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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_1); 0.54 (N_2); 0.68 (N_3) cwt N per acre.

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

N_1 : 5% N, 12 $\frac{1}{2}$ % P_2O_5 , 12 $\frac{1}{2}$ % K_2O .

N_2 : 8% N, 8% P_2O_5 , 8% K_2O .

N_3 : 12% N, 9% P_2O_5 , 9% K_2O .

Basal dressing per acre: 0.54 cwt P_2O_5 and 0.54 cwt K_2O combine drilled

(a) as compound 16% P_2O_5 , 16% K_2O on the no nitrogen and broadcast nitrogen plots;

(b) as compounds N_1 , N_2 , N_3 on the plots receiving drilled nitrogen.

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

Seed combine drilled at 3 $\frac{1}{4}$ 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