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Numerical Results of the Field Experiments 1970

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70/S/B/1 Barley Varieties, N Levels and Times of Application

Rothamsted Research

Rothamsted Research (1971) *70/S/B/1 Barley Varieties, N Levels and Times of Application ; Numerical Results Of The Field Experiments 1970*, pp 261 - 263 - **DOI:**
<https://doi.org/10.23637/ERADOC-1-59>

BARLEY

(70/S/B/1)

Varieties, N levels and times of application, Saxmundham, Grove Plot 1970.

Design: Two randomised blocks of 10 plots, split into 2 for fungicidal seed dressing.

Area of each sub plot: 0.0041. Area harvested: 0.0013.

Treatments: Untreated (2 plots per block, one for each variety split as above) and all combinations of:-

Whole plots: 1. Variety: Midas (M), Sultan (S).

2. Levels of N: 0.6 (N1), 1.2 (N2) cwt as 'Nitro-Chalk'.

3. Times of application of N: In the seedbed (E), as a top-dressing in May (L).

Sub plots: 4. Ethirimol as a seed dressing at 24 oz: None (O) seed dressed (P).

Basal applications: 560 lb (0:20:20) broadcast. Weedkiller: Mecoprop at 36 oz and 2,4-D at 9 oz in 45 gals.

Cultivations, etc.: Ploughed: 30 Oct, 1969. Seed drilled at 168 lb, seedbed N and basal PK applied: 23 Apr, 1970.

Weedkiller and late N applied: 28 May. Harvested by sickle: 12 Aug. Previous crops: Sugar beet 1968, barley 1969.

Standard errors per plot.

Grain, cwt: Whole plot: 2.05 or 7.7% (7 d.f.)

Sub plot: 1.20 or 4.5% (8 d.f.)

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SUMMARY OF RESULTS

GRAIN: CWT

	E	L	M	S	O	P	Mean
	(±1.02)		(±1.02)		(1) and (2)		(±0.72)
N1	27.4	23.7	26.3	24.7	24.3	26.8	25.5
N2	29.6	25.7	27.6	27.7	26.2	29.0	27.6
			(±1.02)		(1) and (2)		(±0.72)
		E	28.3	28.7	27.3	29.7	28.5
		L	25.7	23.7	23.2	26.1	24.7
					(1) and (2)		(±0.72)
				M	27.2	26.7	27.0
				S	23.3	29.1	26.2
Mean (±0.30)					25.3	27.9	26.6

NO Plots

M O 16.4
M P 17.6
S O 12.8
S P 13.9

(1) (± 0.78) For use in vertical and diagonal comparisons only

(2) (± 0.43) For use in horizontal and interaction comparisons only

Mean D.M. %: 86.3

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STRAW: CWT

	E	L	M	S	O	P	Mean
N1	29.7	24.5	28.2	26.0	28.2	26.0	27.1
N2	33.8	24.7	31.0	27.6	27.4	31.2	29.3
		E	31.7	31.9	31.1	32.4	31.8
		L	27.5	21.7	24.4	24.8	24.6
				M	29.7	29.4	29.6
				S	25.9	27.7	26.8
Mean					27.8	28.6	28.2

NO Plots

M O 17.4
M P 16.0
S O 13.3
S P 14.8

Mean D.M. %: 83.8