

# Fruit Tree Paradise

33<sup>rd</sup> Green Thumb Festival

St. Petersburg, FL

April 28, 2019

# Some Bad News

- Citrus is wonderful fruit, but these days it is one of the more difficult kinds of fruit to grow, due to so many pests and diseases.
- In particular, “citrus greening” is an incurable bacterial disease spread by a certain kind of Asian fruit fly. It's nearly unavoidable in Florida.
- If you have an established citrus tree, it's worth keeping it going as long as it will give good fruit. Use both soil fertilizer and foliar spray fertilizer (e. g. liquid kelp).
- Tangerines, tangelos, and oranges are difficult, and grapefruit is the most difficult. If you have limited space, then I recommend leaving them to the professionals, and devoting your resources to some of the many wonderful “rare” fruits that work well here.
- There is a new orange variety, Sugar Belle, that is supposed to be greening-resistant.
- Lemons seem more disease resistant and sometimes do fairly well. Still worth a try.

# The Good News

The southwest coast of Florida  
is the best place in the world  
to grow fruit.

--- Steve Cucura, Owner of Fruitscapes  
Nursery on Pine Island

# Why?

- Subtropical climate with wet summers – supports a wide variety of fruit species
- Subtropical climate with cool winters – many tropical pests cannot survive here
- Sandy soil
- Government and academic extension services
- Government services fight importation of pests
- Local markets for tropical fruit
- *Active fruit tree clubs supporting home growers, as well as other non-profit organizations supporting local food and urban gardening.*

# Grafted Trees



# Grafted Trees

For most species, you will want to spend the \$35 or \$40 to obtain a grafted tree of a named variety:

1. An exact genetic copy of the scion tree, which has been selected to have desirable characteristics, such as high-quality fruit, small tree size, disease resistance, or adaptability to our climate.
2. Hormonally it is a mature tree, and will produce fruit as soon as it is physically large enough. With a seedling tree, you might have a ten-year wait for some species.
3. It's easier to prevent a grafted tree from growing upward--- it's actually a big branch that wants to spread, not a tree that wants to rush upward to compete for light.

# My Horticultural Philosophy

***Problems in fruit tree horticulture stem mostly from two causes:***

***1. bad ecologies***

***2. bad root systems***

***A fruit tree is an adaptive system with enormous imbedded intelligence, and will thrive in a rich ecology reasonably close to its native ecology. As long as it has a good root system.***

# Fruit Tree Horticulture In Six Words

***Prune aggressively,***

***mulch heavily,***

***fertilize conservatively.***

# Prune Aggressively

1. Control tree size.
2. Strengthen tree against wind, climbing animals, weight of fruit.
3. Open up the interior to light and air.
4. Increase the root-to-foliage ratio to promote new growth and provide energy for fruiting.

# Prune Aggressively To Limit Size



# Prune Aggressively To Limit Size



# Tip Prune to Promote Branching



# Tip Prune to Promote Branching



# Prune To Develop Good Branch Architecture





# Mulch Heavily and Fertilize Conservatively

1. The best fertilizer is MULCH. It breaks down slowly, adding nutrients while building the soil ecology to improve plant health and disease resistance. Also, it stabilizes soil temperature and moisture, prevents erosion, suppresses weeds, and interrupts the life cycles of some insect pests.
2. Minimize nitrogen except perhaps on immature trees, and on bananas. Some mango experts recommend no nitrogen fertilizer on mature trees.
3. Among our favorite soil amendments: organic fertilizer, azomite, and gypsum. Gypsum supplies calcium without alkalinizing the soil.
4. An occasional foliar application of liquid kelp seems to work wonders.

