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Numerical Results of the Field Experiments 1969

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69/S/B/1 - Varieties, N & Ethirimol - Barley

Rothamsted Research

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BARLEY

(69/S/B/1)

Varieties, N and ethirimol ('Milstem' or 'PP 149'), Saxmundham, Grove Plot 1969.

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

Area of each sub-plot: 0.0041. Area harvested: 0.0012.

Treatments: None (2 plots per block, one for each variety split as above) and all combinations of:-

- Whole plots: 1. Variety: Deba Abed (DA), Maris Badger (MB).
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: None (O), seed dressed (P).

Basal applications: 5 cwt (0:20:20) broadcast. Weedkiller: Ioxynil at 6 oz and mecoprop at 18 oz in 40 gals.

Cultivations, etc.: Ploughed: 28 Oct, 1968. Basal PK and 'Nitro-Chalk' applied, seed drilled: 9 Apr, 1969. 'Nitro-Chalk' top-dressing applied, weedkiller applied: 14 May. Harvested: 18 Aug. Previous crops: Sugar beet 1967 and 1968.

Standard errors per plot.

Grain, cwt:	Whole plot:	2.53 or 7.5% (7 d.f.)
	Sub-plot:	1.76 or 5.2% (8 d.f.)

SUMMARY OF RESULTS

GRAIN:CWT

	E	L	DA	MB	O	P	Mean
	(± 1.26)		(± 1.26)		(1) and (2)		(± 0.89)
N1	29.6	37.0	34.2	32.4	31.6	34.9	33.3
N2	35.0	33.8	39.8	28.9	35.0	33.8	34.4
			(± 1.26)		(1) and (2)		(± 0.89)
		E	33.7	30.9	31.9	32.7	32.3
		L	40.3	30.4	34.7	36.0	35.4
					(1) and (2)		(± 0.89)
			DA		35.7	38.4	37.0
			MB		30.9	30.3	30.6
Mean (± 0.44)					33.3	34.4	33.8

NO Plots

DA O 19.9
 DA P 18.7
 MB O 15.5
 MB P 17.8

Mean D.M.%: 80.3

STRAW:CWT

	E	L	DA	MB	O	P	Mean
N1	32.9	42.7	33.8	41.9	36.0	39.6	37.8
N2	44.9	50.7	44.0	51.6	46.4	49.2	47.8
		E	34.7	43.1	37.0	40.8	38.9
		L	43.1	50.3	45.3	48.1	46.7
			DA		37.7	40.1	38.9
			MB		44.7	48.7	46.7
Mean					41.2	44.4	42.8

NO Plots

DA O 17.8
 DA P 15.6
 MB O 16.5
 MB P 19.6

Mean D.M.%: 53.9