ROTHAMSTED RESEARCH

# Numerical Results of the Field Experiments 1968

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## 68/C/21 Effect of Potato Haulm on Winter Wheat

### Rothamsted Research

Rothamsted Research (1970) *68/C/21 Effect of Potato Haulm on Winter Wheat ;* Numerical Results Of The Field Experiments 1968, pp 199 - 202 **- DOI: https://doi.org/10.23637/ERADOC-1-58**

68/C/21.2

## SUMMARY OF RESULTS

### GRAIN

PASTURES (R)

| | R0 | R2 | R4 | R6 | N0 | N1 | N2 | N3 | Mean |
|---|---|---|---|---|---|---|---|---|---|
| | (±0.69) | | | | (1) and (2) | | | | (±0.34) |
| B | 41.2 | 43.3 | 43.6 | 42.5 | 38.0 | 43.5 | 45.8 | 43.4 | 42.7 |
| C | 42.1 | 40.3 | 43.7 | 44.2 | 36.5 | 45.1 | 45.1 | 43.7 | 42.6 |
| | | | | | (3) and (4) | | | | (±0.49) |
| | | | R0 | | 32.8 | 43.9 | 46.3 | 43.6 | 41.6 |
| | | | R2 | | 34.0 | 42.6 | 46.2 | 44.4 | 41.8 |
| | | | R4 | | 39.2 | 46.4 | 45.1 | 43.8 | 43.6 |
| | | | R6 | | 42.8 | 44.2 | 44.2 | 42.3 | 43.4 |
| | | | Mean (±0.54) | | 37.2 | 44.3 | 45.5 | 43.5 | 42.6 |

(1) (±0.75) (3) (±1.06) For use in vertical and diagonal comparisons
(2) (±0.76) (4) (±1.08) For use in horizontal and interaction comparisons

Mean D.M. %: 82.6

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68/C/21.1

# EFFECT OF POTATO HAULM ON WINTER WHEAT

## (CK and WCN)

Rothamsted (R) Pastures and Woburn (W) Broadmead II 1968 the second year (winter wheat).

Design: 4 randomised blocks of 8 plots, split for N with split plot confounding.

Area of each sub plot:
Pastures (R): 0.0076. Area harvested: 0.0050.
Broadmead II (W): 0.0074. Area harvested: 0.0049.

Treatments: All combinations of:-
Whole plots: 1. Nitrogen to potatoes 1967: None (R0), 0.66 (R2) 1.32 (R4), 2.0 (R6) as 'Nitro-Chalk'.
2. Haulm disposal: Haulm burnt off with acid (B), haulm cut and removed (C).
Half plots: 3. Nitrogen to wheat 1968: None (N0), 0.33 (N1), 0.66 (N2), 1.0 cwt (N3) as 'Nitro-Chalk'.

Basal applications: Pastures (R): 340 lb (0:14:28) combine drilled, 5 tons ground chalk. Weedkiller: Ioxynil/mecoprop (Actril C at 6 pints in 20 gals).
Broadmead II (W): 300 lb (0:14:28) combine drilled. Weedkiller: Ioxynil/mecoprop (Actril C at 6 pints in 25 gals).

Cultivations, etc.:
Pastures (R): Ploughed, haulm ploughed in on B plots: 22 Sept, 1967.
Chalk applied: 10 Oct. Seed drilled at 170 lb: 24 Oct.
'Nitro-Chalk' applied: half - 25 Mar, 1968, half - 26 Apr.
Weedkiller applied: 26 Apr. Combine harvested: 24 Aug.
Variety: Cappelle.
Broadmead II (W): Haulm ploughed in on B plots: 19 Sept, 1967.
Disced three times: 7 Oct. Seed drilled at 180 lb: 13 Oct.
'Nitro-Chalk' applied: half - 26 Mar, 1968, half - 1 May.
Weedkiller applied: 25 Apr. Combine harvested: 22 Aug.
Variety: Cappelle.

NOTE: For the previous year's results see 'Results' 67/C/28.

Standard errors per plot.

| | | | |
|---|---|---|---|
| Grain: | Pastures (R): | Whole plot: | 1.38 or 3.2% (14 d.f.) |
| | | Sub plot: | 2.16 or 5.1% (16 d.f.) |
| | Broadmead (W): | Whole plot: | 3.15 or 9.7% (14 d.f.) |
| | | Sub plot: | 1.84 or 5.6% (16 d.f.) |

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68/C/20.2

## SUMMARY OF RESULTS

### GRAIN

| | SO | SI | DO | DD | Mean |
|---|---|---|---|---|---|
| | (±1.75) | | (1) and (2) | | (±1.24) |
| S | 29.0 | 30.6 | 27.1 | 32.5 | 29.8 |
| M | 29.5 | 27.1 | 28.6 | 28.0 | 28.3 |
| | | | (1) and (2) | | (±1.24) |
| SO | | | 27.7 | 30.8 | 29.2 |
| SI | | | 27.9 | 29.8 | 28.9 |
| Mean (±1.74) | | | 27.8 | 30.3 | 29.0 |

(1) (±2.13) For use in vertical and diagonal comparisons only
(2) (±2.46) For use in horizontal and interaction comparisons only

| | S | | M | |
|---|---|---|---|---|
| | DO | DD | DO | DD |
| | (3) and (4) | | | |
| SO | 25.3 | 32.6 | 30.1 | 28.9 |
| SI | 28.8 | 32.4 | 27.1 | 27.2 |

(3) (±3.01) For use in comparisons involving different whole plot combinations
(4) (±3.47) For use in interaction comparison and comparisons within the same whole plot combination.

Mean D.M. %: 85.6

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