# Free mulch from the local tree pruners



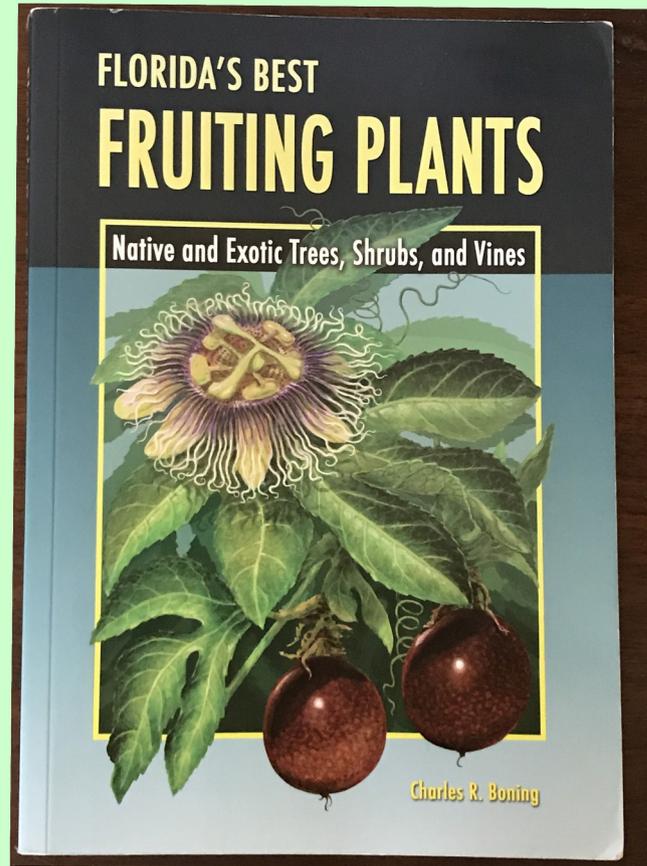
# Other Advice

1. Unless you are a very devoted grower, avoid species that have drawbacks: temperamental fruiters (lychees, annonas), poorly-adapted temperate-climate or dry-climate fruits (stone fruits, pomegranates, pears, apples), pest and disease-prone species (citrus, guava, peaches), freeze-intolerant species (jakfruit, coconuts, soursop, ...). Good choices include: mango (Alex Salazar's preferred list of bulletproof mangos: Florigon, Pickering (dwarf), Glenn, Maha Chanok, Duncan, Neelam), loquat, longan, starfruit, sapodilla, canistel, avocado, white sapote, black sapote, jaboticaba, mulberry.
2. Remove fruit from young grafted trees, so they can spend their energy growing, not making a few fruit.
3. Plant on mounds ----->
4. Free and perhaps prune the roots when you plant.
5. Consider thinning fruit from mature trees, especially stone fruit, loquats, longans, star fruit, wax jambu.
6. Invest in automatic irrigation if you possibly can.



# Learn The Easy Way

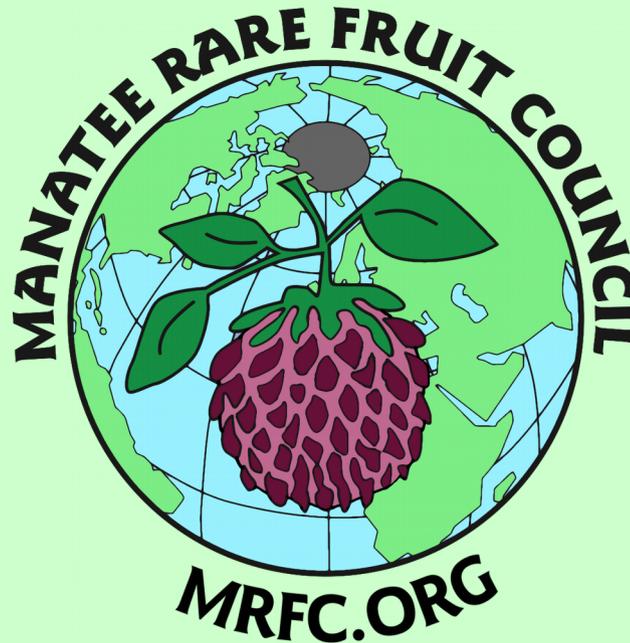
- The best first book: *Florida's Best Fruiting Plants*, by Charles Boning (but the information on varieties is generally out of date)



# Learn The Easy Way

Our area has excellent local fruit tree clubs:

- Tampa Bay Rare Fruit Council
- Manatee Rare Fruit Council
- Tropical Fruit Society of Sarasota
- Suncoast Tropical Fruit and Vegetable Club (Nokomis)



# Learn The Easy Way

My 3-hour introductory class, the Fruit Tree Paradise Workshop, is taught in spring and in fall – **the handouts for the class are free downloads from my website:**

**[sweetsonggroves.com](http://sweetsonggroves.com) .**

Also, there are free monthly tours during the cool season.



# Online Information Sources

- YouTube videos – some are excellent, and some...
- Tropical Fruit Forum – a discussion board
- [growables.org](http://growables.org) – lots of good information specific to our region)
- UF/IFAS publications – can be very informative, but are sometimes oriented toward commercial growers
- *Fruits of Warm Climates*, by Julia Morton, freely available online – an older reference but an excellent source for rare, tropical species
- It's a good idea to include the word “Florida” when you do a web search

