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CELERY CULTIVAR TRIALS - 1976 & 1977

MUCK CROPS BRANCH

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CELERYVILLE, OHIO

C200  
P180

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## CELERY CULTIVAR TRIALS 1976-1977

Muck Crops Branch  
Celeryville, Ohio

Edward Postema<sup>1</sup> and E. K. Alban<sup>2</sup>

Ten cultivars or promising breeding lines of celery were compared in replicated trials (six) at the Muck Crops Branch in the 1976 and 1977 seasons. Cultural information and tabular data summary are included in the following:

### Cultural Information:

In the 1976 season, seed was sown in flats in the greenhouse, April 2, seedlings were transplanted to greenhouse benches April 21 and 22, and the celery was transplanted (mechanically) into the field on May 17, 1976. In the 1977 season, the same procedure was used and date of seeding was April 1; transplanting to benches April 21-22; and the celery into the field on May 20, 1977.

Nine hundred pounds of 0-25-25 fertilizer were applied and disced in prior to planting each year. Side-dressing of ammonium nitrate (100 lb/A) was made during the 2nd and 4th week after field transplanting in each year.

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 41 plants per 23-foot plot, and replicated six times for each cultivar. Plot layout was the same for each season.

Dyrene was applied approximately every seven days for control of diseases. Malathion and Dipel were applied alternately at weekly intervals for insect control. The same treatments were used in both years 1976-1977.

Rainfall was generally adequate in both the 76 and 77 seasons. However, overhead irrigation was available and used as needed in both seasons.

Harvesting and recording of data were accomplished during the period August 16-19, in 1976, and August 8-12 in 1977. Total yield, stalk size, trim loss, length and number of petioles are included in Table 1 for 1976, and Table 2 for 1977.

### Seed Sources:

The following include abbreviations used in Tables 1 and 2, as well as the seed companies involved. We would like to acknowledge that each seed company donated the seed for these celery cultivar studies.

K1 Keystone Seed Co.

FM3 Ferry Morse Seed Co.

FC2 Food Machinery Corp.

H4 Harris Seed Co.

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TABLE 1. CELERY CULTIVARS - 1976

Rank	Variety & Source		Average Yield per Plot - Marketable				Petiole Count 4" Above Butt number	Petiole Length Butt to 1st Node inches	Petiole Overall Length inches	
			Percent Marketable %	Trimmed Weight lb	Un-trimmed Weight lb	Trim Ave. Loss Stalk %				Ave. lb
1.	370 Tall Green Light	H4	91	93.0	142.0	35	2.4	12.8	9.1	28.6
2.	Clean Cut	H4	89	92.5	134.0	31	2.4	10.6	9.3	28.2
3.	Florida 683 K Imp.	K1	93	90.9	128.2	29	2.3	10.2	10.1	28.3
4.	3036	FM3	94	90.1	135.9	34	2.3	9.4	9.7	29.0
5.	Florida -2-15	K1	94	89.8	137.8	35	2.3	10.8	9.3	28.0
6.	Florida 683	FM3	94	87.2	135.9	36	2.2	9.5	9.7	28.6
7.	Calmario	FC2	94	86.1	127.8	33	2.2	9.9	9.9	28.2
8.	52-70 R. Imp. 2-14	K1	94	85.0	122.8	31	2.3	10.2	9.5	28.4
9.	Florida 683	K1	92	84.2	124.0	32	2.2	9.9	9.4	27.5
10.	52-70 R. Imp.	FM3	94	79.5	124.6	36	2.0	10.4	9.9	28.2

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TABLE 2. CELERY CULTIVARS - 1977

Rank	Variety & Source		Average Yield per Plot - Marketable				Petiole Count 4" Above Butt Number	Petiole Length Butt to 1st Node inches	Petiole Overall Length inches
			Percent Marketable %	Trimmed Weight lb	Un-trimmed Weight lb	Trim Ave. Loss Stalk % lb			
1.	52-70 Imp. R-214	K1	92	87.0	127.8	32 2.4	8.2	11.1	28.6
2.	52-70 R. Imp.	FM3	91	84.2	120.1	30 2.2	8.4	10.6	28.9
3.	Calmario	FC2	92	81.7	127.4	36 2.1	8.7	9.5	27.9
4.	Florida 683	FM3	87	81.4	126.5	37 2.1	8.9	10.0	28.3
5.	Florida 683 K Imp.	K1	89	79.4	112.2	29 2.1	8.7	9.9	28.8
6.	Florida 683	K1	91	78.9	124.3	37 2.0	8.7	9.7	28.0
7.	Clean Cut	H4	90	76.4	112.8	32 2.0	7.8	10.8	29.5
8.	Florida 2-15	K1	92	76.3	93.3	18 2.0	8.2	10.7	29.2
9.	Celery 3036	FM3	89	73.1	109.6	33 1.9	8.4	9.9	28.7
10.	Tall Green Light	H4	89	71.5	119.6	40 1.9	9.0	9.7	29.1

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