

Florida-Friendly Landscaping[™] PROGRAM

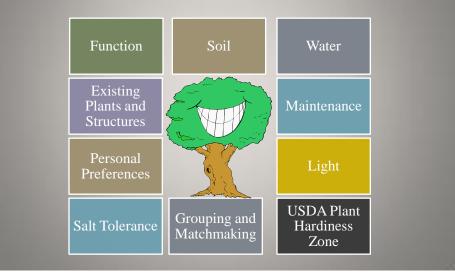
Florida-Friendly[™] Principles

- 1. Right Plant, Right Place
- 2. Water Efficiently
- 3. Fertilize Appropriately
- 4. Mulch
- 5. Attract Wildlife
- 6. Manage Yard Pests Responsibly
- 7. Recycle Yard Waste
- 8. Reduce Stormwater Runoff
- 9. Protect the Waterfront





Planning - Right Plant, Right Place



Keys to Success in Sustainable Food Gardening

- Good Soil!
- Water (soil only) in the morning
- Select appropriate plants
- Attract beneficial insects
- Plan to accept some losses
- Diversify
- Have fun!!



Soil Preparation

- Till / Double Dig to Loosen Soil
 - Allow tender new roots to establish
 - Provide oxygen
 - Ensure water percolation
 - No till method
- Introduce organic matter



Soil types

- Commercial garden soil
- Amended existing soil (compost, wood shavings, manures)
- Homemade mixtures (Sand + perlite or vermiculite)



Mustard Greens, planted from seed, 4 days

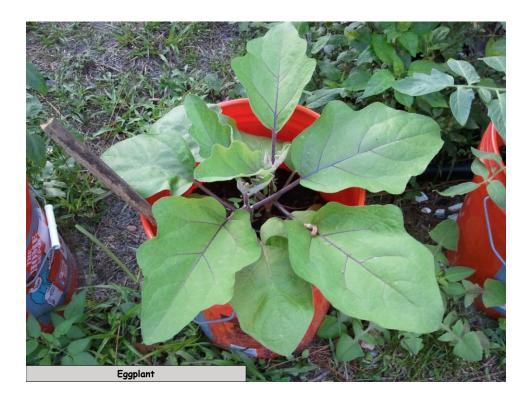
Container Options

- Raised beds wood, brick, concrete
- Buckets
- Recycled finds
- 6" soil depth minimum
- Provide adequate drainage















Staking

Reasons to Stake •

- Support
- Direct
- Maximize space
- Plants to Stake
 - Tomatoes
 - Peppers
 - Eggplant
 - Beans
 - Cucumbers
 - Squash



Harvest

- Life stages: Sprout, Micro Green, Baby Green, Completion/Full Size
- When to harvest is based on personal tastes, however some things require full amount of time to acquire best flavor and sweetness.
 - Early harvest: Tomatoes
- Micro Green: - Amaryllidaceae
- Leafy greens Onions
- - Radishes Carrots
- Cruciferae - Umbelliferae
- Remember to clean thoroughly •
- Best to harvest in the morning? •
- Harvest as needed for best flavor •



Water

- Vegetables cannot tolerate standing water
- Water ROOT ZONE in the morning $\frac{1}{2}$ " – 3/3"
- Feel moisture level not just surface, BEFORE watering
 - Observe plant's posture and coloring
 - Yellow has multiple meanings



	Soil Te	sting	
			SL 136 Page 1 of 2
UF FLC	tension Exter	x 110740 / Wallace Building 631, UF SOILSLAB@IFAS.UFLEDU WEBS	
Mailing Address (ple		Lab Only Tests Samples	from the State of Florida.
Name	Phone -		Direct any questions
City	FL Zip		regarding this test or the interpretation of the results to your county Extension
Date	E-Mail *		Agent.
NOTE: * Consult an e * These samp * Commercial	porting of results; please provide an e-ma kpert to determine if plant growth problem es will NOT be tested for nematodes, dise producers should use the Producers Soil 1 from your landeeeer or garden. See the instru	s require soil testing. ease organisms or chemicals Test Information Sheet, SL-13	
	Test A or B, but not both, for any sample.		
Test A. The pH and Lim information. • Soil pH • Lime Requirem	e Requirement Test will give you the following ent	Test B. The Soil Fertility Test v Soil pH Lime Requirement	vill give you these 6 analyses • P • Ca • K • Mg
Test A is especially for yo 1) use only complete ferti 2) follow the generic fertil vegetable garden pub	izers (such as 16-4-8), zer recommendations in IFAS landscape and	on existing soil fertility status. He	our use of single-element fertilizers tassed owever, if you use a consistent fertilizer, s for entrectable P, K, Mg, and Ca are of

pН

- Best pH for vegetables: between 5.8 and 6.3
- Only adjust if pH is:
 - Below 5.5 → dolomitic limestone may be used at 2-3 lbs. per 100 square feet
 - Above 7.0 → acidic organic matter may be used to temporarily lower pH
- Containerized soilless mixes dolomitic limestone

