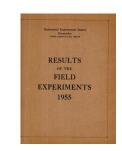
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Yields of the Field Experiments 1955



Full Table of Content

55/W/CA/4 Winter Wheat - Varieties, Seed Rates, Levels and Times of N

Rothamsted Research

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55/Ca/4.1

WINTER WHEAT

Varieties, seed rates, levels and times of application of N - Woburn, Roadpiece 1955, the 2nd year.

Design: 4 randomized blocks of 8 plots each, certain high order interactions being confounded with block differences. In addition each block contained 2 plots with no nitrogen, the variety x seed rate interaction being confounded.

Area of each plot: 0.0159 acre. Area harvested: 0.0140 acre.

Treatments: All combinations of: -Varieties: Holdfast; Cappelle.

Seed rates: Holdfast, 1½; 3 bushels per acre. Cappelle, 2; 4 bushels per acre.

Nitrogen: 0.5; 1.0 cwt N per acre as nitrochalk.

Time of application of N: half dressing in March and again in May; whole dressing mid March; mid April; mid May.

Basal dressing: 1 cwt per acre compound granular fertilizer (12% N, 12% P_2O_5 , 15% K_2O) combine drilled with seed.

- Cultivations, etc.: Ploughed: Sept 28, 1954. Combine drilled: Oct 25.

 March top dressing applied: Mar 15, 1955. April top dressing
 applied: Apr 20. All plots sprayed with D.N.O.C. at 1½ gallons in
 80 gallons: May 19. May top dressing applied: May 24. Combine
 harvested: Aug 22. Varieties: Holdfast and Cappelle.
 Previous crop: Wheat.
- Note (1) The experiment is a repetition on the same plots of the one carried out in 1954 (see "Results of the Field Experiments 1954", Section 54/Ca/7). There were minor changes in the treatments but the same randomization was used.
 - (2) Records of incidence of disease (Take-all and Eyespot) and weeds, and counts of plant, shoot and ear numbers were made.

Standard error per plot.

Grain: 3.95 cwt per acre or 26.9% (12 d.f.)

55/Ca/4.2

Summary of Results

Grain: cwt per acre

	T ₁	^T 2	T ₃	T ₄	Mean	
Mean (±1.40)	16.5	16.9	18.9	12.2	16.1	
	(±1.97)				(±0.99)	
v ₁	17.0 16.0	15.6 18.3	18.3 19.6	12.4	15.8	
Difference (±2.79)	-1.0	+2.7	+1.3	-0.4	+0.7	(±1.40)
R ₁ R ₂	14.1 18.9	16.3 17.6	16.8 21.1	9.6 14.8	14.2	
Difference (±2.79)	+4.8	+1.3	+4.3	+5.2	+3.9	(±1.40)
N ₁ N ₂	14.9 18.1	11.9	15.2 22.6	12.2	13.6	
Difference (±2.79)	+3.2	+10.1	+7.4	-0.1	+5.1	(±1.40)
	R ₁	R ₂	No	N ₁	N ₂	Mean
			(±1.40)	(±0.	.99)	
Mean (±0.99)			8.8	13.6	18.7	14.7
	(±1.40)		(±1.97)	(±1.40)		(±0.88)
V ₁ V ₂	13.7	18.0 18.2	8.8 8.8	13.6 13.5	18.0 19.4	14.4
R ₁ R ₂				11.9	16.5	13.1

Mean dry matter % as harvested: 85.5

Treatments

V₁ Holdfast R_1 , R_2 $1\frac{1}{2}$, 3 bushels per acre R_1 , R_2 R_1 , R_2 R_2 R_3 , R_4 bushels per acre R_1 , R_2 R_3 , R_4 R_5 R_5 R_6 R_7 R_8 R_9 $R_$

T1 Nitrochalk half in March half in May T3 Nitrochalk all in mid April Nitrochalk all in mid May Nitrochalk all in mid May

The V x R table does not include the plots receiving no nitrogen.