Yields of the Field Experiments 1957

[Full Table of Content](#)
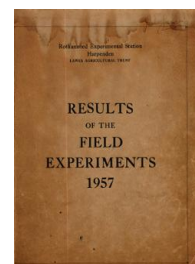
57/R/CC/1 Spring Oats - Varieties and N

Rothamsted Research

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% P_2O_5, 9% K_2O) 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 $3\frac{1}{2}$ 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)	1	2	3	4	5	6	7	8	Mean
				$(\pm 0.58)^*$					
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