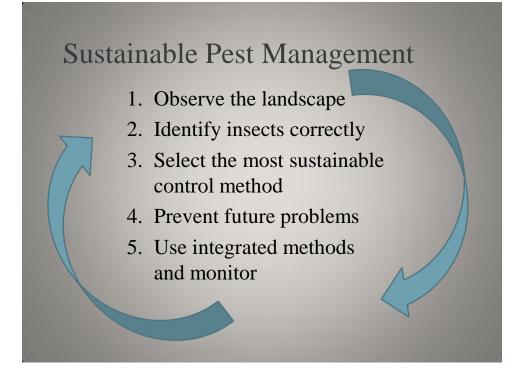


Fertilizer						
• Synthetic fertilizer may be needed if	Soil	Fertilizer Makeup	lb./100 sq. ft.	10 ft/ row, banded oz.		
 you are not adding lots of organic matter Soil test, especially 	Sand, rock, clay, marl	4-2-4 6-6-6 8-10-10 9-0-9	4 3 2 2	6 5 4 4		
to determine whether Phosphorus is needed	Organic muck, peat, amended	0-12-20	1-2	2		

Composting

- Hot composting or worm composting
- Provides nutrients and organic matter to plants
- Improves your soil
- Recycles yard and food wastes naturally
- Reduces what goes into your garbage (20%)





Identify Insects Correctly

- Spider Mites
- Mealybugs
- Scale •
- Aphids •
- Leaf Loopers
- Whiteflies •
- Weevils











Sustainable Pest Management: Biological Control

- Uses the insect's natural enemies
- Predators & parasitoids
 - Beneficial nematodes
 - Beneficial Wasps
 - Ladybugs
 - Green Lacewings
 - Beneficial Mites
 - Predator Scents











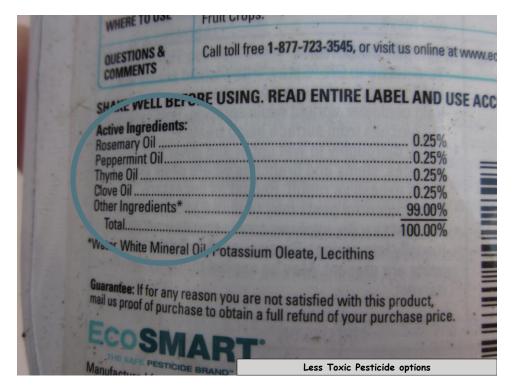
Sustainable Pest Management: Insecticides

- Chemical
- **Botanical**
 - Neem, Pyrethrum, Rotenone, Sesame, Sabadilla, Limenene & Linalool, Nicotine
 - Microbial Spinosid, Bt: Bacillus thuringiensis,
 - Diatomaceous earth Mineral
 - Bordeaux Mixture, Sulfur, Lime Sulfur
- **Natural Solutions** Horticultural Oils. Insecticidal Soap



JRPOSE

ALL



Scouting

- Daily visits to the garden are necessary
- Look for plant posture, signs of disease and insect
- Where are the insects eating?
 - Reproductively and new growth
 - Old and dying leaves
- "The best fertilizer for the garden is the gardener's shadow"



Easy Vegetables for South Florida

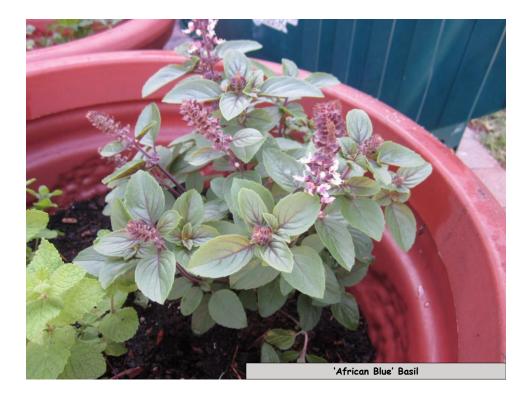
Fall, Winter, Spring					
Beans- (bush or pole)	Beets*	Broccoli	Cabbage*		
Carrots	Chinese Cabbage	Chives	Collard Greens		
Cucumbers	Eggplant	Escarole	Gourds		
Kale	Leaf Lettuce	Melons	Mustard Greens		
Adapted from the Florida Vegetable Gardening Guide and Growing Vegetables in Soc Salt Tolerant					



