

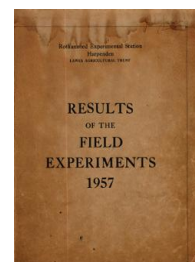
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## Yields of the Field Experiments 1957

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### 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 (N<sub>1</sub>); 0.54 (N<sub>2</sub>); 0.68 (N<sub>3</sub>) cwt N per acre.

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

N<sub>1</sub>: 5% N, 12½% P<sub>2</sub>O<sub>5</sub>, 12½% K<sub>2</sub>O.

N<sub>2</sub>: 8% N, 8% P<sub>2</sub>O<sub>5</sub>, 8% K<sub>2</sub>O.

N<sub>3</sub>: 12% N, 9% P<sub>2</sub>O<sub>5</sub>, 9% K<sub>2</sub>O.

Basal dressing per acre: 0.54 cwt P<sub>2</sub>O<sub>5</sub> and 0.54 cwt K<sub>2</sub>O combine drilled

(a) as compound 16% P<sub>2</sub>O<sub>5</sub>, 16% K<sub>2</sub>O on the no nitrogen and broadcast nitrogen plots;

(b) as compounds N<sub>1</sub>, N<sub>2</sub>, N<sub>3</sub> 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