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# Numerical Results of the Field Experiments 1969

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

### Rothamsted Research

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# WINTER WHEAT

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

Varieties x N, Rothamsted (R) Long Hoos I and II (pathogen free) and Furzeffield (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.  
Furzeffield (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.

Furzeffield (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.

Furzeffield (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) |      |      |      |      | ( $\pm 0.81$ ) |
| 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 ( $\pm 1.60$ )    | 62.4 | 64.2 | 60.5        | 71.5 | 66.0 | 52.3 | 62.6 | 62.8           |

(1) ( $\pm 2.15$ ) For use in vertical and interaction comparisons only(2) ( $\pm 2.37$ ) For use in horizontal and diagonal comparisons only

Mean D.M. %: 82.1

## FURZEFIELD (R)

|                     |      |      |             |      |      |      |      |                |
|---------------------|------|------|-------------|------|------|------|------|----------------|
|                     |      |      | (1) and (2) |      |      |      |      | ( $\pm 0.85$ ) |
| 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 ( $\pm 2.38$ ) | 44.2 | 45.3 | 43.3        | 50.3 | 44.2 | 45.9 | 45.5 | 45.5           |

(1) ( $\pm 2.26$ ) For use in vertical and interaction comparisons only(2) ( $\pm 3.01$ ) For use in horizontal and diagonal comparisons only

Mean D.M. %: 82.0

## LANSOME III (W)

|                     |      |      |             |      |      |      |      |                |
|---------------------|------|------|-------------|------|------|------|------|----------------|
|                     |      |      | (1) and (2) |      |      |      |      | ( $\pm 0.33$ ) |
| 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 ( $\pm 1.46$ ) | 38.1 | 44.4 | 37.7        | 43.7 | 37.9 | 38.6 | 40.1 | 40.1           |

(1) ( $\pm 0.88$ ) For use in vertical and interaction comparisons only(2) ( $\pm 1.63$ ) For use in horizontal and diagonal comparisons only

Mean D.M. %: 80.1