

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1957

[Full Table of Content](#)



57/R/CA/6 Spring Wheat - Combine Drilling of N

Rothamsted Research

Rothamsted Research (1958) *57/R/CA/6 Spring Wheat - Combine Drilling of N* ; Yields Of The Field Experiments 1957, pp 74 - 74 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

SPRING WHEAT

Combine drilling of nitrogen - Little Hoos 1957.

Design: 4 randomized blocks of 7 plots each.

Area of each plot: 0.0244 acres. Area harvested: 0.0163 acres.

Treatments: None and all combinations of:-

Nitrogen: 0.22 (N₁); 0.54 (N₂); 0.68 (N₃) cwt N per acre.

Method of application: Broadcast as sulphate of ammonia; combine drilled as compound fertilizer:

N₁: 5% N, 12½% P₂O₅, 12½% K₂O.

N₂: 8% N, 8% P₂O₅, 8% K₂O.

N₃: 12% N, 9% P₂O₅, 9% K₂O.

Basal dressing per acre: 0.54 cwt P₂O₅ and 0.54 cwt K₂O combine drilled

(a) as compound 16% P₂O₅, 16% K₂O on the no nitrogen and broadcast nitrogen plots;

(b) as compounds N₁, N₂, N₃ on the plots receiving drilled nitrogen.

Cultivations etc.: Ploughed: Oct 12, 1956 and again Jan 23, 1957.

Seed combine drilled at 3¼ bushels per acre: Apr 2. Sulphate of

ammonia broadcast: Apr 3. Sprayed with MCPA at 2 pints in 40

gallons per acre: May 30. Combine harvested: Aug 31. Variety:

Koga II. Previous crop: Wheat and barley.

Standard error per plot.

Grain (at 85% dry matter): 1.83 cwt per acre or 8.9% (18 d.f.)

Summary of Results

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

None	Broadcast			Combine drilled			Mean
	0.22	0.54	0.68	0.22	0.54	0.68	
15.1	20.2	21.6	21.0 (±0.92)	20.9	22.6	23.3	20.7

Mean dry matter % as harvested: 83.0