

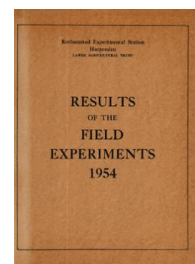
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## Yields of the Field Experiments 1954

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### 54/R/CG/1 and 54/W/CG/1 Carrots - Residuals of Soil Conditioners (2)

#### Rothamsted Research

Rothamsted Research (1955) *54/R/CG/1 and 54/W/CG/1 Carrots - Residuals of Soil Conditioners (2)* ;  
Yields Of The Field Experiments 1954, pp 93 - 94 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Cg/1.1

### CARROTS

Residual effects of soil conditioners - Rothamsted (R), Long Hoos VI and Stackyard; Woburn (W), Stackyard and Warren Field.

System of replication: 4 × 4 Latin square.

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

Treatments applied in 1953:

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<sub>2</sub>O<sub>5</sub>; 10.5% K<sub>2</sub>O) per acre.

Cultivations, etc.:

Long Hoos VI (R). Ploughed: Dec 30, 1953 and again Mar 17, 1954. Roto tilled twice: Apr 23 and Apr 26. Basal fertilizer applied, seed hand drilled at 8 lb per acre: Apr 26. Thinned: July 21. Lifted: Dec 15.

Stackyard (R). Ploughed: Mar 17 and again Apr 14. Roto tilled 3 times: Apr 23, 24, 26. Basal fertilizer applied, seed hand drilled at 8 lb per acre: Apr 26. Thinned: Aug 9. Lifted: Dec 15.

Stackyard (W). Roto tilled: May 10. Basal fertilizer applied, seed drilled: May 18. Singled: Aug 18. Lifted: Dec 15.

Warren Field (W). Roto tilled: May 6. Basal fertilizer applied, seed drilled: May 17. Lifted: Dec 3.

All fields. Variety: James' Scarlet Intermediate.

Standard errors per plot. Roots: tons per acre.

Long Hoos VI (R): 1.49 tons per acre or 7.8% (6 d.f.)  
Stackyard (R): 1.41 tons per acre or 28.7% (6 d.f.)  
Stackyard (W): 1.04 tons per acre or 13.1% (3 d.f.)\*  
Warren Field (W): 0.386 tons per acre or 6.8% (6 d.f.)

\*1 row of the Latin square received incorrect treatments.

54/Cg/1.2

Summary of Results

Soil conditioners 10 cwt per acre active material applied 1953				
None	A	B	C	Mean

Roots: tons per acre

Rothamsted, Long Hoos VI

Mean ( $\pm 0.746$ )	18.94	20.48	19.36	18.09	19.22
Increase ( $\pm 1.055$ )		+1.54	+0.42	-0.85	

Rothamsted, Stackyard

Mean ( $\pm 0.706$ )	5.13	4.72	3.96	5.87	4.92
Increase ( $\pm 0.999$ )		-0.41	-1.17	+0.74	

Woburn, Stackyard

Mean ( $\pm 0.639$ )	7.67	7.95	7.14	9.07	7.96
Increase ( $\pm 0.904$ )		+0.28	-0.53	+1.40	

Woburn, Warren Field

Mean ( $\pm 0.193$ )	5.08	5.55	5.52	6.37	5.63
Increase ( $\pm 0.273$ )		+0.47	+0.44	+1.29	

Plant number  
thousands per acre

Percentage over  
 $1\frac{1}{2}$ " diameter

General Means:

<u>Woburn, Stackyard</u>	137	51.6
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