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Yields of the Field Experiments 1953

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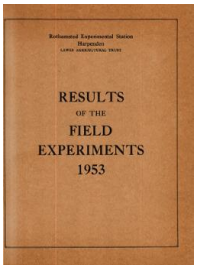

53/CJ/1 Carrots - Soil Conditioners - Rothamsted (2) and Woburn (2)

Rothamsted Research

Rothamsted Research (1954) *53/CJ/1 Carrots - Soil Conditioners - Rothamsted (2) and Woburn (2) ;* Yields Of The Field Experiments 1953, pp 105 - 106 **- DOI: https://doi.org/10.23637/ERADOC-1-173**

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53/Ch/2.1

CARROTS

Soil conditioners - Rothamsted, Long Hoos VI and Stackyard; Woburn, Stackyard and Warren Field.

System of replication: 4 x 4 Latin square.

Area of each plot: 0.00207 acre. Area harvested: 0.00138 acre.

Treatments:
None and 3 proprietary soil conditioners A, B and C each at 10 cwt per acre active material, rotary cultivated in to 6".

Basal dressing: 5 cwt compound fertilizer (7% N; 7% P_2O_5; 10.5% K_2O) per acre.

Cultivations, etc.:
Long Hoos VI (R). Ploughed: Jan 22. Roto tilled, soil conditioners and basal dressing applied, rotor tilled: Mar 20. Seed drilled: Apr 20. Lifted: Sept 25 and Oct 28. Previous crop: Sugar beet.
Stackyard (R). Ploughed: Oct 20, 1952 and again Mar 9, 1953. Roto tilled, soil conditioners and basal dressing applied, roto tilled: Mar 21. Seed drilled: Apr 20. Lifted: Oct 19 and 24. Previous crop: Wheat.
Stackyard (W). Hand dug: Jan 23. Soil conditioners applied: Mar 25 and Apr 23. Seed drilled: May 5. Basal dressing applied: May 15. Singled: July 2. Lifted: Oct 12. Previous crop: Fallow.
Warren Field (W). Hand dug: Jan 27. Soil conditioners applied: Mar 25 and Apr 23. Seed sown: May 6. Basal dressing applied: May 15. Singled: June 23. Lifted: Aug 27-Sept 22. Previous crop: Barley.
All fields. Variety: James' Scarlet Intermediate.

Standard errors per plot: Roots: tons per acre
Long Hoos VI (R): 1.21 tons per acre or 4.3% (6 d.f.)
Stackyard (R): 1.51 tons per acre or 6.5% (6 d.f.)
Stackyard (W): 1.24 tons per acre or 13.3% (3 d.f.)*
Warren Field (W): 0.82 tons per acre or 6.4% (6 d.f.)

*1 row of the Latin square received incorrect treatments.

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Summary of Results

	Soil conditioners 10 cwt per acre active material				
	None	A	B	C	Mean
Roots: tons per acre					
Rothamsted, Long Hoos VI					
Mean (±0.606)	28.26	28.91	27.13	29.08	28.35
Increase (±0.858)		+0.65	-1.13	+0.82	
Rothamsted, Stackyard					
Mean (±0.756)	23.80	24.93	21.65	23.06	23.36
Increase (±1.069)		+1.13	-2.15	-0.74	
Woburn, Stackyard					
Mean (±0.761)	8.74	9.66	9.38	9.62	9.35
Increase (±1.077)		+0.92	+0.64	+0.88	
Woburn, Warren Field					
Mean (±0.410)	11.75	12.30	13.75	13.35	12.79
Increase (±0.579)		+0.55	+2.00	+1.60	

General means:	Plant no. thousands per acre	Percentage over $1\frac{1}{2}$" diameter
Woburn, Stackyard	167	50.9
Woburn, Warren Field	174	56.6