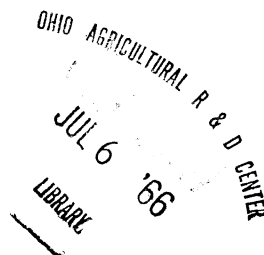


OHIO AGRICULTURAL EXPERIMENT STATION  
Muck Crops Substation, Celeryville, Ohio

✓ Department of Horticulture Mimeograph Series No. 265  
January 15, 1962

CELERY VARIETY TRIALS - 1961  
Celeryville, Ohio

Walter N. Brown<sup>1</sup>



Twenty varieties or strains of varieties were compared in replicated trials for late harvest. The results are given in Table 1.

CULTURAL INFORMATION

Seed Sown: April 10, seedlings transplanted to greenhouse benches on May 4 and the plants set in field on May 31, 1961.

Fertilizer: 500 lbs/A of 0-20-20 plowed down before planting. No side dressing of nitrogen was applied.

Spacing: Rows spaced 34" with approximately 6.5" between plants in the row 41 plants per 23' plot, 41 plants for record. Each single row plot replicated six times.

Growing Conditions: In general rainfall and temperatures during June and July were ideal, however, during the periods August 26-31 there was no precipitation and temperatures during the latter period were in the mid-80's. Most of the varieties were slightly overmature at harvest resulting in a higher than normal trimming loss. Although six replications were planted only five were used for record since the sixth replication was infested with Carrot Weevil larvae resulting in poor stand and reduced growth.

Temperature and rainfall during the growing period:

	Temperature	Precipitation
	Mean	Total
- June	6.7° F.	3.45"
July	70.2	2.41
August	69.9	2.67
- September 1-7	67.5	3.87

Date of Harvest: September 7, 1961

SOURCES OF SEED

<u>Code</u>	<u>Source</u>
A <sub>2</sub>	Asgrow Seed Co. Inc., 272 George St., New Haven 2, Conn.
B <sub>1</sub>	W. Atlee Burpee Co., P.O. Box 6929, Philadelphia 32, Pa.
B <sub>2</sub>	D. V. Burrell Seed Growers, Rocky Ford, Colo.
G <sub>1</sub>	Gill Bros. Seed Co., Montavilla Station, Portland 16, Ore.
H <sub>1</sub>	Joseph Harris Co. Inc., Moreton Farms, Rochester 11, N.Y.
H <sub>2</sub>	Holmes Seed Co., 1017 9th St. S.W., Canton 11, Ohio.
L <sub>2</sub>	Letherman Seed Co., 501 McKinley Ave. N.W., Canton 2, Ohio

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CELERY VARIETIES FOR LATE HARVEST, 1961  
Celeryville, Ohio

(5 replications)

Variety and Lot Number	Source	Average Weight per Large Stalk	YIELD PER PLOT			Petiole Count at 4" above Butt <sup>2</sup>	Petiole Length Butt - 1st Node <sup>3</sup>	Petiole Length Over-all <sup>4</sup>	Trimming Loss	Blight Rating <sup>5</sup>	Remarks
			Large Stalks <sup>1</sup>	Small Stalks	Market-able						
			lbs	lbs	lbs						
18. Green Light Tall Str. 532	H <sub>1</sub>	2.2	81.3	1.2	82.5	12.2	8.6	20.7	52.1	.50	High petiole count, good quality, holds well. Mod. chlorosis.
20. Delmar (XP 204) PC 59304	A <sub>2</sub>	2.2	73.6	1.3	74.9	10.7	8.8	22.0	50.5	.50	Later than 52-70. Holds well. Severe chl.
2. Utah 52-70 542	H <sub>1</sub>	2.2	72.9	2.6	75.5	9.9	8.9	21.1	51.4	2.16	Exc. vigor & uniformity Mod. chlorosis.
12. Utah No. 15 0014	G <sub>1</sub>	2.1	70.1	2.0	72.1	11.9	8.2	19.6	54.8	.66	Good vigor & uniformity Slight chlorosis.
7. Utah 52-70H 1308	H <sub>2</sub>	2.1	70.5	4.1	74.6	9.6	9.9	23.2	55.1	2.16	Exc. vigor & uniform. Slight chlorosis.
13. Utah No. 16-11 1406	L <sub>2</sub>	2.1	74.2	1.7	75.9	11.5	8.3	19.8	52.5	.33	Exc. vigor & uniform. Severe chlorosis.
11. Green Light Tall Str. 547	H <sub>1</sub>	2.0	74.0	1.1	75.1	11.8	8.6	20.4	55.5	1.00	Exc. vigor & uniform. Slight chlorosis.
LSD at 5% Level			12.4	0.7	12.5						

1 - Yield per plot of 23 feet. (to convert yields to 65 lb. crates per acre multiply by 11.8).

