

Mango Cultivars with Potential for Commercial Development

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EXPLORING, EXPLAINING AND CONSERVING THE WORLD OF TROPICAL PLANTS

FAIRCHILD TROPICAL BOTANIC GARDEN

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As an industry we must adapt: New cultivars, niches, products and markets



Current situation in chain stores:

Must have: heavy marketing volume (2 million boxes?), extended availability, storage, production volume and food safety

Exclusive cultivars?

Flavor?

Color?

Origin?



Tommy Atkins: Florida (1948), 550 g, red



Ataulfo: Mexico (1970s), 280 g, yellow



Kent: Florida (1945), 650 g, red



Keitt: Florida (1939), 850 g, green/pink



Madame Francis: Haiti (year?), 450 g, yellow



Established and new niches

Large volume



Haden: Florida (1910), 550 g, red



Nam Doc Mai: Thailand, 450 g, yellow



Osteen: Florida (1940), 600g, red



Carabao: Philippines, 340g, yellow



Edward: Florida (1930s), 550 g, yellow/orange



Newer and/or smaller markets



Alphonso: India



Kesar: India



Sundhri: Pakistan/India



Cogshall: Florida



Recommendations for future

Based on:

- * field observations around world**
- * limited trials in Florida and Mexico**
- * with bias towards commercial production**



Chain Store Scale

Possible cultivars



Kent



Rapoza: Hawaii



Mallika: India



Duncan



Myatrynat



Large Niche (1/2 to 1 million boxes)

Possible cultivars



Nam Doc Mai 4



Palmer



Kesar



Angie



Rosigold



Shwetintha



Product and Innovation cultivars



Brooks (juice)



Panchadarakalasa (juice)



Z 34-24 (dried)



Kheio Savoy (green mango)



Laleejewo (*M. lalijiwo*)

Green mango



So what can we do now?

- Trials in major production regions
- Set benchmarks for color, shape, etc.
- Direct the market as an industry
- Select for grower survival
- Begin long term breeding projects
- Breed with food safety and chemical usage in mind
- Follow model of stone fruit industry



Wild Mangos in
our future?





Interspecific hybrids?





