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

Rothamsted Research

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58/A/4.1

MANGOLDS AND SUGAR BEET - BARNFIELD

The 83rd and 13th years

For history, treatments etc., see "Details of the Classical and Long Term Experiments" 1956.

Cultivations, etc.: Dung applied, ploughed: Nov 25, 1957.

Fertilizers applied: May 5, 1958. Sugar beet drilled at 18 lb per acre, mangolds drilled at 8 lb per acre: May 8. Singled: June 11 to July 5. Sprayed with demeton methyl at 12 oz in 40 gallons per acre: July 7. Top dressings applied: July 14. Lifted: Oct 11 - Nov 21. 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	12.74	31.56	28.54	24.15	17.27
2	17.06	36.47	30.34	30.34	25.70
4	6.38	(a) 26.80 (b) 27.47*	22.13	28.63	20.34
5	4.93	20.44	16.17	18.64	14.51
6	4.82	19.73	19.68	26.63	20.84
7	5.84	21.52	20.44	26.87	21.06
8	1.93	16.34	13.95	19.70	15.27
9	19.80				
Mangolds, leaves: tons per acre					
1	2.42	5.69	5.59	6.23	4.01
2	2.69	6.62	5.54	8.04	5.67
4	1.32	(a) 5.52* (b) 5.01	3.64	6.77	4.27
5	0.98	4.03	3.35	3.83	3.15
6	1.00	3.76	3.15	4.67	4.23
7	1.34	4.79	3.96	5.64	4.93
8	0.81	3.93	3.76	4.20	4.52
9	3.81				
Mangolds, plant number: thousands per acre					
1	18.9	19.7	19.1	18.0	17.7
2	23.6	20.8	20.5	19.5	20.7
4	21.8	(a) 21.8* (b) 21.1	20.3	19.7	20.2
5	21.6	21.3	21.9	20.7	21.5
6	20.5	21.5	20.7	20.2	21.0
7	20.9	21.8	21.0	20.4	21.3
8	19.0	20.5	21.5	21.4	21.6
9	24.0				

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

58/A/4.2

Strip	Cross Dressing				
	O	N	A	AC	C
Sugar beet, roots (washed): tons per acre					
1	9.04	13.41	13.47	14.26	10.84
2	6.85	12.69*	12.62	13.65	12.47
4	2.08	(b) 11.37*	10.43	14.31	12.75
5	2.77	8.76	9.29	10.76	9.84
6	1.89	9.95	10.32	13.65	11.83
7	2.43	10.30	10.60	12.64	10.81
8	1.89	7.41	7.56	11.24	9.22
9	8.39				
Sugar beet, tops: tons per acre					
1	6.64	13.14	16.61	17.00	15.29
2	6.20	14.85*	14.36	18.76	13.48
4	1.81	(b) 12.02*	6.50	14.70	11.92
5	1.61	10.11	7.82	15.88	10.11
6	1.66	10.60	6.55	15.09	10.70
7	1.91	13.24	9.62	17.05	11.14
8	1.86	9.67	7.57	15.24	11.87
9	7.43				
Sugar beet, plant number: thousands per acre					
1	23.7	22.7	23.4	22.8	22.9
2	24.3	22.8*	23.5	24.4	24.3
4	22.3	(b) 24.0*	24.5	23.6	24.9
5	23.0	23.7	23.5	22.2	23.9
6	22.7	24.3	24.9	24.8	25.2
7	22.3	24.3	23.9	23.3	23.3
8	22.4	23.0	24.4	25.0	25.0
9	22.6				
Sugar beet, sugar percentage					
1	17.9	17.2	17.0	17.0	16.8
2	17.7	17.0*	16.6	16.4	17.0
4	18.0	(b) 17.4*	18.4	17.4	17.6
5	17.7	16.9	17.8	16.5	17.1
6	17.4	17.2	18.2	17.0	17.4
7	17.8	17.6	18.3	16.9	17.5
8	17.4	17.3	18.0	17.2	17.3
9	17.9				

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