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65/W/C/20 Soil Structure 4 - Lettuce and Red Beet

Rothamsted Research

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65/C/20.1

SOIL STRUCTURE 4

Effects of Krilium and peat, Woburn Stackyard Field, plot 6 of Continuous Barley site, red beet 1964, lettuce followed by red beet 1965.

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 treatments were applied to the same plots as in 1964. After hand digging the 1964 applications were buried and the 1965 treatments were applied to the seedbed and worked into the top 2 inches.

Basal dressings: Monoammonium phosphate, potassium nitrate, ammonium nitrate and magnesium sulphate to supply

1. Lettuce: 100 lb N, 75 lb P, 200 lb K, 50 lb Mg $\frac{3}{4}$ dug in $\frac{1}{4}$ to seedbed.

2. Red beet: 200 lb N, 75 lb P, 200 lb K, 50 lb Mg all to seedbed except half the N applied as top dressing.

Cultivations, etc.:

Lettuce. Fertilisers for digging in applied: Mar 10, 1965. All plots hand dug: Apr 1. Peat and Krilium applied and worked into the seedbed: Apr 22. Fertilisers to seedbed applied and seedbed prepared: May 5. Lettuce seed drilled at 3 lb: May 6. Singled first to 4 inch spacing: May 21, then to 8 inch spacing: June 14. Sprayed with a mixture of menazon, DDT and gamma BHC at 1.5 pints in 40 gals and cottoned against birds: May 21. Harvested: July 8. Variety: Borough Wonder.

Red beet. Seedbed fertilisers applied, prepared seedbed and seed drilled at 30 lb: July 9, 1965. Top dressing N applied: July 20. Singled, first to 2 inch spacing: July 28, then to 4 inch spacing: Aug 13. Sprayed with a mixture of menazon, DDT and gamma BHC at 1.5 pints in 40 gals: Aug 2. Lifted: Oct 19. Variety: Detroit Globe.

NOTE: Crop samples of both lettuce and red beet taken for determination of dry matter and samples retained for chemical analysis.

65/C/20.2

ERRATUM to 'Results' 64/C/21.1:- Under 'Cultivations etc.' the rate of menazon, DDT and gamma BHC should be 1.5 pints in 40 gals.

Standard errors per plot.

Lettuce, Total weight: 1.453 or 12.6% (6 d.f.)
 Red Beet, Roots: 0.358 or 3.0% (6 d.f.)
 Tops: 0.357 or 3.3% (6 d.f.)
 Roots + tops: 0.599 or 2.6% (6 d.f.)

SUMMARY OF RESULTS

	O	Pt	Mean
LETTUCE			
TOTAL WEIGHT			
	(±0.839)		(±0.593)
O	12.24	12.94	12.59
Kr	10.07	10.96	10.51
Mean (±0.593)	11.15	11.95	11.55

65/c/20.3

RED BEET

	O	Pt	Mean
ROOTS			
	(±0.207)		(±0.146)
O	11.55	11.49	11.52
Kr	12.30	11.71	12.01
Mean (±0.146)	11.92	11.60	11.76
TOPS			
	(±0.206)		(±0.146)
O	11.58	10.64	11.11
Kr	10.99	10.42	10.71
Mean (±0.146)	11.29	10.53	10.91
ROOTS + TOPS			
	(±0.346)		(±0.245)
O	23.13	22.14	22.63
Kr	23.30	22.14	22.72
Mean (±0.245)	23.21	22.14	22.67