

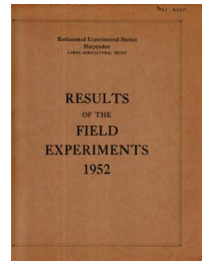
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Yields of the Field Experiments 1952

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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: 4×4 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 Tribium; 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

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

52/Cj/1.3

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

Ryegrass, fresh weight: cwt per acre

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

Red Beet, weight of bulbs: tons per acre

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

Carrots, roots: tons per acre

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