

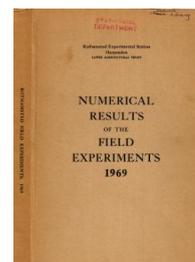
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ROTHAMSTED  
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## Numerical Results of the Field Experiments 1969

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### 69/R&W/W/1 - Varieties & N -

#### Rothamsted Research

Rothamsted Research (1970) *69/R&W/W/1 - Varieties & N -*; Numerical Results Of The Field Experiments 1969, pp 235 - 237 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

WINTER WHEAT

(69/R/W/1 and 69/W/W/1)

Varieties x N, Rothamsted (R) Long Hoos I and II (pathogen free) and Furzefield (pathogen infected), and Woburn (W) Lansome III (pathogen free), 1969.

Design: Long Hoos I and II (R) and Lansome III (W): 4 randomised blocks of 7 plots, split into 3.  
Furzefield (R): 3 randomised blocks of 7 plots, split into 3.

Area of sub plot: 0.0096. Area harvested: 0.0064.

Treatments: All combinations of:-

- Whole plots: 1. Varieties: Cappelle (CA), Champlain (CH), Joss Cambier (JC), Maris Beacon (MB), Maris Ranger (MR), Maris Widgeon (MW), West Desprez (WD).  
Sub plots: 2. Nitrogen: 0.6 (N2), 0.9 (N3), 1.2 (N4) cwt N as 'Nitro-Chalk' in spring.

Basal applications: 340 lb (6:15:15) combine drilled.

Lansome III (W): Magnesian limestone at 2 tons.

Weedkillers: Long Hoos I and II (R): Mecoprop at 42 oz and 2,4-D at 10.5 oz in 20 gals.

Furzefield (R): 2,4-D at 8 oz and dichlorprop at 32 oz in 20 gals.

Lansome III (W): Ioxynil at 9 oz and mecoprop at 27 oz in 25 gals.

Cultivations, etc.:-

Long Hoos I and II (R): Deep-tine cultivated twice: 22 Oct, 1968.

Seed drilled at 180 lb: 23 Oct. 'Nitro-Chalk' applied: 21 Apr, 1969. Weedkiller applied: 1 May. Combine harvested: 29 Aug.

Previous crops: Fallow 1967, potatoes 1968.

Furzefield (R): Ploughed: 8 Oct, 1968. Rotary cultivated:

21 Oct. Seed drilled at 180 lb: 23 Oct. 'Nitro-Chalk' applied: 21 Apr, 1969. Weedkiller applied: 5 May. Combine harvested:

29 Aug. Previous crops: Potatoes 1967, winter wheat 1968.

Lansome III (W): Limestone applied: 25 Oct, 1968. Deep-tine cultivated on 2 occasions: 24 and 26 Oct. Seed drilled at 165 lb: 6 Nov. 'Nitro-Chalk' applied: 17 Apr, 1969. Weedkiller applied: 3 May. Combine harvested: 22 Aug. Previous crops: Fallow 1967, potatoes 1968.

Standard errors per plot. Grain, cwt:

|                         |             |              |           |
|-------------------------|-------------|--------------|-----------|
| Long Hoos I and II (R): | Whole plot: | 3.19 or 5.1% | (18 d.f.) |
|                         | Sub plot:   | 4.29 or 6.8% | (42 d.f.) |
| Furzefield (R):         | Whole plot: | 4.13 or 9.1% | (12 d.f.) |
|                         | Sub plot:   | 3.91 or 8.6% | (28 d.f.) |
| Lansome III (W):        | Whole plot: | 2.93 or 7.3% | (18 d.f.) |
|                         | Sub plot:   | 1.76 or 4.4% | (42 d.f.) |

SUMMARY OF RESULTS

GRAIN: CWT

|                        | CA          | CH   | JC   | MB   | MR   | MW   | WD   | Mean    |
|------------------------|-------------|------|------|------|------|------|------|---------|
| LONG HOOS I AND II (R) |             |      |      |      |      |      |      |         |
|                        | (1) and (2) |      |      |      |      |      |      | (±0.81) |
| N2                     | 62.7        | 64.1 | 61.1 | 71.2 | 64.6 | 53.0 | 62.6 | 62.8    |
| N3                     | 62.9        | 65.6 | 60.7 | 71.1 | 65.9 | 54.4 | 64.1 | 63.5    |
| N4                     | 61.6        | 62.9 | 59.7 | 72.1 | 67.5 | 49.5 | 61.1 | 62.1    |
| Mean (±1.60)           | 62.4        | 64.2 | 60.5 | 71.5 | 66.0 | 52.3 | 62.6 | 62.8    |

(1) (±2.15) For use in vertical and interaction comparisons only

(2) (±2.37) For use in horizontal and diagonal comparisons only

Mean D.M. %: 82.1

FURZIEFIELD (R)

|              |             |      |      |      |      |      |      |         |
|--------------|-------------|------|------|------|------|------|------|---------|
|              | (1) and (2) |      |      |      |      |      |      | (±0.85) |
| N2           | 44.5        | 41.5 | 41.7 | 44.6 | 44.3 | 45.2 | 43.6 | 43.6    |
| N3           | 45.0        | 43.8 | 47.8 | 51.3 | 43.5 | 45.9 | 46.3 | 46.3    |
| N4           | 42.9        | 50.4 | 40.2 | 55.0 | 44.8 | 46.7 | 46.6 | 46.7    |
| Mean (±2.38) | 44.2        | 45.3 | 43.3 | 50.3 | 44.2 | 45.9 | 45.5 | 45.5    |

(1) (±2.26) For use in vertical and interaction comparisons only

(2) (±3.01) For use in horizontal and diagonal comparisons only

Mean D.M. %: 82.0

LANSOME III (W)

|              |             |      |      |      |      |      |      |         |
|--------------|-------------|------|------|------|------|------|------|---------|
|              | (1) and (2) |      |      |      |      |      |      | (±0.33) |
| N2           | 36.5        | 40.8 | 37.0 | 42.6 | 36.7 | 37.9 | 37.8 | 38.5    |
| N3           | 39.5        | 47.5 | 37.6 | 42.9 | 39.4 | 39.9 | 43.4 | 41.5    |
| N4           | 38.3        | 44.8 | 38.5 | 45.6 | 37.6 | 37.9 | 39.3 | 40.3    |
| Mean (±1.46) | 38.1        | 44.4 | 37.7 | 43.7 | 37.9 | 38.6 | 40.1 | 40.1    |

(1) (±0.88) For use in vertical and interaction comparisons only

(2) (±1.63) For use in horizontal and diagonal comparisons only

Mean D.M. %: 80.1