2 - Number of petioles 4" above butt.

3 - Length from butt to first node.

4 - Length from butt to tip node.

5. Blight rating:

0 - no blight, 5 - heavy infection.

CELERY VARIETIES FOR LATE HARVEST, 1961  
Celeryville, Ohio

(5 replications)

Variety and Lot Number	Source	Average Weight per Large Stalk	YIELD PER PLOT			Petiole Count at 4" above	Petiole Length Butt -	Petiole Length Over-all <sup>4</sup>	Trimming Loss	Blight Rating <sup>5</sup>	Remarks
			Large Stalks <sup>1</sup>	Small Stalks	Market-able						
			lbs	lbs	lbs						
3. Utah 52-70                      660	H <sub>2</sub>	2.0	69.7	3.0	72.7	10.1	8.5	21.8	52.4	1.83	Exc. vigor and uniformity. Moderate chlorosis.
4. Utah 52-70                      1-106	L <sub>2</sub>	2.00	65.7	3.7	69.4	10.8	9.3	21.6	56.2	1.83	Exc. vigor and uniformity. Moderate chlorosis.
8. Utah 52-70H                    1-5595	L <sub>2</sub>	1.9	58.6	5.2	63.8	10.4	9.5	20.9	59.8	1.83	Exc. vigor and uniformity <b>slight</b> chlorosis
10. Green Light Orig.            545	H <sub>1</sub>	1.9	63.9	2.0	65.9	11.0	7.4	19.4	56.8	1.33	Good vigor & uniformity, shorter petioles.
19. Tall Utah 52-70              209-15	B <sub>2</sub>	1.8	59.2	4.2	63.4	9.2	10.2	23.3	57.3	3.00	Exc. vigor & uniformity. Moderate chlorosis.
9. Tall Utah (Gills Sp.)        3194	G <sub>1</sub>	1.8	59.7	2.4	62.1	10.3	7.6	20.5	56.8	1.50	Exc. vigor & uniformity. No chlorosis.
1. Utah 52-70                      6872	B <sub>1</sub>	1.8	59.4	3.3	62.7	9.7	8.4	20.5	57.6	2.16	Earliest of 52-70 strains. Moderate chlorosis.
LSD at 5% Level			12.4	0.7	12.5						

1 - Yield per plot of 23 feet. (To convert yields to 65 lb. crates per acre multiply by 11.8).

2 - Number of petioles 4" above butt.

3 - Length from butt to first node.

4 - Length from butt to tip node.

5. Blight rating:

0 - no blight, 5 - heavy infection.

CELERY VARIETIES FOR LATE HARVEST, 1961  
Celeryville, Ohio

(5 replications)

Variety and Lot Number	Source	Average Weight per large stalk lbs	YIELD PER PLOT			Petiole Count at 4" above Butt <sup>2</sup>	Petiole Length Butt - 1st Node <sup>3</sup> in	Petiole Length Over-all <sup>4</sup> in	Trimming Loss %	Blight Rating <sup>5</sup>	Remarks
			Large <sub>1</sub> Stalks	Small Stalks	Market-able						
			lbs	lbs	lbs						
14. Compak 2            1-5506	L <sub>2</sub>	1.7	51.9	3.5	55.4	8.8	9.9	19.0	60.8	1.16	Exc. vigor & uniformity. Slight chlorosis.
15. Compak 2            507	H <sub>2</sub>	1.5	50.9	4.8	55.7	8.5	10.8	21.1	63.9	1.00	Exc. vigor & uniformity. Slight chlorosis.
17. Emerald            518	H <sub>2</sub>	1.5	47.6	3.9	51.5	10.2	7.5	16.8	63.4	.16	Exc. vigor and uniform. Moderate chlorosis.
6. Summer Pascal (Sel. Str.) 1-5506	L <sub>2</sub>	1.4	40.5	5.2	45.7	6.6	7.9	18.1	64.9	.16	Good vigor & uniformity. No chlorosis.
16. Spartan 162            1210	H <sub>2</sub>	1.3	39.8	3.9	43.7	8.9	8.8	20.7	67.5	.66	Good heart develop. Slight chlorosis
5. Summer Pascal (Waltham Imp.) 549	H <sub>1</sub>	1.3	34.8	6.4	41.2	6.9	7.5	16.0	69.0	.16	Good vigor and uniformity. No chlorosis.
LSD at 5% Level			12.4	0.7	12.5						

1 - Yield per plot of 23 feet. (To convert yields to 65 lbs. crates per acre, multiply by 11.8).

2 - Number of petioles 4" above butt.

3 - Length from butt to first node.

4 - Length from butt to tip node.

5 - Blight rating: 0 - no blight, 5 - heavy infection.