

Celery

- Cool (60-70°F)
 Long season (~150 days)
- Largest US producers
 - California (25k acres, \$256m)
 - Florida (8k acres, \$40m)
- One of Hawaii top imported crops



| NAME | RESISTANCES | SUPPLIER |
|------------------------------|---|-------------------------|
| Calypso | Fusarium wilt | High Mowing Seeds |
| Command (Organic) | Fusarium yellow | Osborne Seed Company |
| Conquistador | Bolting (tolerant) | Johnny's Seeds |
| Kelvin F1 (Organic) | | Osborne Seed Company |
| Merengo F1 | Fusarium yellows | High Mowing Seeds |
| Tall Utah | Rust | High Mowing Seeds |
| Tall Utah 52-70R Improved | West celery mosaic, Bolting, Fusarium | Harris Seeds |
| Tango (Organic) | | Harris Seeds |
| TZ 6200 (Organic) | Fusarium | Osborne Seed Company |

Planting, Harvesting

- 4 double-row plots (14" apart, 40" between centers)
- •12 plants per row (10" apart)
- •1' between plots inline

•Seeded: 1-11

Transplanted: 4-11 (90 days)

Harvested: 7-18 (188 days)

| NAME | RESISTANCES | SUPPLIER |
|------------------------------|---|-------------------------|
| Calypso | Fusarium wilt | High Mowing Seeds |
| Command (Organic) | Fusarium yellow | Osborne Seed Company |
| Conquistador | Bolting (tolerant) | Johnny's Seeds |
| Kelvin F1 (Organic) | | Osborne Seed Company |
| Merengo F1 | Fusarium yellows | High Mowing Seeds |
| Tall Utah | Rust | High Mowing Seeds |
| Tall Utah 52-70R Improved | West celery mosaic, Bolting, Fusarium | Harris Seeds |
| Tango (Organic) | | Harris Seeds |
| TZ 6200 (Organic) | Fusarium | Osborne Seed Company |

