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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)							(±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

FURZEFIELD (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