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Yields of the Field Experiments 1952



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Rothamsted Research

Rothamsted Research (1953) 52/CB/1 Barley - Late Application of Nitrogen - Rothamsted; Yields Of The Field Experiments 1952, pp 77 - 78 - DOI: https://doi.org/10.23637/ERADOC-1-178

52/Cb/1.1

BARLEY

- Late application of nitrogen and methods of harvesting Great Field II 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 0.0242 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 per acre: $2\frac{1}{4}$ cwt sulphate of ammonia; 1 cwt superphosphate combine drilled with seed.
- Cultivations, etc.: Sulphate of ammonia applied to linseed: Mar 19.

 Harrowed in linseed which had failed: May 12. Seed and superphosphate drilled: May 13. Sprayed with M.C.P.A., medium volume, 5 pints in 30 gallons water per acre: June 9. Nitrochalk applied: June 16. Harvested: 'binder' plots Sept 16, 'combine' plots Sept 19. Variety: Plumage Archer. Previous crop: Permanent grass.

Standard errors per plot. Grain:
Strip: 1.09 cwt per acre or 7.6% (3 d.f.)
Whole plot: 1.05 cwt per acre or 7.4% (6 d.f.)
Sub plot: 1.18 cwt per acre or 8.3% (6 d.f.)

52/Cb/1.2

Summary of Results

| | Nitrocha as t None | lk: cwt pop dress: | | Mean | | |
|---------------------------------|--------------------------|--------------------|------|-------------|--|--|
| Grain: cwt per acre (a) and (b) | | | | | | |
| Binder | 13.1 | 13.5 | | 13.2 | | |
| Combine | | 15.6 | 15.5 | 15.3 | | |
| Comptile | 14. / | 19.0 | 19.9 | 19.7 | | |
| Mean (±0.53) | 13.9 | 14.5 | 14.3 | 14. 2 | | |
| Difference (±1.03) | 1.6 | . 2. 1 | 2.4 | 2.1 (±0.77) | | |

- (a) ±0.67 for use in horizontal comparisons only (b) ±0.79 for use in diagonal comparisons only

| Straw: Cwt per acre | | | | | | |
|---|-----------------|------------------------------|------------------------------|------|--|--|
| Binder | 19.6 | 18.3 | 19.2 | 19.0 | | |
| | Crude Protein | : cwt pe | er acre | | | |
| Grain: Binder Increase Combine Increase | 1.76 2.07 | 1.84 0.08 2.16 0.09 | 1.78 0.02 2.14 0.07 | | | |
| Straw: Binder Increase | 1.17 | 1.11 | 1.12 -0.05 | | | |
| F | ercentage uptak | e of add | ded nitro | gen | | |

| Grain: Binder Combine | 6 | 1 2 | |
|-----------------------|----|-----|--|
| Straw: Binder | -4 | -2 | |