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Yields of the Field Experiments 1957

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57/R/CC/1 Spring Oats - Varieties and N

Rothamsted Research

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SPRING OATS

Varieties and levels of nitrogen - Fosters 1957.

Design: 3 randomized blocks of 8 plots each, plots being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0212 acres. Area harvested: 0.0141 acres.

Treatments: All combinations of:-

Whole plots. Varieties: Blenda (1); Deva (2); Flamande (3); Opus (4); Palu (5); Pendek (6); Sun II (7); de Wattines (8).
Sub plots. Nitrogen: None; 0.36 cwt N per acre applied as 'Nitro-Chalk'.

Basal dressing: 3 cwt compound fertilizer (12% N, 9% P₂O₅, 9% K₂O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Nov 6, 1956 and again Jan 19, 1957. 'Nitro-Chalk' applied: Mar 22. Seed combine drilled at 3½ bushels per acre: Mar 23. Sprayed with DNOC at 8 lb in 80 gallons per acre: May 21. Combine harvested: Aug 8. Previous crop: Wheat.

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

Whole plot: 0.85 cwt per acre or 2.8% (14 d.f.)
 Sub plot: 0.80 cwt per acre or 2.6% (16 d.f.)

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	8	
	(±0.58)*								
0.36	30.5	29.9	29.0	30.1	30.2	30.9	30.9	28.3	30.0
0.72	32.6	32.1	31.0	32.3	32.0	30.6	31.0	29.6	31.4
Mean (±0.48)	31.6	31.0	30.0	31.2	31.1	30.7	30.9	29.0	30.6
Difference (±0.65)	+2.1	+2.2	+2.0	+2.2	+1.8	-0.3	+0.1	+1.3	+1.4 (±0.23)

*for use in comparisons other than vertical.

Mean dry matter % as harvested: 83.9