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Yields of the Field Experiments 1955

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55/R/CA/7 Spring Wheat - Varieties and N

Rothamsted Research

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55/Ca/7

SPRING WHEAT

Varieties and levels of nitrogen - Great Field I 1955.

Design: 3 randomized blocks of 5 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0083 acre. Area harvested: 0.0057 acre.

Treatments: All combinations of:

Whole plots. Varieties: Atle; Atson; Koga II; Peko; Progress.
Sub plots. Nitrogen: 0.3; 0.6 cwt N per acre applied as nitrochalk.

Basal dressing: 1.15 cwt compound granular fertilizer (13% P₂O₅, 13% K₂O) per acre, combine drilled with seed.

Cultivations, etc.: Ploughed: Dec 29, 1954. Nitrogen applied, seed combine drilled at 2½ bushels per acre: Apr 14, 1955. Sprayed with DNOC at 6 lb per acre in 80 gallons: May 12. Combine harvested: Aug 31. Previous crop: Potatoes.

Standard errors per plot, Grain:

Whole plot: 1.75 cwt per acre or 4.7% (8 d.f.)
 Sub plot: 1.35 cwt per acre or 3.6% (10 d.f.)

Summary of Results

Grain: cwt per acre

	Atle	Atson	Variety Koga II	Peko	Progress	Mean
	(±1.15)*					
N: cwt per acre						
0.3	35.9	35.0	40.6	38.3	38.0	37.6
0.6	33.4	32.8	41.0	38.0	37.4	36.5
Mean (±1.01)	34.7	33.9	40.8	38.1	37.7	37.0
Diff. (±1.10)	-2.5	-2.2	+0.4	-0.3	-0.6	-1.1 (±0.49)

*for use in comparisons other than vertical.

Mean dry matter % as harvested: 83.5