

FIELD EXPERIMENTS 1962

Crop: Sugar Beet

Field: Garden Pightle

Experiment: Juice Purity

Treatments & Layout: Duplicates of random samples
Treatments lifted on six successive weeks

A Machine lifted

B Machine lifted, hand trimming

C Hand topped conventionally

D Hand topped, leaves only removed

Plot Size: 30 roots per sample

Manuring with dates of:

8 cwt 16:9:9 compound on seedbed per acre

2 cwt 21% Nitro-chalk top dressing per acre

5 cwt Kainit and 2 tons lime per acre in autumn

Date of drilling: April 13th

Variety: Sharpe's Klein E

Seed rate: 8 lb per acre

Remarks (previous cropping, cultivations, etc.)

1961 Winter wheat

1960 Potatoes

1959 Peas

Note Book No.

Juice PurityRESULTS

Date lifted	<u>Juice Purity (Total Solids)</u>				Time of lifting means
	A	B	C	D	
5 Nov.	88.4	89.9	88.3	91.4	89.5
12 Nov.	88.8	90.5	90.0	88.3	89.4
19 Nov.	89.3	89.4	91.0	88.4	89.5
26 Nov.	88.3	89.2	91.0	90.2	89.7
10 Dec.	89.7	89.6	91.5	89.4	90.0
17 Dec.	89.8	91.6	91.4	90.9	90.9
Treatment Means	89.0	90.0	90.5	89.8	

Date lifted	<u>Sugar %</u>				Time of lifting means
	A	B	C	D	
5 Nov.	17.40	17.70	17.25	17.10	17.4
12 Nov.	17.08	17.75	18.18	17.28	17.6
19 Nov.	17.25	17.35	17.54	17.09	17.3
26 Nov.	16.41	17.05	17.14	17.35	17.0
10 Dec.	16.21	16.84	16.69	16.11	16.5
17 Dec.	16.36	17.00	16.47	16.11	16.5
Treatment Means	16.8	17.3	17.2	16.8	

- (1) During the period the Juice Purity increased slightly but sugar content fell by about 1%.
- (2) The Juice Purity was highest from conventionally hand topped beet and slightly lower from trimmed machine lifted beet. Sugar contents were similar on these two treatments.
- (3) Machine lifted beet and those with leaves only removed were lower than the other two treatments in sugar content. Juice purity was lowest on the machine lifted beet.