

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1954

[Full Table of Content](#)



---

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

#### Rothamsted Research

Rothamsted Research (1955) *54/R/A/4 Barnfield - Mangolds and Sugar Beet* ; Yields Of The Field Experiments 1954, pp 7 - 8 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

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 <sup>‡</sup>	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 <sup>‡</sup>	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 <sup>‡</sup>	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				

<sup>‡</sup>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 <sup>‡</sup>	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 <sup>‡</sup>	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 <sup>‡</sup>	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 <sup>‡</sup>	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

<sup>‡</sup>No nitrate of soda. Nitrogen applied as calcium and potassium nitrates.