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67/S/SAX/B/1/C/44 Formalin N and Lime - Barley

Rothamsted Research

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67/C/44.1

BARLEY

(SAX/B/1)

Formalin, nitrogen and lime for barley, Saxmundham, Grove Plot, 1967, the first year.

Design: A single replicate of 2 x 2 x 2 x 2 x 2 in 2 blocks of 16 plots, with 2 additional plots per block.

Area of each plot: 0.0022. Area harvested: 0.0011.

Treatments: All combinations of:-

1. Formalin: None (O), formalin at 532 gals in 2900 gals (F).
2. Nitrogen: 0.6 (N1), 1.2 (N2) cwt N as calcium nitrate.
3. Time of application of nitrogen: Early (E), late (L).
4. Lime: None (O), 7.5 tons of ground chalk (C).
5. Variety: Deba Abed (A), Maris Badger (B).

Additional plots: One of Deba Abed (A), one of Maris Badger (B), each with no formalin, nitrogen or lime.

Basal applications: 0.5 cwt P₂O₅, 0.5 cwt K₂O as (0:20:20).

Weedkiller: 2,4-DP/MCPA (Cornox RK Extra at 6 pints in 50 gals).

Cultivations, etc.: Ploughed: Nov 29 - Dec 16, 1966.

Formalin applied: Feb 7, 1967. Basal PK and first dressing of ground chalk (5 tons) applied: Feb 8. Calcium nitrate (E treatment) and second dressing of ground chalk (2.5 tons) applied, seed drilled at 160 lb: Mar 21. Calcium nitrate (L treatment) and weedkiller applied: May 11. Harvested by hand: Aug 15.

NOTE: Soil samples were taken for N determination before sowing.

Standard error per plot.

Grain: 2.71 or 6.9% (5 d.f.)

67/C/44.2

SUMMARY OF RESULTS

GRAIN

	N1	N2	E	L	O	C	A	B	Mean
	(±0.96)		(±0.96)		(±0.96)		(±0.96)		(±0.68)
O	36.0	40.9	35.1	41.8	38.8	38.1	39.7	37.3	38.5
F	39.8	40.5	37.5	42.8	39.4	40.9	41.9	38.5	40.2
			(±0.96)		(±0.96)		(±0.96)		(±0.68)
		N1	31.6	44.2	37.4	38.5	38.1	37.7	37.9
		N2	41.0	40.4	40.8	40.6	43.4	38.0	40.7
					(±0.96)		(±0.96)		(±0.68)
				E	35.8	36.9	37.0	35.7	36.3
				L	42.4	42.2	44.6	40.0	42.3
							(±0.96)		(±0.68)
						O	40.6	37.6	39.1
						C	40.9	38.1	39.5
Mean (±0.68)							40.8	37.9	39.3

Additional plots

A	B
16.1	27.7

General mean: 37.4
 Mean D.M. %: 79.1

67/C/4.3

		STRAW							Mean	
		N1	N2	E	L	O	C	A	B	
O		35.9	44.3	35.7	44.5	40.6	39.6	36.9	43.4	40.1
	F	40.4	45.0	38.8	46.6	41.3	44.1	40.4	44.9	42.7
			N1	31.4	44.9	37.6	38.7	34.5	41.8	38.1
			N2	43.0	46.3	44.2	45.1	42.8	46.6	44.7
				E	37.3	37.1	33.7	40.7	37.2	
				L	44.5	46.7	43.5	47.6	45.6	
						O	37.7	44.2	40.9	
						C	39.6	44.1	41.9	
Mean								38.6	44.2	41.4

Additional plots

A	B
13.5	28.5

General mean: 39.1
 Mean D.M. %: 74.9