Fertilizer, Irrigation, Weeds

• Soil pH= 6.6

Requires per acre per crop

N: 250 lbs

P: 50-100 lbs

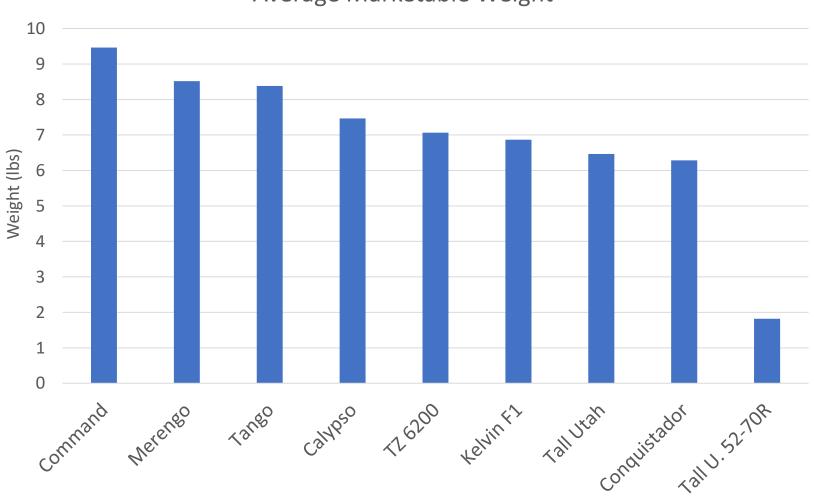
K: 400 lbs

Ca: 5 lbs

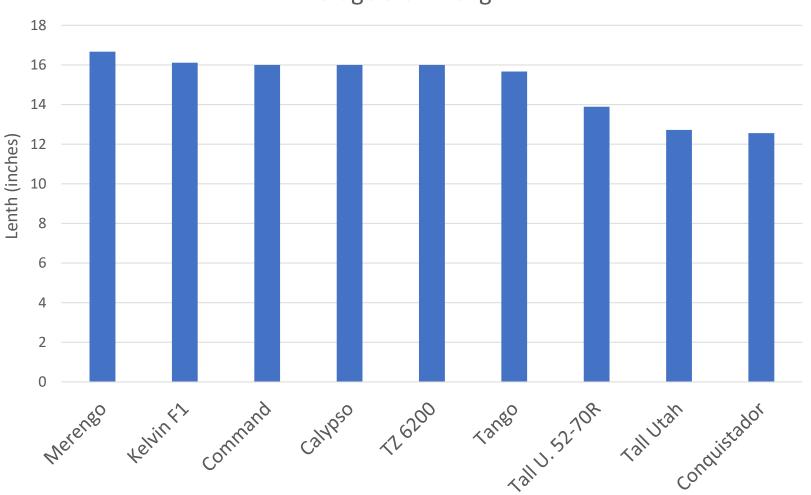
B: 1 lb

 Requires total 2 acre-feet water (650,000 gallons), more towards harvest

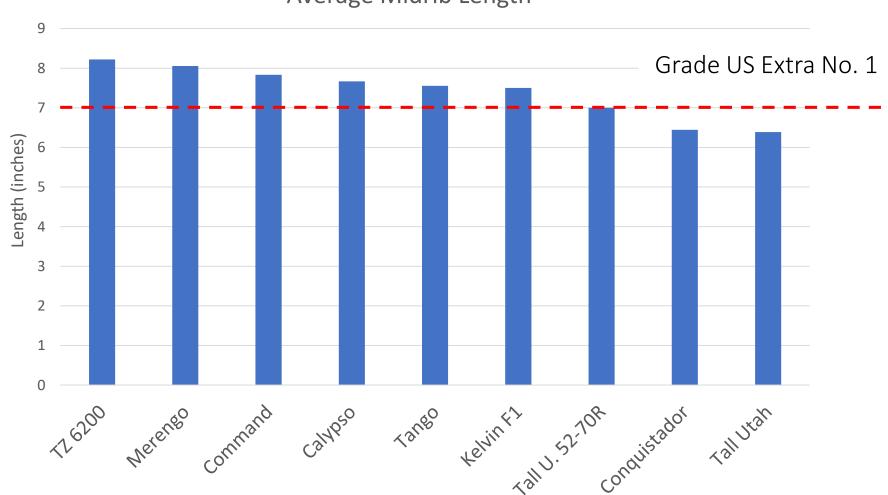
Average Marketable Weight

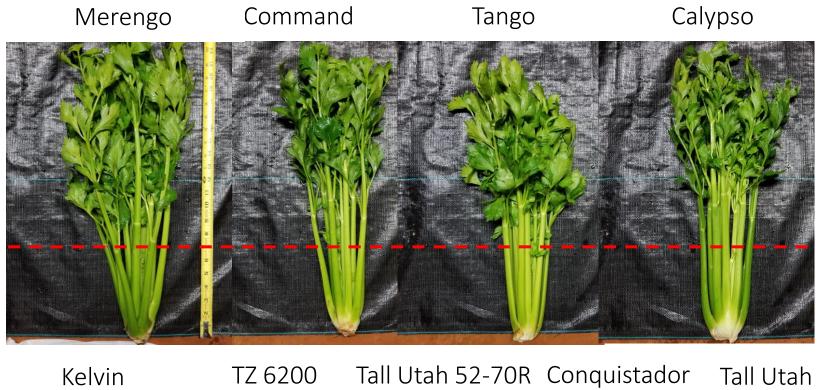


Average Stalk Length



Average Midrib Length







Economic Feasibility (Preliminary)

Revenue= \$50,920 per acre

• Average 14lbs per 16 sqft. \rightarrow 38,000 lbs per acre @ \$1.34 per pound \rightarrow \$50,920 per acre

Costs = \$22, 432 per acre

- Seeds: $25k @ $205 \rightarrow 48$ plants per 40 sq. ft. $\rightarrow 52,272$ plants per acre \rightarrow \$430 per acre
- Fertilizer: \$1853 per acre

- (May be different with different fertilizer regime)

 Urea: 0.5 lbs → 16 lbs per acre@ \$25 per 50#→ \$8 per acre

 TSP: 0.5 lbs → 16 lbs per acre @ \$33 per 50#→ \$11 per acre

 Potash: 1 lbs → 31 lbs per acre @ \$25 per 50# → \$16 per acre

 CaNO3: 2 lbs → 62 lbs per acre @ \$21 per 50# → \$26 per acre

 Triple 19: 45 lbs → 1,400 lbs per acre @ \$51.20 per 40# →\$1792 per acre

 Water: \$1.89 per 1000 gallons → 778,000 gallons per acre → \$1470 per acre

 Weed (GoalTender): \$466.68 per 2.5 gal → 0.5 pints/acre → \$11.67 per acre

 Labor: 2 hours per week per 1400 sq.ft. @ \$20 per hour @ 15 weeks → \$18,668 per acre
 - (May be different with mechanization, scale)

Highest Rated

Flavor= Kelvin, Calypso, Tango

<u>Crunch</u>=Calypso, TZ6200, Merengo

Less Stringy=Calypso, TZ6200

Color= Tall Utah

Size = Merengo, Tango

Taste Test



 Four varieties with size, quality potential (Merengo, Tango, Command, Calypso)

 Rich aroma more suited to restaurants/chefs

Questions?

