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Yields of the Field Experiments 1958

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58/R/CA/7 and 58/W/CA/7 Spring Wheat - Varieties and N

Rothamsted Research

Rothamsted Research (1959) *58/R/CA/7 and 58/W/CA/7 Spring Wheat - Varieties and N* ; Yields Of The Field Experiments 1958, pp 86 - 87 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Ca/7.1

SPRING WHEAT

Varieties and levels of nitrogen - Rothamsted (R) Great Knott III and Woburn (W) Stackyard 1958.

Design (each field): 3 randomized blocks of 7 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot (acres):	Area harvested (acres):
Great Knott III (R): 0.0154	0.0103
Stackyard (W): 0.0193	0.0129

Treatments: All combinations of:-

Whole plots. Varieties: Atle (1); Atson (2); Koga II (3); Miana (4); Peko (5); Progress (6); Svenno (7).

Sub plots: Nitrogen, applied as sulphate of ammonia.

Great Knott III (R): None; 0.4 cwt N per acre
Stackyard (W): 0.4; 0.8 cwt N per acre.

Basal dressing:

Great Knott III (R): 3.3 cwt compound fertilizer (12% N, 9% P₂O₅, 9% K₂O) per acre combine drilled with seed.

Stackyard (W): 1 cwt compound fertilizer (16% P₂O₅, 16% K₂O) per acre combine drilled with seed.

Cultivations, etc.:

Great Knott III (R). Ploughed: Oct 28, 1957. Seed combine drilled at 3¼ bushels per acre: Apr 4, 1958. Nitrogen applied: Apr 8. Sprayed with MCPA at 4 pints in 40 gallons per acre: Apr 20. Combine harvested: Sept 12. Previous crop: Spring wheat.

Stackyard (W). Ploughed: Feb 13, 1958. Nitrogen applied: Mar 24. Seed combine drilled at 3¼ bushels per acre: Apr 2. Sprayed with MCPA at 4 pints in 40 gallons per acre: May 27. Combine harvested: Oct 9. Previous crop: Potatoes.

Standard errors per plot, Grain (at 85% dry matter):

Great Knott III (R):

Whole plot: 1.53 cwt per acre or 6.2% (12 d.f.)

Sub plot: 1.98 cwt per acre or 8.0% (14 d.f.)

Stackyard (W):

Whole plot: 1.61 cwt per acre or 6.2% (12 d.f.)

Sub plot: 1.85 cwt per acre or 7.1% (14 d.f.)

58/Ca/7.2

Summary of Results

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

N: cwt per acre (including basal)	Variety							Mean
	1	2	3	4	5	6	7	
Great Knott III (R)								
(±1.20)*								
0.4	24.6	24.1	23.4	15.4	23.2	23.6	23.3	22.5
0.8	24.6	26.0	26.8	25.1	26.8	25.9	31.0	26.6
Mean (±0.88)	24.6	25.0	25.1	20.2	25.0	24.8	27.1	24.5
Difference (±1.62)	0.0	1.9	3.4	9.7	3.6	2.3	7.7	4.1 (±0.61)

Mean dry matter % as harvested: 80.6

N: cwt per acre	Stackyard (W)							Mean
	(±1.20)*							
0.4	23.4	22.9	26.2	21.3	26.2	25.1	23.7	24.1
0.8	28.1	26.3	28.9	24.9	29.3	30.5	25.9	27.7
Mean (±0.93)	25.8	24.6	27.5	23.1	27.7	27.8	24.8	25.8
Difference (±1.51)	4.7	3.4	2.7	3.6	3.1	5.4	2.2	3.6 (±0.57)

Mean dry matter % as harvested: 73.6

*for use in comparisons other than vertical.