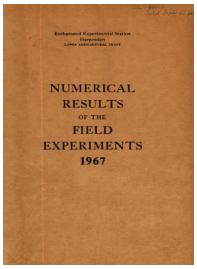
ROTHAMSTED RESEARCH

Yields of the Field Experiments 1967

Full Table of Content



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

Rothamsted Research

Rothamsted Research (1968) *67/S/SAX/B/1/C/44 Formalin N and Lime - Barley ;* Yields Of The Field Experiments 1967, pp 265 - 267 **- DOI: https://doi.org/10.23637/ERADOC-1-157**

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 P_2O_5, 0.5 cwt K_2O 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.)

https://doi.org/10.23637/ERADOC-1-157

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

	N1	N2	E	L	O	C	A	B	Mean
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

https://doi.org/10.23637/ERADOC-1-157