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Numerical Results of the Field Experiments 1969

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69/R&W/B/1 - Varieties, N & Ethirimol - Barley

Rothamsted Research

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BARLEY

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

Varieties, N and ethirimol, ('Milstem' or 'PP149') Rothamsted (R)
Pastures and Woburn (W) Lansome II 1969.

Design (each experiment): 4 blocks of 8 plots (randomisation
restricted), split into three for N.

Area of each sub plot: 0.0080. Area harvested: 0.0054.

Treatments: All combinations of:-

- Whole plots: 1. Varieties: Julia (J), Maris Badger (MB),
Sultan (S), Zephyr (Z).
2. Fungicide: None (O), ethirimol as seed
dressing at 1 lb (F).
Sub plots: 3. Nitrogen: 0.3 (N1), 0.6 (N2), 0.9 (N3)
cwt as 'Nitro-Chalk'.

Basal applications: 220 lb (0:20:20) combine drilled.

Weedkillers: Pastures (R):- Paraquat at 0.5 lb ion in 25
gals. 2,4-D at 8 oz and dichlorprop at 32 oz in 20 gals.
Lansome II (W):- Ioxynil octanoate, bromoxynil octanoate
and the iso-octyl ester of dichlorprop ('Oxytril P' at 1 pint
in 25 gals).

Cultivations, etc.:

Pastures (R): Paraquat applied: 11 Oct, 1968. Ploughed:
13 Nov. Seed drilled at 140 lb: 27 Mar, 1969. 'Nitro-Chalk'
applied: 10 Apr. 2,4-D/dichlorprop applied: 13 May. Combine
harvested: 14 Aug. Previous crops: Potatoes 1967, barley, 1968.
Lansome II (W): Ploughed: 18 Nov, 1968. Seed drilled at
140 lb: 28 Mar, 1969. 'Nitro-Chalk' applied: 8 Apr. Weedkiller
applied: 14 May. Combine harvested: 14 Aug. Previous crops:
Spring beans 1967 Winter wheat 1968.

NOTE: Samples were taken for assessment of mildew (*Erysiphe
graminis*) and other foliar diseases.

Standard errors per plot.

Grain, cwt: Pastures (R): Whole plot: 1.74 or 3.6% (21 d.f.)
Sub plot: 2.04 or 4.2% (48 d.f.)
Lansome II (W): Whole plot: 1.14 or 2.8% (21 d.f.)
Sub plot: 1.87 or 4.5% (48 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

PASTURES (R)

	J	MB	S	Z	Mean
	(±0.87)				(±0.43)
O	49.6	41.4	49.5	48.6	47.3
F	51.5	43.6	48.4	51.2	48.7
	(1) and (2)				(±0.36)
N1	45.9	38.4	43.2	47.5	43.7
N2	52.5	45.5	52.3	51.7	50.5
N3	53.3	43.6	51.4	50.7	49.7
Mean (±0.61)	50.6	42.5	48.9	49.9	48.0

Mean D.M.%: 83.6

- (1) (±0.85) For use in horizontal and diagonal comparisons only
 (2) (±0.72) For use in vertical and interaction comparisons only

SUMMARY OF RESULTS

GRAIN: CWT

LANSOME II (W)

	J	MB	S	Z	Mean
		(±0.57)			(±0.28)
O	42.7	34.4	43.2	43.2	40.9
F	43.6	35.6	43.7	44.3	41.8
		(1) and (2)			(±0.33)
N1	33.3	27.1	35.9	35.5	33.0
N2	45.2	37.6	45.7	46.6	43.8
N3	50.9	40.2	48.7	49.0	47.2
Mean (±0.40)	43.1	35.0	43.4	43.7	41.3

Mean D.M. %: 84.2

- (1) (±0.67) For use in horizontal and diagonal comparisons only
 (2) (±0.66) For use in vertical and interaction comparisons only