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Numerical Results of the Field Experiments 1968

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

Rothamsted Research

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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

2019-03

Mean	SE	SD	SE	SD	SE
STANDARD DEVIATION					
(1) (1)		(2) (1)			
10.2	0.8	10.1	0.8	10.1	0.8
10.1	0.8	10.2	0.8	10.2	0.8
10.3	0.8	10.3	0.8	10.3	0.8
MEAN (SD)					
10.2	0.8	10.2	0.8	10.2	0.8
STANDARD DEVIATION					
10.2	0.8	10.2	0.8	10.2	0.8
10.2	0.8	10.2	0.8	10.2	0.8
10.2	0.8	10.2	0.8	10.2	0.8
MEAN (SD)					
10.2	0.8	10.2	0.8	10.2	0.8

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