	Diff.	Mean
	(±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 (±0.56)	33.3

*For use in vertical and diagonal comparisons only.

Mean dry matter % as harvested: 80.0

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