

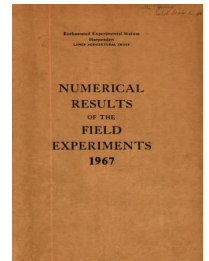
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1967

[Full Table of Content](#)



67/S/SAX/SS/1/C/35 Soil Sterilization

Rothamsted Research

Rothamsted Research (1968) *67/S/SAX/SS/1/C/35 Soil Sterilization* ; Yields Of The Field Experiments 1967, pp 239 - 240 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/35.1

SOIL STERILISATION EXPERIMENT

(SAX/SS/1)

Soil sterilisation and N, Saxmundham, Grove Plot, 1967 - barley, potatoes, sugar beet.

Design (each crop)*: 3 randomised blocks of 5 plots, with one plot sterilised and split for N.

* One block of potatoes was abandoned due to water-logging.

Area of each plot: 0.0022. Area harvested: 0.0019.

Treatments: No N	(NO)
0.5 cwt N	(N1)
1.0 cwt N	(N2)
1.5 cwt N	(N3)
Sterilised with methyl bromide** and plots split for N1 v N2	(S)

All N as 'Nitro-Chalk'.

** At 520 lb.

Basal applications: 1.0 cwt P2O5, 2.0 cwt K2O as (0:10:20).

Cultivations, etc.: Ploughed: Nov 29 - Dec 16, 1966. Basal PK applied: Mar 15, 1967. N applied, methyl bromide applied: Mar 21.

Potatoes: Planted: Mar 29, 1967. Lifted: Sept 1. Variety: King Edward.

Barley: Seed drilled: Mar 29, 1967. Harvested by hand: Aug 15. Variety: Maris Badger.

Sugar beet: Seed drilled: Mar 30, 1967. Lifted: Sept 19. Variety: Klein E.

Previous crops: Barley 1965, fallow 1966.

NOTE: The yields from the two halves of the S plots (SN1 and SN2) were bulked at harvest.

67/c/35.2

Standard errors per plot.

Potatoes. Total tubers:	1.683 or 17.3% (4 d.f.)
Barley. Grain:	4.24 or 13.3% (8 d.f.)
Sugar beet. Roots (washed):	2.743 or 15.1% (8 d.f.)
Tops:	2.026 or 23.3% (8 d.f.)

SUMMARY OF RESULTS

NO	N1	N2	N3	S	Mean
POTATOES					
TOTAL TUBERS					
(+1.190)					
8.48	9.56	8.91	9.72	11.84	9.70
BARLEY					
GRAIN					
(+2.45)					
17.6	31.8	34.9	38.9	36.1	31.9
STRAW					
16.0	31.8	36.7	43.2	40.7	33.7
SUGAR BEET					
ROOTS					
(+1.584)					
14.88	17.74	17.93	20.36	19.89	18.16
TOPS					
(+1.170)					
7.95	6.81	10.43	11.07	7.14	8.68