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68/C/40 Saxmundham Formalin, Nitrogen and Lime for Barley

Rothamsted Research

Rothamsted Research (1970) *68/C/40 Saxmundham Formalin, Nitrogen and Lime for Barley ; Numerical Results Of The Field Experiments 1968*, pp 277 - 280 - DOI:
<https://doi.org/10.23637/ERADOC-1-58>

68/C/40.1

BARLEY

(SAX/B/1)

Formalin, nitrogen and lime for barley, Saxmundham, Grove Plot, 1968, the second year.

Design: A half replicate of $2 \times 2 \times 2 \times 2 \times 2 \times 2$ 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 applied 1967: None (O), formalin at 532 gals in 2900 gals (R).
 2. Formalin applied 1968: None (O), formalin at 532 gals in 2900 gals (F).
 3. Nitrogen, applied 1967 and 1968: 0.6 (N1), 1.2 (N2) cwt N as calcium nitrate.
 4. Time of application of nitrogen, 1967 and 1968: Early (E), late (L).
 5. Lime applied 1967 and 1968: None (O), 7.5 tons of ground chalk (C).
 6. Variety, 1967 and 1968: Deba Abed (A), Maris Badger (B).
- Additional plots: One of Deba Abed 1967 and 1968 (A), one of Maris Badger (B), each with no formalin, no nitrogen (NO), and no lime, either in 1967 or in 1968.

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

Weedkiller: Ioxynil at 9 oz and mecoprop at 27 oz in 50 gals.

Cultivations, etc.: Ploughed: 24 Oct, 1967. Formalin applied: 23 Jan, 1968. Ground chalk applied: 15 Feb. Basal PK applied, seed drilled at 160 lb and calcium nitrate (E plots) applied: 14 Mar. Weedkiller applied, calcium nitrate applied to L plots: 15 May. Harvested: 14 Aug.

NOTES: (1) For the previous years' results see 'Results' 67/C/45.

(2) Soil samples were taken for N determination before sowing.

Standard error per plot.

Grain: 2.38 or 6.2% (12 d.f.)

SUMMARY OF RESULTS

GRAIN

	N1	N2	E	L	O	C	A	B	O	R	Mean
O	(±0.84)	36.7	(±0.84)	37.5	(±0.84)	37.9	(±0.84)	40.5	(±0.84)	36.6	(±0.60)
F		38.6		37.8		37.4		34.8		38.6	37.6
		39.4		38.1		38.9		43.7		39.0	39.0
	N1		(±0.84)	38.0	(±0.84)	37.3	(±0.84)	39.4	(±0.84)	37.6	(±0.60)
	N2			37.2		37.9		35.8		37.6	37.6
				38.7		38.3		44.7		38.1	39.0
				E	(±0.84)	38.5	(±0.84)	43.6	(±0.84)	39.1	(±0.60)
				L		38.7		33.6		38.1	38.6
						37.5		40.5		36.5	38.0
								41.8	(±0.84)	37.9	(±0.60)
						O		35.1		39.1	38.5
						C		33.9		37.8	38.1
								A	(±0.84)	41.8	(±0.60)
								B		42.4	42.1
										33.9	34.5
Mean (±0.60)										37.8	38.3

68/c/40.2

Additional plots (NO)

A B

10.0 13.7

General mean: 35.4

Mean D.M. %: 71.5

STRAW

	N1	N2	E	L	O	C	A	B	O	R	Mean
O	38.7	46.3	47.5	37.5	43.0	42.1	39.8	45.2	41.2	43.9	42.5
F	39.5	46.7	48.0	38.2	42.5	43.7	41.1	45.0	44.3	41.8	43.1
		N1	44.6	33.6	39.0	39.1	35.5	42.6	38.8	39.4	39.1
		N2	50.9	42.1	46.4	46.6	45.4	47.6	46.7	46.3	46.5
				E	47.6	47.9	45.8	49.6	48.4	47.1	47.7
				L	37.9	37.8	35.1	40.6	37.1	38.6	37.8
						O	40.5	44.9	42.1	43.3	42.7
						C	40.5	45.3	43.4	42.4	42.9
								A	40.7	40.2	40.5
								B	44.7	45.5	45.1
Mean									42.7	42.8	42.8

Additional plots (NO)

A B
9.1 12.4

General mean: 39.2
Mean D.M. %: 57.5

68/c/40.3

