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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

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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/40.2

SUMMARY OF RESULTS

	N1	N2	N3	Mean
ROOTS (WASHED)				
(1) and (2)				(±0.502)
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