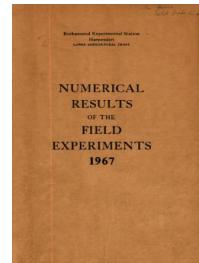


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Yields of the Field Experiments 1967

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67/W/WCM/C/40 Ploughsole Dd - Sugar Beet

Rothamsted Research

Rothamsted Research (1968) *67/W/WCM/C/40 Ploughsole Dd - Sugar Beet ; Yields Of The Field Experiments 1967*, pp 255 - 258 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/c/40.1

PLOUGHSOLE D-D

(WCM)

The effect of 'D-D' (dichloropropane-dichloropropene) in the control
of Trichodorus and Longidorus in sugar beet - Woburn Butt
Furlong 1967.

Design: 6 randomised blocks of 4 plots, split into 3 for N.

Area of each sub plot: 0.0064. Area harvested: 0.0032.

Treatments: All combinations of:-

Whole plots: D-D: None (D0), 65 (D1), 140 (D2), 250 lb D-D
(dichloropropane-dichloropropene) (D3).

Sub plots: Nitrogen: 0.6 (N1), 1.2 (N2), 1.8 cwt N (N3) as
'Nitro-Chalk'.

Basal applications: 360 lb (0:14:28). Salt: 4 cwt. Insecticide:
Demeton-s-methyl at 3.12 fl oz in 30 gals on two occasions.

Cultivations, etc.: Ploughed with D-D applications: Jan 13 - 15, 1967.
Salt applied: Feb 6. PK fertiliser applied: Mar 17. 'Nitro-Chalk'
applied: Mar 28. Seed drilled at 5 lb: Mar 30. Singled:
May 18 - 19. Insecticide applied: June 9, July 10. Lifted:
Oct 12. Variety: Klein E. Previous crops: Carrots and sugar beet
1966, barley 1965.

NOTE: Samples were taken monthly from May to October for nematode
counts.

Standard errors per plot.

Roots (washed), Whole plot: 1.229 or 12.8% (15 d.f.)

Sub plot: 1.395 or 14.6% (40 d.f.)

Total sugar, Whole plot: 3.79 or 13.7% (15 d.f.)

Sub plot: 4.72 or 17.1% (40 d.f.)

Tops, Whole plot: 1.531 or 13.1% (15 d.f.)

Sub plot: 1.328 or 11.4% (40 d.f.)

67/c/4c.2

SUMMARY OF RESULTS

	N1	N2	N3	Mean
ROOTS (WASHED)				
(1) and (2)				
D0	7.27	8.14	8.68	8.03
D1	9.03	9.34	10.38	9.58
D2	9.77	11.61	10.53	10.64
D3	9.11	10.12	10.82	10.02
Mean (± 0.285)	8.79	9.80	10.11	9.57

(1) (± 0.684) For use in vertical and diagonal comparisons

(2) (± 0.569) For use in horizontal and interaction comparisons

	SUGAR %			
D0	14.5	14.3	13.9	14.2
D1	14.8	14.3	13.9	14.4
D2	14.6	14.5	13.9	14.3
D3	14.6	14.2	13.8	14.2
Mean	14.7	14.3	13.9	14.3

67/c/40.3

	N1	N2	N3	Mean
TOTAL SUGAR				
	(1) and (2)			(± 1.55)
D0	21.3	23.6	24.3	23.1
D1	27.3	27.1	29.1	27.8
D2	28.8	34.1	29.5	30.8
D3	27.0	28.9	30.1	28.7
Mean (± 0.96)	26.1	28.4	28.3	27.6

(1) (± 2.21) For use in vertical and diagonal comparisons

(2) (± 1.93) For use in horizontal and interaction comparisons

	TOPS			
	(1) and (2)			(± 0.625)
D0	8.26	10.26	12.45	10.33
D1	9.89	11.09	15.07	12.02
D2	10.07	13.33	13.87	12.42
D3	9.65	12.22	13.71	11.86
Mean (± 0.271)	9.47	11.73	13.77	11.66

(1) (± 0.766) For use in vertical and diagonal comparisons

(2) (± 0.542) For use in horizontal and interaction comparisons

67/C/40.4

	N1	N2	N3	Mean
PLANT NUMBER				
D0	60.1	60.6	59.0	59.9
D1	58.2	58.4	57.7	58.1
D2	57.7	61.1	56.7	58.5
D3	56.2	56.3	57.8	56.7
Mean	58.1	59.1	57.8	58.3