

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 1965

[Full Table of Content](#)



## 65/W/C/19 Soil Structure 2 Woburn - Red Beet

### Rothamsted Research

Rothamsted Research (1966) *65/W/C/19 Soil Structure 2 Woburn - Red Beet* ; Yields Of The Field Experiments 1965, pp 187 - 188 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/C/19.1

## SOIL STRUCTURE 2

Effects of peat (annual applications) and subsoiling (1963 only)  
Woburn Stackyard Field, plot 6 of the Continuous Barley site,  
red beet 1963, carrots 1964, red beet 1965.

Design: 4 randomised blocks of 5 plots each. Two blocks subsoiled.

Area of each plot: 0.0016. Area harvested: 0.0010.

Treatments: All combinations of:-

Blocks 1. Subsoiling: None (0) subsoiled (S) by hand to depth  
of 20 inches in 1963.

Whole plots 2. Peat: None, 62.5 cwt peat dry matter applied to  
top 2 inches of soil in 1965 only (Sb 65), 1963 - 65  
cumulative dressings, 62.5 cwt peat dry matter applied  
annually to top 2 inches soil alone (Sb), or with peat  
dug in annually to a depth of 8 inches either at the  
same rate (Dg 1) or at twice the rate (Dg 2).

Basal dressings: Monoammonium phosphate, potassium nitrate, ammonium  
nitrate and magnesium sulphate to supply 200 lb N, 75 lb P,  
250 lb K, 50 lb Mg: 3/4 of the fertilisers being dug in, 1/4 worked  
into the seedbed.

Cultivations, etc.:

Fertilisers for digging in applied: Mar 10. Peat for digging in  
applied and plots dug: Mar 31 - Apr 1. Seedbed peat applied:  
Apr 21. Seedbed fertilisers applied and seedbed prepared:  
May 5. Seed, rubbed and graded, drilled at 30 lb: May 6.  
Singled first to 2'' spacing: May 27 and 31, then to 4'' spacing:  
June 28. Sprayed with a mixture of menazon, DDT and gamma  
BHC at 1.5 fluid oz in 40 gals: May 21 and June 21. Lifted:  
Aug 12. Variety: Detroit Globe.

NOTE: Crop samples taken for estimation of dry matter and PK analysis.  
Soil samples taken for determinations of pH and readily soluble PK.

Standard errors per plot.

Roots: 0.723 or 4.5% (12 d.f.)  
Tops: 0.615 or 5.6% (12 d.f.)  
Roots and Tops: 1.215 or 4.5% (12 d.f.)

65/c/19.2

SUMMARY OF RESULTS

RED BEET

1965

	O	Sb65	Sb	Dg1	Dg2	Mean
ROOTS						
1963			(±0.511)*			
O	14.58	15.78	16.20	16.31	16.10	15.80
S	15.88	16.42	16.70	16.74	16.86	16.52
Mean	15.24	16.10	16.45	16.53	16.48	16.16
TOPS						
			(±0.435)*			
O	10.34	10.52	10.88	11.46	10.20	10.68
S	11.20	11.54	11.28	10.94	11.42	11.28
Mean	10.77	11.03	11.08	11.20	10.81	10.98
ROOTS AND TOPS						
			(±0.859)*			
O	24.93	26.29	27.09	27.78	26.29	26.48
S	27.08	27.97	27.97	27.68	28.28	27.79
Mean	26.00	27.13	27.53	27.73	27.28	27.13

\* For use in horizontal and interaction comparisons only.