Easy Vegetables for South Florida					
	Fall, Wint	ter, Spring			
Okra	Onions (bulbs)	Onions (green or spring)	Peas		
Peppers (bell)	Peppers (hot)	Radish	Spinach*		
Squash*	Sweet potato (including boniato)	Tomato* (cherry, large, and plum) - VFN	Turnips		
Watermelon		Herbs			
Adapted from the <i>Florida Vegetable Gardening Guide</i> and <i>Growing Vegetables in Sout</i> <i>Salt Tolerant</i>					

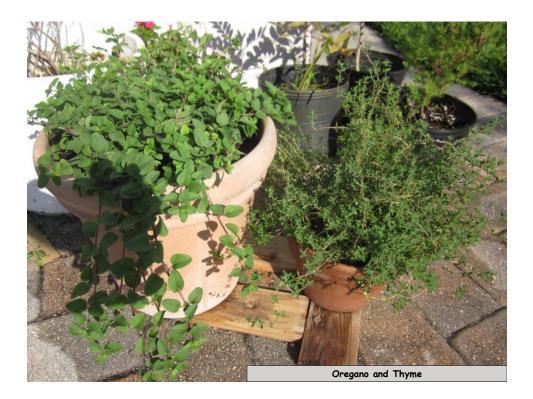
















Easy Vegetables for South Florida						
	Summer					
Bean (jack, lima, yard- long)	Calabaza	Cassava	Chayote			
Collard Greens	Eggplant	Ginger	Spinach (New Zealand or Malabar)			
Okra	Peas (Southern, black-eyed)	Peppers (hot)	Pigeon Peas			
Seminole Pumpkin	Sweet potato and boniato	Turnip Greens	Herbs (Rosemary &			
Salt Tolerant Adap	ted from the <i>Florida Vegetabl</i>	<i>e Gardening Guide</i> and <i>Growing</i>	Lemongrass) g Vegetables in South Florida			













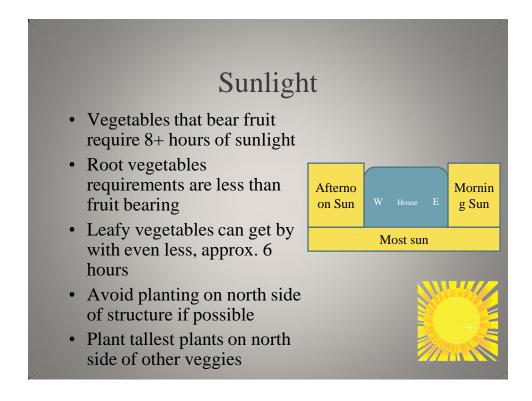


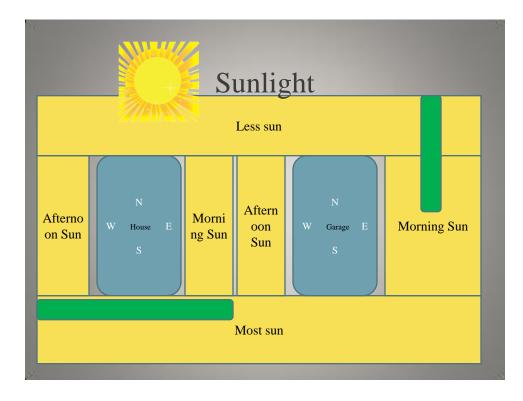






Difficult Vegetables for South Florida				
	Sum	imer		
Cucumbers	Melons	Peanuts	Squash	
	Fall, Wint	er, Spring		
Brussels sprouts	Cauliflower	Celery	Corn	
Garlic	Lettuce (head types)	Potato	Tomato (heirloom types)	
Adapted from the Florida Vegetable Gardening Guide and Growing Vegetables in Sol Florida Vegetable Gardening Guide and Growing Vegetables in Sol				







