

Serial No. A7. ✓
ENS/0612

FIELD EXPERIMENTS 1938

Crop: Sugar Beet.

Field: E.

Experiment:

Periodic Lifting Trial.

Treatments & Layout:

4 randomised blocks.

Plots lifted at 14 day intervals.

Harvest plots 7 yds. by 2 rows.

Manuring with dates of:

Basal Manuring: 3 cwts. Super. }
2 cwts. K Salts } Applied 7th April.

3 cwts. ^N/S applied at time of drilling.

Date of drilling: 7th April
5th May

Variety: Marsters }
Klein E }

Seed Rate: 15 lbs.

Date of

Date of

Remarks (previous cropping, cultivations, etc.)

Note Book No.
Sugar Beet 1938-43.

Box File (1)

Sugar Beet, 1938.

Field E. Periodic Liftings.

	Early Marsters	Late Marsters	Early Klein	Late Klein	Mean	Sig. Dif
<u>Plant Populations.</u>						
14th Sept.	27,700	29,900	29,600	30,600	29,450	
28th Sept.	27,800	26,600	30,600	30,600	28,900	
12th October	26,400	26,400	28,300	30,600	27,920	
26th October	29,000	28,500	29,200	28,900	28,900	
9th November	26,800	29,600	28,000	30,800	28,800	
23rd November	29,200	28,500	28,300	29,200	28,800	
7th December	27,300	29,700	28,500	29,700	28,800	
9th January	28,900	28,500	29,000	30,800	29,300	
Mean	27,890	28,440	28,940	30,150	28,850	

Yield of Roots - Tons per Acre.

14th Sept.	6.21	5.13	8.80	5.75	6.47	0.66 tons/acre
28th Sept.	8.30	5.09	9.18	6.64	7.30	
12th October	7.13	5.28	8.83	6.48	6.94	
26th October	8.26	6.29	9.95	7.10	7.90	
9th November	7.18	5.32	8.64	6.60	6.94	
23rd November	8.68	5.67	10.73	7.02	8.03	
7th December	7.29	6.17	10.42	7.41	7.82	
9th January	8.91	6.40	10.49	8.22	8.51	
Mean	7.74	5.67	9.63	6.90	7.49	

Means: Marsters = 6.71 tons Klein = 8.27 tons
 Early = 8.69 tons Late = 6.29 tons } Sig. Diff. = 0.40 tons.

Sugar %.

14th Sept.	15.46	14.26	15.44	14.10	14.82	0.34 %
28th Sept.	15.92	14.50	15.32	14.54	15.07	
12th October	16.42	15.78	16.55	15.70	16.11	
26th October	16.80	15.84	16.62	16.00	16.32	
9th November	17.79	17.54	17.21	17.01	17.39	
23rd November	17.21	16.11	16.54	16.20	16.52	
7th December	16.28	16.76	16.65	16.23	16.52	
9th January	16.76	16.34	16.03	15.98	16.28	
Mean	16.58	15.89	16.31	15.72	16.13	

Significant Difference = 0.51 %
 Means: Marsters = 16.24% Klein 16.02%
 Early = 16.45% Late 15.81% } Sig. Diff. = 0.36%.

Yield of Sugar - Cwts. per Acre.

14th Sept.	19.3	14.7	27.2	16.2	19.33	2.33 cwts.
28th Sept.	26.4	14.8	28.1	19.3	22.17	
12th October	23.6	16.7	29.1	20.4	22.44	
26th October	27.8	20.0	33.2	22.7	25.92	
9th November	25.6	18.7	29.8	22.5	24.15	
23rd November	29.9	18.3	35.6	22.8	26.65	
7th December	23.7	20.7	35.0	24.0	25.87	
9th January	30.0	20.9	33.6	26.3	27.71	
Mean	25.80	18.10	31.45	21.77	24.28	

Means: Marsters = 21.94 cwts. Klein = 26.62 cwts.)
 Early = 28.62 cwts. Late = 19.94 cwts.) } Sig. Diff. = 1.80 cwts.