

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1954

[Full Table of Content](#)



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% P₂O₅; 10.5% K₂O) 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 (± 0.746)	18.94	20.48	19.36	18.09	19.22
Increase (± 1.055)		+1.54	+0.42	-0.85	

Rothamsted, Stackyard

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

Woburn, Stackyard

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

Woburn, Warren Field

Mean (± 0.193)	5.08	5.55	5.52	6.37	5.63
Increase (± 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
--------------------------	-----	------