

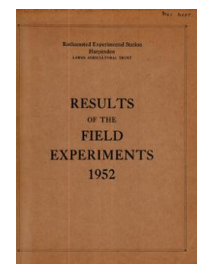
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# Yields of the Field Experiments 1952

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## 52/CJ/1 Various - Krilium - Rothamsted and Woburn

### Rothamsted Research

Rothamsted Research (1953) *52/CJ/1 Various - Krilium - Rothamsted and Woburn* ; Yields Of The Field Experiments 1952, pp 103 - 105 - DOI: <https://doi.org/10.23637/ERADOC-1-178>

52/Cj/1.1

CLOVER, RYEGRASS, RED BEET AND CARROTS

Krillium - Rothamsted, Fosters and Barnfield; Woburn, Stackyard and Warren Field.

System of replication: 4 x 4 Latin square.

Area of each plot: 0.00207 acre. Area harvested: Clover and Ryegrass - 0.000275 acre, Red beet and Carrots - 0.000689 acre.

Treatments:

Krillium per acre: None; 3 cwt broadcast and twice rotary cultivated in ( $K_1$ ); 6 cwt broadcast and twice rotary cultivated in ( $K_2$ ); 3 cwt broadcast and raked into seed bed ( $K_3$ ).

Basal manuring: 5 cwt Compound fertilizer (7% N, 7%  $P_2O_5$ , 10.5%  $K_2O$ ) per acre.

Cultivations, etc.: Rothamsted

Ploughed: Feb 13.  $K_1$  and  $K_2$  applied, all plots rotor tilled: May 14. Rotor tilled 2nd time, applied  $K_3$ , seeds drilled: May 15. Dusted red beet with DDT: June 4. 1st cut ryegrass: Fosters - July 25, Barnfield - Aug 27. Clover cut: Aug 29. 2nd cut ryegrass: Sept 18. Carrots lifted: Nov 13. Beet, Barnfield lifted: Nov 14. The beet on Fosters were damaged by sheep and the yields were not taken. Varieties: Clover - Crimson; Ryegrass - Western Walth; Carrots - James Scot Intermediate; Red Beet - Detroit.

Woburn

Ploughed: Stackyard - Sept 17 1951 and Jan 4 1952. Warren Field - Feb 22.  $K_1$  and  $K_2$  applied, all plots rotor tilled: May 14. Applied  $K_3$  and basal manures, rotor tilled, seeds drilled: May 15. Owing to rabbit damage the clover ryegrass and carrots on Warren Field were not harvested. Clover and ryegrass harvested: Aug 22. Beet lifted: Sept 12. Carrots lifted: Oct 30. Varieties: Clover - Scarlet Isles Trifolium; Ryegrass - Italian; Carrots - Scarlet Intermediate; Red Beet - Detroit.

52/Cj/1.2

Standard errors per plot:

Clover, fresh weight.

Fosters:	9.66 cwt per acre or 14.1% (6 d.f.)
Barnfield:	3.73 cwt per acre or 12.0% (6 d.f.)
Stackyard:	19.3 cwt per acre or 31.6% (6 d.f.)

Ryegrass, fresh weight.

Fosters, 1st cut:	2.09 cwt per acre or 22.0% (6 d.f.)
2nd cut:	10.9 cwt per acre or 17.3% (6 d.f.)
Barnfield, 1st cut:	5.86 cwt per acre or 9.9% (5 d.f.)*
2nd cut:	1.37 cwt per acre or 9.7% (6 d.f.)
Stackyard:	14.3 cwt per acre or 11.4% (6 d.f.)

Red Beet, weight of bulbs.

Barnfield:	0.960 tons per acre or 18.8% (6 d.f.)
Stackyard:	3.62 tons per acre or 39.9% (6 d.f.)
Warren Field:	0.436 tons per acre or 8.2% (6 d.f.)

Carrots, roots.

Fosters:	1.02 tons per acre or 7.8% (6 d.f.)
Barnfield:	0.525 tons per acre or 19.9% (6 d.f.)
Stackyard:	1.15 tons per acre or 33.5% (6 d.f.)

\*1 missing value.

Summary of Results

	Krilium: cwt per acre				Mean
	None	Broadcast 3	Broadcast in 6 seedbed 3		
Clover, fresh weight: cwt per acre					
	<u>Fosters</u>				
Mean ( $\pm 4.83$ )	67.0	66.8	68.2	72.8	68.7
Increase ( $\pm 6.83$ )		-0.2	+1.2	+5.8	
	<u>Barnfield</u>				
Mean ( $\pm 1.87$ )	30.4	31.0	31.0	32.2	31.2
Increase ( $\pm 2.64$ )		+0.6	+0.6	+1.8	
	<u>Stackyard</u>				
Mean ( $\pm 9.6$ )	60.7	63.2	62.4	58.3	61.1
Increase ( $\pm 13.6$ )		+2.5	+1.7	-2.4	

52/Cj/1.3

	Kriilium: cwt per acre				Mean
	None	Broadcast 3	Broadcast 6	Broadcast in seedbed 3	

Ryegrass, fresh weight: cwt per acre

	<u>Fosters, 1st cut</u>				
Mean ( $\pm 1.05$ )	9.2	9.2	9.7	9.9	9.5
Increase ( $\pm 1.48$ )		0.0	+0.5	+0.7	
	<u>Fosters, 2nd cut</u>				
Mean ( $\pm 5.43$ )	71.1	60.8	61.3	58.2	62.8
Increase ( $\pm 7.68$ )		-10.3	-9.8	-12.9	
	<u>Barnfield, 1st cut</u>				
Mean ( $\pm 2.93$ )	58.7	57.4	58.3	62.1	59.1
Increase ( $\pm 4.14$ )		-1.3	-0.4	+3.4	
	<u>Barnfield, 2nd cut</u>				
Mean ( $\pm 0.68$ )	15.5	14.2	12.4	14.5	14.1
Increase ( $\pm 0.97$ )		-1.3	-3.1	-1.0	
	<u>Stackyard</u>				
Mean ( $\pm 7.1$ )	132.2	123.0	124.5	123.0	125.7
Increase ( $\pm 10.1$ )		-9.2	-7.7	-9.2	

Red Beet, weight of bulbs: tons per acre

	<u>Barnfield</u>				
Mean ( $\pm 0.480$ )	5.56	5.49	4.57	4.83	5.11
Increase ( $\pm 0.679$ )		-0.07	-0.99	-0.73	
	<u>Stackyard</u>				
Mean ( $\pm 1.81$ )	9.01	10.26	9.61	7.47	9.09
Increase ( $\pm 2.56$ )		+1.25	+0.60	-1.54	
	<u>Warren Field</u>				
Mean ( $\pm 0.218$ )	5.61	4.12	5.93	5.64	5.32
Increase ( $\pm 0.308$ )		-1.49	+0.32	+0.03	

Carrots, roots: tons per acre

	<u>Fosters</u>				
Mean ( $\pm 0.510$ )	13.37	11.59	13.77	13.74	13.12
Increase ( $\pm 0.721$ )		-1.78	+0.40	+0.37	
	<u>Barnfield</u>				
Mean ( $\pm 0.263$ )	2.50	2.88	2.31	2.88	2.65
Increase ( $\pm 0.371$ )		+0.38	-0.19	+0.38	
	<u>Stackyard</u>				
Mean ( $\pm 0.577$ )	3.34	3.35	3.49	3.60	3.45
Increase ( $\pm 0.816$ )		+0.01	+0.15	+0.26	