

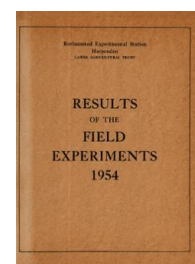
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54/R/A/4 Barnfield - Mangolds and Sugar Beet

Rothamsted Research

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54/A/4.1

MANGOLDS AND SUGAR BEET - BARNFIELD 1954

The 79th and 9th years

For history, details of treatments etc, see "Results of the Field Experiments 1939-47" Vol.I, Section A/5.

Cultivations, etc.: Dung applied: Nov 16, 1953. Ploughed: Nov 21. Fertilizers applied: Apr 11, 1954. Seed drilled, Mangolds - 9 lb, Sugar beet - 18 lb per acre: Apr 15. Singled: June 19 - July 21. Sprayed with miscible D.D.T. 3 pints per acre: July 19. Top dressings applied: July 17. Lifted: Mangolds - Nov 5, Sugar beet - Nov 13. Varieties: Mangolds - Yellow Globe, Sugar beet - Klein E.

Summary of Results

Strip	Cross Dressing				
	O	N	A	AC	C
Mangolds, Roots: tons per acre					
1	8.63	20.52	21.50	19.41	20.09
2	10.06	23.17	21.43	20.06	19.38
4	1.73	(a) 12.56 (b) 10.45 [‡]	10.85	11.99	14.68
5	1.71	10.94	9.03	8.61	9.35
6	1.47	12.03	10.94	12.82	13.22
7	1.73	11.34	11.31	14.45	14.42
8	0.99	5.13	4.99	8.43	10.40
9	10.85				
Mangolds, Leaves: tons per acre					
1	2.93	5.96	8.23	7.23	7.08
2	3.66	6.99	6.30	7.82	6.59
4	0.99	(a) 4.25 (b) 3.98 [‡]	4.25	6.28	5.74
5	0.83	3.57	3.00	3.86	3.81
6	0.84	3.76	3.74	4.23	4.23
7	0.94	3.76	4.86	6.30	6.06
8	0.66	2.64	3.52	4.27	5.08
9	4.20				
Mangolds, Plant Number: thousands per acre					
1	18.1	22.0	20.7	19.3	21.4
2	22.0	22.8	22.2	20.9	21.9
4	20.3	(a) 21.9 (b) 23.2 [‡]	20.5	18.9	22.7
5	20.5	22.2	21.4	19.4	22.1
6	19.2	21.9	20.8	18.2	22.2
7	20.3	21.8	20.8	20.2	21.9
8	19.4	16.5	20.1	18.7	21.0
9	20.8				

[‡]No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.

54/A/4.2

Strip	Cross Dressing				
	O	N	A	AC	C
Sugar Beet, Roots (washed): tons per acre					
1	5.17	9.11	10.60	10.20	9.42
2	6.12	8.61	8.17	8.40	9.26
4	1.17	(b) 5.48 [*]	5.91	8.81	7.23
5	1.60	5.09	5.21	6.88	5.95
6	1.00	5.09	5.75	8.82	6.88
7	1.38	5.61	5.08	7.28	6.63
8	1.22	3.38	3.96	6.13	5.73
Sugar Beet, Tops: tons per acre					
1	5.62	13.68	19.05	14.95	13.63
2	6.94	15.39	13.34	13.38	11.38
4	1.34	(b) 8.99 [*]	5.47	11.14	8.84
5	1.80	7.67	4.93	13.09	8.65
6	1.38	5.52	5.52	10.65	6.89
7	1.61	7.91	6.64	11.28	7.86
8	1.80	6.59	6.20	10.75	9.72
Sugar Beet, Plant Number: thousands per acre					
1	20.4	20.1	21.5	21.5	22.4
2	22.8	22.3	22.0	19.9	21.9
4	23.5	(b) 23.6 [*]	22.5	22.1	22.3
5	20.6	22.0	22.6	21.8	22.9
6	20.9	22.5	23.0	22.1	22.4
7	21.5	22.9	22.0	21.9	21.9
8	24.0	20.5	22.3	21.3	20.7
Sugar Beet, Sugar Percentage					
1	16.4	16.0	15.5	16.2	16.9
2	16.5	16.1	16.2	15.0	16.0
4	16.1	(b) 15.4 [*]	17.1	16.8	16.2
5	15.6	15.3	16.2	15.2	16.1
6	15.5	16.2	15.8	16.0	16.5
7	15.6	16.0	15.9	15.5	16.2
8	14.7	14.8	15.6	15.5	15.7

^{*}No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.