Tropical Fruit for the Home Landscape

Species	Size	Space required	Cold Tolerance	Harvest Season	Notes
Atemoya	Medium	20+ Feet	=32 (°F)</th <th>Aug. – Oct. and Dec. – Jan.</th> <th></th>	Aug. – Oct. and Dec. – Jan.	
Avocado	Large	25 – 30 Feet	26 – 30 (°F)	Late June - March	
Banana	Small	12 – 15 Feet	=28 (°F)</th <th>Year Round</th> <th></th>	Year Round	
Carambola	Medium	15 – 20 Feet	27 – 32 (°F)	July – Oct. and Nov. – Feb.	
Canistel	Large	23 – 30 Feet	26 – 32 (°F)	Nov March	Irregular harvest
Citrus	Small	12 – 15 Feet	Varies	Varies	
Dragon Fruit	Small - Vine	5 – 10 Feet	< 32 (°F)	June – Nov.	













Tropical Fruit for the Home
Landscape

Species	Size	Space required	Cold Tolerance	Harvest Season	Notes
Jaboticaba	Medium	15 - 20 Feet	$< / = 29 (\circ F)$	Year Round	
Jackfruit	Large	23 – 30 Feet	= 32 (°F)</th <th>Spring through fall</th> <th>Some Year Round</th>	Spring through fall	Some Year Round
Longan	Large	23 – 30 Feet	28-30 (°F)	July – early Aug.	
Lychee	Large	23 – 30 Feet	28-32 (°F)	June, early July	
Mamey Sapote	Large	23 – 30 Feet	28 – 32 (°F)	Jan. – Sept.	Some Year Round
Jaboticaba	Medium	15 – 20 Feet	$< / = 29 (\circ F)$	Year Round	
dapted from Tropical and Subtropical Fruit for the Home Landscape: Alternatives to Citrus					





Tropical Fruit for the Home Landscape

Species	Size	Space required	Cold Tolerance	Harvest Season	Notes
Mango	Large	23 - 30 Feet	28-30 (°F)	May-Oct.	
Papaya	Small	6 – 15 Feet	$< / = 30 (\circ F)$	Year Round	
Passionfruit	Small – Vine	12 – 20 Feet	= 32 (°F)</th <th>June – Dec.</th> <th></th>	June – Dec.	
Star Apple	Large	23 - 30 Feet	29 - 31 (°F)	Feb. – June	
Sugar Apple	Small	15 – 20 Feet	28 – 32 (°F)	July – Sept. and Nov. – Jan.	
Tamarind	Large	25 – 30 Feet	28 – 32 (°F)	April - June	

Not recommended: Guava and Sapodillo

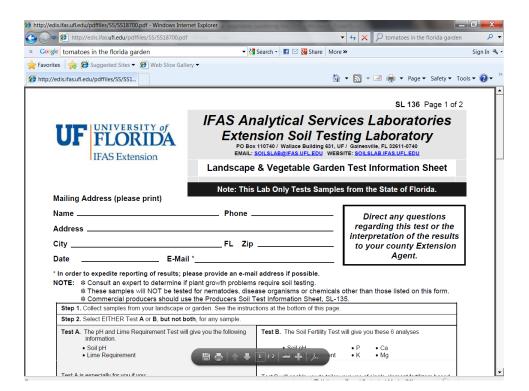
Adapted from Tropical and Subtropical Fruit for the Home Landscape: Alternatives to Citrus











Resources UF / IFAS Palm Beach County Extension: pbcgov.com/coe2...nsion EDIS: edis.ifas.ufl.edu **Extension Soil Testing Laboratory:** http://edis.ifas.ufl.edu/pdffiles/SS/SS18700.pdf Florida Vegetable Gardening Guide: http://edis.ifas.ufl.edu/vh021 Growing Vegetables in South Florida: http://miamidade.ifas.ufl.edu/pdfs/urban_hort/Easy%20to%20grow%20vegetables.pdf **Tropical and Subtropical Fruit Crops for the Home Landscape:** Alternatives to Citrus: https://edis.ifas.ufl.edu/mg373 **Producing Garden Vegetables with Organic Soil Amendments:** http://edis.ifas.ufl.edu/mg323 Natural Products for Insect Pest Management: http://edis.ifas.ufl.edu/in197 Tomatoes in the Florida Garden: http://edis.ifas.ufl.edu/vh028 **Minigardening (Growing Vegetables in Containers):** http://edis.ifas.ufl.edu/vh032



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