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64/W/C/21 Soil Structure 4 - Red Beet

Rothamsted Research

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64/C/21.1

SOIL STRUCTURE 4

The effects of Krilium and peat - Woburn Stackyard Field, plot 6 of Continuous Barley site, red beet 1964.

Design: 3 randomised blocks of 4 plots each.

Area of each plot: 0.0006. Area harvested: 0.0005.

Treatments. All combinations of:-

1. Krilium: None (0), Krilium CRD 189 at 10 cwt active ingredient (Kr).
2. Peat: None (0), 90 cwt peat dry matter (Pt). The Krilium and peat were applied to the seedbed and worked into the top 2 inches.

Basal dressing: Monoammonium phosphate, potassium nitrate, ammonium nitrate and magnesium sulphate to supply 200 lb N, 75 lb P, 250 lb K, 50 lb Mg. All fertilisers were dug in except one fifth N which was applied to the seedbed and worked in.

Cultivations, etc.: Ground chalk applied at 2 tons, plots rotavated, fertilisers applied, plots dug: Apr 13, 1964. Krilium and peat applied, all plots worked with drags: Apr 29. Ground chalk applied at 1 ton and one fifth N applied, seed drilled at 30 lb: May 1. Sprayed with DDT at 0.6 lb in 20 gals: May 20. Singled: June 15. Sprayed 3 times with a mixture of menazon, DDT and gamma BHC at 1.5 fluid oz in 40 gals: June 25, July 14 and 21. Lifted: Aug 5. Variety: Detroit Globe.

NOTE: Crop samples were taken for estimation of dry matter and chemical analysis.

Standard errors per plot.

Roots:	0.711 or 5.1% (6 d.f.)
Tops:	0.465 or 6.5% (6 d.f.)
Roots and Tops:	1.160 or 5.5% (6 d.f.)

64/C/21.2

SUMMARY OF RESULTS

	O	Pt	Mean
ROOTS			
	(± 0.410)		(± 0.290)
O	12.64	13.04	12.84
Kr	13.60	16.12	14.86
Mean (± 0.290)	13.12	14.58	13.85
TOPS			
	(± 0.269)		(± 0.190)
O	6.89	6.64	6.77
Kr	7.05	7.94	7.50
Mean (± 0.190)	6.97	7.29	7.13
ROOTS AND TOPS			
	(± 0.670)		(± 0.474)
O	19.52	19.69	19.60
Kr	20.65	24.06	22.35
Mean (± 0.474)	20.08	21.88	20.98