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

Rothamsted Research

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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						
O	10.34	10.52	(±0.435)*	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						
O	24.93	26.29	(±0.859)*	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.