

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

## Numerical Results of the Field Experiments 1968

[Full Table of Content](#)

INTERNATIONAL DOCUMENTATION SERVICE  
AGRICULTURE  
LONDON AGRICULTURAL BOOKS  
PUBLISHED BY THE  
ROTHAMSTED  
RESEARCH  
UNIT  
ROTHAMSTED, HANTS, RG2 9AT, ENGLAND  
TELEPHONE: 01235 833111 FAX: 01235 833112  
E-MAIL: [eradoc@ Rothamsted.ac.uk](mailto:eradoc@ Rothamsted.ac.uk)  
WWW: <http://www.Rothamsted.ac.uk/eradoc>  
PUBLISHED BY:  
Rothamsted Research

### 68/C/30 Effect of Soil Compaction on Growth of Sugar Beet

#### Rothamsted Research

Rothamsted Research (1970) *68/C/30 Effect of Soil Compaction on Growth of Sugar Beet ; Numerical Results Of The Field Experiments 1968*, pp 243 - 246 - DOI:

<https://doi.org/10.23637/ERADOC-1-58>

68/c/30.1

SUGAR BEET

Effect of soil compaction on growth of sugar beet, Saxmundham Grove Plot 1968, the second year. Treatments, etc. were repeated on the same plots as 1967. For details and for the previous year's results see 'Results' 67/De/1.

Area of each plot: 0.0145. Area harvested: 0.0021.

Cultivations, etc.: Ploughed: 24 Oct, 1967. Half phosphate dressing applied to NP sub-plots: 30 Jan, 1968. A plots rotary cultivated: 2 Feb. A plots rolled and lightly harrowed: 13 Mar. Basal PK, 'Nitro-Chalk' and second half phosphate dressing applied (NP sub-plots), all plots except A plots harrowed to a seedbed, B plots rolled: 26 Mar. Seed drilled at 7 lb: 27 Mar. Sprayed with pyramin at 2.2 lb in 33 gals: 2 Apr. Singled: 16 May. Sprayed with DDT at 9 oz in 18 gals: 23 May. Lifted: 24 Sept. Variety: Sharpe's Klein E.

Standard errors per plot.

Roots (washed):	Whole plot: 0.659 or 3.8% (6 d.f.)
	Sub plot: 0.738 or 4.3% (27 d.f.)
Total sugar:	Whole plot: 2.31 or 4.0% (6 d.f.)
	Sub plot: 2.69 or 4.7% (27 d.f.)

68/c/30.2

SUMMARY OF RESULTS

	N1	N2	N3	N2P	Mean
ROOTS (WASHED)					
(1) and (2)					
					(±0.330)
A	14.07	16.83	17.88	17.69	16.62
B	16.15	17.10	18.12	17.66	17.26
C	17.39	17.91	17.72	19.47	18.12
Mean (±0.213)	15.87	17.28	17.91	18.28	17.33
SUGAR %					
A	16.7	16.7	16.3	16.5	16.6
B	16.8	16.5	16.2	16.4	16.5
C	16.8	16.5	15.9	16.5	16.4
Mean	16.8	16.6	16.1	16.5	16.5

(1) (±0.459) For use in vertical and diagonal comparisons only

(2) (±0.369) For use in horizontal and interaction comparisons only

68/c/30.3

	N1	N2	N3	N2P	Mean
TOTAL SUGAR					
(1) and (2)					
					(±1.16)
A	47.1	56.2	58.1	58.5	55.0
B	54.3	56.5	58.8	57.8	56.8
C	58.4	59.1	56.2	64.2	59.5
Mean (±0.78)	53.3	57.3	57.7	60.2	57.1
PLANT NUMBER					
A	45.4	43.6	42.4	42.2	43.4
B	45.6	46.0	43.0	42.7	44.3
C	44.3	45.5	44.6	41.6	44.0
Mean	45.1	45.0	43.3	42.2	43.9

(1) (±1.64) For use in vertical and diagonal comparisons only

(2) (±1.34) For use in horizontal and interaction comparisons only

5-27-1988

Mean	SE	SE	SE	SE	
PLANT HEIGHT					
(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	
1.25	0.05	1.25	0.05	1.25	
1.25	0.05	1.25	0.05	1.25	
1.25	0.05	1.25	0.05	1.25	
Mean (±SE)	0.05	1.25	0.05	1.25	
PLANT WEIGHT					
(1) (2)	(1) (2)	(1) (2)	(1) (2)	(1) (2)	
1.25	0.05	1.25	0.05	1.25	
1.25	0.05	1.25	0.05	1.25	
1.25	0.05	1.25	0.05	1.25	
Mean	0.05	1.25	0.05	1.25	

(1) (2) For use in vertical and diagonal comparisons only  
 (3) (4) For use in horizontal and horizontal comparisons only