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Yields of the Field Experiments 1952

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52/CA/5 Wheat - Late Application of Nitrogen - Rothamsted

Rothamsted Research

Rothamsted Research (1953) *52/CA/5 Wheat - Late Application of Nitrogen - Rothamsted* ; Yields Of The Field Experiments 1952, pp 75 - 76 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Ca/5.1

WHEAT

Late application of nitrogen and methods of harvesting - Fosters 1952.

System of replication: 4 randomized blocks of 3 plots each, blocks and plots being split into 2 strips for different methods of harvesting.

Area of each plot: 0.0242 acre. Area harvested: 'binder' plots - 0.0202 acre, 'combine' plots - 0.0091 acre.

Treatments:

Nitrochalk: None; $1\frac{1}{2}$; 3 cwt per acre applied as top dressing.
Methods of harvesting: Binder; N.I.A.E. combine harvester.

Basal manuring: 3 cwt sulphate of ammonia per acre.

Cultivations, etc.: Ploughed: Sept 11. Seed drilled at 3 bushels per acre: Oct 24. Sulphate of ammonia applied: Apr 18. Sprayed with D.N.O.C.: May 15. Nitrochalk applied: June 28. Harvested: 'binder' plots - Aug 12, 'combine' plots - Aug 13. Variety: Yeoman. Previous crop: Wheat.

Standard errors per plot. Grain:

Strip: 1.72 cwt per acre or 8.9% (3 d.f.)
Whole plot: 1.32 cwt per acre or 6.9% (6 d.f.)
Sub plot: 1.68 cwt per acre or 8.7% (6 d.f.)

52/Oa/5.2

Summary of Results

| | Nitrochalk: cwt per acre as top dressing | | | Mean |
|------------------------------------|---------------------------------------------|------|------|---------------------|
| | None | 1.5 | 3.0 | |
| Grain: cwt per acre (a) and (b) | | | | |
| Binder | 19.0 | 20.9 | 20.8 | 20.2 |
| Combine | 18.7 | 18.4 | 17.5 | 18.2 |
| Mean (± 0.66) | 18.8 | 19.7 | 19.2 | 19.2 |
| Difference (± 1.55) | -0.3 | -2.5 | -3.3 | -2.0 (± 1.21) |

(a) ± 0.89 for use in horizontal comparisons only

(b) ± 1.13 for use in diagonal comparisons only

Binder Plots

| Straw: cwt per acre | | | | |
|-------------------------------------|------|------|------|------|
| | 33.7 | 34.1 | 35.9 | 34.6 |
| Crude Protein: cwt per acre | | | | |
| Grain | 2.11 | 2.44 | 2.43 | |
| Increase | | 0.33 | 0.32 | |
| Straw | 0.68 | 0.68 | 0.74 | |
| Increase | | 0.00 | 0.06 | |
| Percentage uptake of added nitrogen | | | | |
| Grain | | 23 | 11 | |
| Straw | | 1 | 2 | |