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Yields of the Field Experiments 1967



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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 (0), 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 (0), 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 P205, 0.5 cwt K20 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

NI	N2	E	L	0	C	A	В	Mean
(±0.96)		(±0.96)		(±0.96)		(±0.96)		(±0.68)
36.0 39.8	40.9 40.5	35.1 37.5	41.8 42.8	38.8 39.4	38.1	39.7 41.9	37 .3 38 . 5	38.5 40.2
The state of		(±0.96)		(±0.96)		(±0.96)		(±0.68)
	N1 N2	31.6	44.2	37.4 40.8	38.5 40.6	38.1 43.4	37.7 38.0	37.9 40.7
101 12 11				(±0.96)		(±0.96)		
			E	35.8 42.4	36.9	37.0 44.6	35.7 40.0	36.3 42.3
al thing						(±0.96)		(±0.68)
1103					C	40.6	37.6 38.1	39.1 39.5
(±0.68)	stasite d person	resi .I.	1/3 to	es del di Ligita de	Los Long	40.8	37.9	39.3
	(±0. 36.0 39.8	(±0.96) 36.0 40.9 39.8 40.5	(±0.96) (±0. 36.0 40.9 35.1 39.8 40.5 37.5 (±0. N1 31.6 N2 41.0	(±0.96) (±0.96) 36.0 40.9 35.1 41.8 39.8 40.5 37.5 42.8 (±0.96) N1 31.6 44.2 N2 41.0 40.4	(±0.96) (±0.96) (±0. 36.0 40.9 35.1 41.8 38.8 39.4 (±0.96) (±0. N1 31.6 44.2 37.4 40.8 (±0. N2 41.0 40.4 40.8 (±0.	(±0.96) (±0.96) (±0.96) 36.0 40.9 35.1 41.8 38.8 38.1 39.8 40.5 37.5 42.8 39.4 40.9 (±0.96) (±0.96) N1 31.6 44.2 37.4 38.5 N2 41.0 40.4 40.8 40.6 (±0.96) E 35.8 36.9 L 42.4 42.2	(±0.96) (±0.96) (±0.96) (±0.96) (±0.36.0 40.9 35.1 41.8 38.8 38.1 39.7 39.8 40.5 37.5 42.8 39.4 40.9 41.9 (±0.96) (±0.	(±0.96) (±0.96) (±0.96) (±0.96) 36.0 40.9 35.1 41.8 38.8 38.1 39.7 37.3 39.8 40.5 37.5 42.8 39.4 40.9 41.9 38.5 (±0.96) (±0.96) (±0.96) N1 31.6 44.2 37.4 38.5 38.1 37.7 N2 41.0 40.4 40.8 40.6 43.4 38.0 (±0.96) (±0.96) E 35.8 36.9 37.0 35.7 L 42.4 42.2 44.6 40.0 (±0.96) 0 40.6 37.6 C 40.9 38.1

Additional plots

A B

16.1 27.7

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

67/c/44.3

CHILD	

	NI	N2	E	L	0	C	A	В	Mean
O F	35.9	44.3 45.0	35.7 38.8	44.5 46.6	40.6 41.3	39.6 44.1	36.9 40.4	43.4 44.9	40.1 42.7
		N1 N2	31.4 43.0	44.9 46.3	37.6 44.2	38.7 45.1	34.5 42.8	41.8 46.6	38.1 44.7
				E	37.3 44.5	37 .1 46.7	33.7 43.5	40.7 47.6	37.2 45.6
	-					C	37.7 39.6	44.2 44.1	40.9 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