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Yields of the Field Experiments 1958

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58/R/CA/1 Winter Wheat - Seed Rates, Sowing Dates and N

Rothamsted Research

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58/Oa/1.1

WINTER WHEAT

Seed rates, sowing dates and levels of nitrogen - Great Field I 1958.

Design: 3 randomized blocks of 9 plots, each plot being split into 2 for the application of nitrogen.

Area of each sub plot: 0.0148 acres. Area harvested: 0.0096 acres.

Treatments. All combinations of:-

Seed rates: 2; 3; 4 bushels per acre.

Sowing dates: Sept 17; Oct 7; Nov 8, 1957.

Nitrogen: 0.6; 1.2 cwt N per acre applied as 'Nitro-Chalk' in two equal parts in early February and late April.

Basal dressing: 3 cwt compound fertilizer (10% P_2O_5 , 20% K_2O) per acre broadcast in seed bed, 3 cwt compound fertilizer (5% N, $12\frac{1}{2}\%$ P_2O_5 , $12\frac{1}{2}\%$ K_2O) per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Aug 21, 1957. Compound fertilizer applied by hand: First sowing - Sept 17; second sowing - Oct 7; third sowing - Nov 8. First dressing of N applied: Feb 15, 1958. Sprayed with CMPP at 6 pints in 40 gallons per acre: Apr 17. Second dressing of N applied: Apr 24. Combine harvested: Sept 10. Variety: Cappelle. Previous crop: Potatoes.

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

Whole plot: 2.36 cwt per acre or 7.7% (16 d.f.)

Sub plot: 2.25 cwt per acre or 7.3% (18 d.f.)

Note. Estimates of % area lodged and counts of plant shoot and ear number were made. All plots were completely lodged at harvest.

58/Ca/1.2

Summary of Results

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

| Seed rate: bushels per acre | Date of sowing | | | N: cwt per acre | | Diff. | Mean |
|-----------------------------------|----------------|------------|----------------|--------------------|------|---------|---------|
| | Sept 17th | Oct 7th | Nov 8th | 0.4 | 0.8 | | |
| | | (±0.96) | | (±0.95)* | | (±1.06) | (±0.56) |
| 2 | 33.2 | 31.1 | 34.3 | 35.0 | 30.7 | -4.3 | 32.8 |
| 3 | 29.3 | 27.2 | 33.7 | 30.8 | 29.3 | -1.5 | 30.1 |
| 4 | 31.2 | 29.2 | 26.9 | 29.8 | 28.4 | -1.4 | 29.1 |
| | | | Date of sowing | (±0.95)* | | (±1.06) | (±0.56) |
| | | | Sept 17th | 31.3 | 31.1 | -0.2 | 31.2 |
| | | | Oct 7th | 30.1 | 28.1 | -2.0 | 29.1 |
| | | | Nov 8th | 34.1 | 29.2 | -4.9 | 31.6 |
| | | | Mean | 31.8 | 29.5 | -2.3 | 30.7 |
| | | | | | | (±0.61) | |

*For use in vertical and diagonal comparisons.

Mean dry matter % as harvested: 74.1