

Serial No. **AK**
ENS/0616

FIELD EXPERIMENTS 1942.

Crop: **Sugar Beet.**

Field: **B.**

Experiment: **Periodic Lifting Trial.**

Treatments & Layout: **4 Randomised Blocks.
April & May drilling.
Marsters v Klein.
Lifted at 14 day intervals.**

Manuring with dates of:

- 3 cwts Super.**
- 1 " M/P.**
- 3 " S/A at time of drilling.**

Date of drilling: **April 13th.
May 11th.**

Variety: **Marsters.
Klein.**

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 - Periodic Lifting Trial 1942.

Results.

	<u>Wt. Roots Tons/acre.</u>	<u>Sugar %</u>	<u>Sugar per acre - cwts.</u>
<u>(a) Time of Drilling.</u>			
13th April.	14.4	19.5	56.2
11th May.	12.0	19.2	46.0
Sig. Diff.	1.2	0.2	4.4
<u>(b) Comparison of Varieties</u>			
Klein E.	13.8	19.0	52.5
Marsters.	12.6	19.7	49.7
Sig. Diff.	0.5	0.2	2.1
<u>(c) Times of Lifting.</u>			
14th Sept.	10.6	18.7	40.0
28th Sept.	11.7	19.6	46.0
12th Oct.	13.2	19.3	50.8
26th Oct.	13.5	19.8	53.2
9th Nov.	14.2	18.9	53.6
23rd Nov.	13.9	19.5	54.1
7th Dec.	13.3	19.7	52.3
21st "	15.4	19.1	59.0
Sig. Diff.	0.7	0.3	2.9

Conclusions.

- (a) Late drilling decreased yield by 2.4 tons and also decreased sugar % and sugar per acre.
- (b) Klein E. gave a lower sugar percentage than Marsters but produced a greater weight of roots and sugar per acre.
- (c) The weight of the crop increased until mid-November, after which there was very little change.

Sugar percentage reached a ~~maximum~~ at the end of October and then fell slightly.