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CELERY CULTIVAR TRIALS - 1981

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Celeryville, Ohio

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Fifteen cultivars or promising breeding lines of celery were compared in replicated trials at the Muck Crops Branch in the 1981 season. Cultural information and tabular data summary are included in the following:

Cultural Information:

Seed was sown in flats in the greenhouse in early April, seedlings were transplanted into 080A Speedling flats, and the celery was transplanted into the field on June 4, 1981.

Eight hundred pounds of a 6-24-12 fertilizer were applied and disced in prior to planting. Side-dressing of ammonium nitrate (100 lb/A) was made twice during the second and fourth week after planting.

Randomized replicated plots consisted of paired rows spaced 34 inches, with 40 inches between the paired rows for equipment clearance. Plants were spaced 6.5 inches in the row, with 84 plants per 23-foot double-row plot and replicated four times for each cultivar.

Dyrene was applied at 7 to 10 day intervals for disease control. Parathion was used early in season and Dipel late in season for control of insects.

Celery was harvested on September 8, 1981. Total yield, stalk size, trim loss, length and number of petioles were included in Table 1.

Seed Sources:

We would like to acknowledge that each seed company donated the seed for these celery cultivar studies.

Harris Seed Co. - Clean Cut, Tall Green Light
Keystone Seed Co. - Grande, Golden Self Blanching
Ferry-Morse Seed Co. - Tall Utah 52-70 R Improved, Tall Utah 52-75, Transgreen, Tendercrisp, Florida 683, Surepak
Abbott & Cobb, Inc. - ACX 80281, Strain 2.13
Agway, Inc. - Tall Fordhook
Asgrow Seed Co. - Florigreen

Results:

Tall Green Light, Florida 683, Strain 2:13, and ACX 80281 were the four highest yielding varieties. Many of the other varieties also had excellent yields. The varieties with the longest first node length were Surepak and Tall Fordhook. The varieties with the tallest overall length were ACX 80281, Surepak, Tall Fordhook, Tall Green Light, and Tall Utah 52-70H.

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TABLE 1 - CELERY CULTIVARS - 1981

Rank & Variety	Average Yield/Plot-Marketable trimmed weight lb.	untrimmed weight lb.	trim loss %	Avg. stalk lb.	Petiole count 4" above butt no.	Petiole length butt to 1st node in.	Petiole overall length in.
1. Tall Green Light	137.6	225.6	39	1.9	13.1	8.7	18.2
2. Florida 683	132.5	199.9	34	1.9	10.1	8.3	17.3
3. Strain 2-13	131.5	205.5	36	1.8	10.7	9.1	17.1
4. ACX 80281	131.0	211.3	38	2.0	11.4	8.9	18.5
5. 52-70 R Improved	126.4	185.9	32	1.8	10.5	8.7	17.1
6. Tendercrisp	125.9	192.8	35	1.8	11.5	9.3	17.6
7. Clean Cut	125.4	195.8	36	1.7	10.6	8.8	17.2
8. 52-70H	122.0	190.7	36	1.7	10.2	8.8	18.0
9. Transgreen	110.9	185.7	40	1.7	10.9	9.1	17.2
10. Grande	110.2	174.9	37	1.5	9.9	9.3	17.0
11. Tall Utah 52-75	109.6	179.7	39	1.5	10.2	8.3	15.4
12. Surepak	108.8	204.1	47	1.5	10.8	10.7	18.2
13. Florigreen	97.3	152.8	36	1.3	8.9	9.4	17.7
14. Golden Self Blanching	92.6	159.6	42	1.4	13.2	8.9	17.4
15. Tall Fordhook	88.7	163.4	46	1.3	9.8	10.4	18.2

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