

OHIO AGRICULTURAL EXPERIMENT STATION
Muck Crops Substation, Celeryville, Ohio

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CELERY VARIETY TRIALS - 1958

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Cataloged
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Twenty varieties or strains of varieties were compared in a planting for late harvest in the 1958 trials. Four of the varieties, Burpee's Giant Pascal, Holmes Crisp, Holmes Emperor, and Gills Special Tall Utah were new to these trials and they were compared with varieties commonly grown in the area and with retrials of varieties from previous years. The results of the 1958 trials can be compared in Table 1.

CULTURAL INFORMATION

Seed sown: April 25, seedlings transplanted to greenhouse benches May 19, and plants field set June 18, 1958.

Fertilizer: 500 lbs/acre of 0-20-20. Side dressings of 100 lbs/acre of ammonium nitrate applied 2-3 weeks after field setting and a second application 3 weeks later.

Pesticides: Three applications of Tri-basic copper sulfate plus Phosdrin were applied at weekly intervals beginning the last week in July.

Spacing: Rows spaced 34" with plants 6" in the row, 42 plants per 23' plot, replicated six times.

Date of Harvest: First three replications September 23 and last three September 30.

SOURCES OF SEED

<u>Symbol</u>	<u>Source</u>
A1	Abbott and Cobb, Philadelphia 24, Pa.
B1	W. Atlee Burpee & Co., Philadelphia 32, Pa.
B2	D. V. Burreli Seed Growers, Rocky Ford, Colo.
F1	Ferry-Morse Seed Co., Detroit, 31, Michigan
G1	Gill Bros. Seed Co., Portland 16, Oregon
H1	Joseph Harris Co., Rochester 11, New York
H2	Holmes Seed Co., Canton 2, Ohio
K1	Kilgore Seed Co., Plant City, Fla.

GENERAL COMMENTS

Green Light performed very favorably in these trials with a marketable yield slightly greater than strains of Utah 52-70. It has a high petiole count and excellent heart development. Petioles are lighter green in color, finely ribbed and slender with good quality. Petiole length to first node is not as long as desired but overall length is good. NOTE: This is not the new taller strain of Green Light.

Pascal 137 which produced the highest yield of marketable stalks in the 1957 trials was again the highest yielding in these trials. However, even though it has an excellent flavor and texture with thick meaty petioles it did not appear promising in the 1958 plantings. The heart development of Pascal 137 was poor and overall petiole length was not as tall as desired, in addition the petioles flared excessively leaving an open, loose, unattractive trimmed stalk.

Holmes Crisp, Utah No. 15, and Utah Pascal A & C all had excellent heart development as did Green Cross.

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TABLE 1.
CELERY VARIETIES FOR LATE HARVEST; 1958
Celeryville, Ohio

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Variety and Lot Number	SOURCE	Average Large Stalk Wt. lbs.	Yield per Plot ¹			Petiole Count ² No.	Petiole Length ³ In.	Petiole Length Total ⁴ In.	Blight Rating ⁵ (0-10)	Trimming Loss %	Remarks
			Large Stalks lbs.	Small Stalks lbs.	Market-able lbs.						
11. Pascal 137	F ₁	1.6	56.2	3.0	59.2	7.0	8.8	13.8	8	37.5	Poor heart development. Petioles flare.
7. Green Light 522	H ₁	1.7	53.7	4.8	58.5	9.9	7.4	20.2	4	47.2	Exc. type, fine ribbed, best in trials.
16. Celery 52-70 377	A ₁	1.7	53.3	4.3	57.6	8.9	8.7	22.1	7	44.3	Typical 52-70
18. Tall Utah 52-70 22762	F ₁	1.6	47.0	6.5	53.5	8.9	9.4	22.1	9	49.3	Exc. Unif., Typical type.
17. Tall Utah 52-70H 20372	F ₁	1.6	48.2	5.2	53.4	8.1	9.3	22.4	10	47.1	Longer petiole to 1st node.
8. Utah 52-70 1544	H ₂	1.6	48.0	4.7	52.7	8.8	8.6	21.7	8	50.7	Exc. Unif., Typical Type
19. Utah No. 15 210-31	B ₂	1.5	45.3	4.5	50.3	9.6	8.3	21.0	5	48.0	Compact stalk, high petiole count.
10. Holmes Crisp 1543	H ₂	1.4	45.0	4.7	49.7	9.7	8.1	19.9	7	51.9	Fine ribbing, good unif. high petiole count
13. Utah No. 15 498	H ₁	1.5	44.0	5.5	49.5	8.7	7.3	20.1	3	50.0	Compact stalk, high petiole count.
20. Utah Pascal A&C 526	A ₁	1.5	43.5	5.8	49.3	9.5	7.8	20.1	7	49.7	Exc. heart development
3. Giant Pascal 6028	B ₁	1.6	43.5	5.4	48.9	7.5	10.2	23.8	8	52.1	Unif. variable long, wide petioles.
4. Improved Utah Jumbo 5026	G ₁	1.5	43.8	4.7	48.5	8.4	7.5	20.5	8	49.6	Typical of type.
12. Summer Pascal 259-19 20370	F ₁	1.4	40.2	7.2	47.4	6.4	8.3	17.3	3	45.9	Good Bl. resist. Short stalks
1. Kilgore's Green Florida Pascal G-117.1	K ₁	1.3	42.5	3.6	46.1	6.7	7.7	16.3	7	43.8	Slow germination, wide, fleshy petioles. Darker than regular pascal
5. Gill's Special Tall Utah 3194	G ₁	1.4	40.0	5.5	45.5	9.3	7.5	20.6	3	53.4	High petiole count, compact stalk.
15. Green Cross 16	A ₁	1.4	38.3	7.1	45.4	9.9	8.7	21.7	3	53.1	Long finely ribbed petioles, lighter color than Sum. Pascal.
9. Holmes Emperor 329	H ₂	1.3	41.2	2.8	44.0	6.4	8.2	17.5	6	49.1	Compact stalk, short petioles.
14. Improved Pascal 375	A ₁	1.3	38.3	5.4	43.7	6.5	7.1	17.3	5	46.4	Short thick petioles.
6. Summer Pascal (Walthan Improved) 525	H ₁	1.3	37.5	5.2	42.7	6.6	6.8	16.9	4	44.6	Compact stalks, typical.
2. Summer Pascal (Walthan Strain) E-115,2	K ₁	1.0	29.3	9.4	38.7	6.3	7.4	11.7	1	47.8	Very poor germination, weak plants Good blight resistance.
LSD at 5% Level			8.6								

¹Yield per plot of 23 feet. (To convert yields to 65 lb. crates per A. multiply by 10.3)

²Number of petioles 4" above butt.

³Length from butt to first node.

⁴Length from butt to tip node.

⁵Blight rating: 0-No blight, 10-heavy infection.