

Garbarino Food Forest

Hernando county, Florida

May 15, 2012

13,000 sqft

low pH, fast draining, low fertility sand

Perennials and self-seeding annuals: approx 216 plants planted so far.

USDA Hardiness Zone 9A

hot dry spring, wet summer, mild winter

Approx 460 more plants are planned. 55 pre-existing natives included in the design, plus native grasses and herbs.

Implementation began March 14, 2012

80 total species of plants

21 tree species

12 shrub species

27 herbs & leaves species

8 ground cover species

6 root species

6 vine species

Permaculture design features include the use of drought tolerant plants, 22 native pre-existing species, use of native early succession plants for soil building, hugelkultur beds, terracing, use of guild plants for nutrient accumulation, mulching, insectary, grass suppressing bulbs, minimal outside inputs, 7 forest layers, all plants are perennial or self-seeding annuals, microclimates, wildlife cover, avoidance of competition above and below ground, no-till, sheet mulching, tree spacing for long-term productivity, function stacking, pH compatibility, and moisture compatibility.

<u>qty</u>	<u>common name</u>	<u>aka or notes</u>	<u>scientific name</u>	<u>primary functions</u>	<u>other functions</u>	<u>water</u>	<u>sun</u>	<u>pH</u>	<u>root</u>
5	TALL TREES	2 planted, 2 more planned, 1 pre-existing native							
1	pecan, Gloria Grande		<i>Carya illinoensis</i>	nuts	shade, mulch, nutrient accum	med	full	med	tap
1	pecan, Desirable		<i>Carya illinoensis</i>	nuts	shade, mulch, nutrient accum	med	full	med	tap
0	chestnut, Dunstan	(2 planned)	<i>Castanea dentata</i>	nuts	shade, mulch, nutrient accum	med	full	low	tap
1	long leaf pine	pre-existing native	<i>Pinus palustris</i>	shade, mulch	nutrient accumulator	low	full	low	tap
64	LOW TREES	23 planted, 18 more planned, 35 pre-existing natives (12 to be culled)							
4	red mulberry, Cedar Key		<i>Morus rubra</i>	fruit	mulch, shade, insectary	low	full	med	tap
1	apple, Anna		<i>Malus domestica</i>	fruit	mulch, shade	med	full	med	shallow
1	apple, Golden Dorsett		<i>Malus domestica</i>	fruit	mulch, shade	med	full	med	shallow
1	Japanese persimmon, Fuyu	non-astringent	<i>Diospyros kaki</i>	fruit	mulch, shade	med	full	med	tap
1	orange, Valencia	(1 more planned)	<i>Citrus sinensis</i>	fruit	shade, insectary plant	high	full	any	shallow

1	mandarin, Ponkan		<i>Citrus reticulata</i>	fruit	shade, insectary plant	high	full	any	shallow
1	mandarin, Satsuma		<i>Citrus reticulata</i>	fruit	shade, insectary plant	high	full	any	shallow
2	avocado	Mexican	<i>Persea americana</i>	fruit	shade	med	full	any	shallow
2	fig , Brown Turkey		<i>Ficus carica</i>	fruit	shade, mulch, insectary	med	full	any	shallow
1	fig, Celeste		<i>Ficus carica</i>	fruit	shade, mulch, insectary	med	full	any	shallow
1	fig, Green ischia		<i>Ficus carica</i>	fruit	shade, mulch, insectary	med	full	any	shallow
2	pineapple guava	feijoa	<i>Feijoa sellowiana</i>	fruit	mulch	med	part	any	shallow
0	kumquat, Meiwa	(3 trees planned)	<i>Fortunella margarita</i>	fruit	shade	med	full	any	shallow
2	loquat		<i>Eriobotrya japonica</i>	fruit	shade	med	full	any	shallow
1	peach		<i>Prunus persica</i>	fruit	shade, mulch, insectary	med	full	med	shallow
1	jujube, Chinese, Li	(2 more planned)	<i>Ziziphus jujuba</i>	fruit	shade, mulch	low	full	any	tap
1	jujube, Chinese, Lang	(1 more planned)	<i>Ziziphus jujuba</i>	fruit	shade, mulch	low	full	any	tap
0	sassafras	(1 tree planned)	<i>Sassafras albidum</i>	edible leaves	wildlife food	med	part	med	shallow
6	turkey oak	pre-existing native	<i>Quercus laevis</i>	nurse plant, shade, mulch	wildlife food (acorns)	low	full	low	tap
1	sand post oak	pre-existing native	<i>Quercus margaretta</i>	nurse plant, shade, mulch	wildlife food (acorns)	low	full	low	tap
4	sand live oak	pre-existing native	<i>Quercus geminata</i>	shade, mulch	wildlife food (acorns)	low	full	low	tap
10	bigflower pawpaw, aka flag, scrub	pre-ex native (10 more planned)	<i>Asimina obovata</i>	fruit	wildlife food	low	part	low	tap
14	American persimmon	pre-existing native	<i>Diospyros virginiana</i>	nutrient accum, mulch, shade	nurse plant, wildlife food	low	full	low	tap

83	SHRUBS	50 planted, 20 more planned, 13 pre-existing natives							
5	blackberry, Natchez	thornless	<i>Rubus fruticosus</i>	berries	erosion control	med	any	low	shallow
1	blueberry, Emerald	So. highbush	<i>Vaccinium</i>	berries	erosion control	high	full	low	shallow
1	blueberry, Sharp Blue	So. highbush	<i>Vaccinium</i>	berries	erosion control	high	full	low	shallow
1	blueberry, unknown variety	So. highbush	<i>Vaccinium</i>	berries	erosion control	high	full	low	shallow
2	blueberry, Gulf Coast	So. highbush	<i>Vaccinium</i>	berries	erosion control	high	full	low	shallow
2	blueberry, Misty	So. highbush	<i>Vaccinium</i>	berries	erosion control	high	full	low	shallow
1	rosemary		<i>Rosmarinus officinalis</i>	edible leaves		low	full	low	shallow
1	pomegranate, Wonderful		<i>Punica granatum</i>	fruit		low	full	any	shallow
29	pigeon pea	gandules	<i>Cajanus cajan</i>	edible beans, nurse plant	perennial nitrogen fixer	low	full	any	tap
6	true roselle	cranberry hibiscus	<i>Hibiscus sabdariffa</i>	edible leaves	ornamental	low	part	any	tap
0	false roselle	cranberry hibiscus	<i>Hibiscus acetosella</i>	edible leaves	ornamental	low	part	any	tap
1	Bolivian sunflower	marigold tree	<i>Tithonia diversifolia</i>	mulch, insectary	garden stakes	med	full	low	tap
3	prickly pear aka nopales	pre-existing native	<i>Opuntia ficus-indica</i>	fruit	edible pads, insectary	low	any	any	shallow
2	saw palmetto aka cabbage palm	pre-existing native	<i>Serenoa repens</i>	wildlife cover	edible berries & heart	low	any	low	shallow
7	yucca aka Adam's needle	pre-existing native	<i>Yucca filamentosa</i>	insectary	edible fruit	low	any	low	both
1	evergreen magnolia bush	pre-existing native	<i>Magnolia</i>	shade, fragrant flowers	insectary plant, nurse plant	med	full	low	shallow
>500	HERBS & LEAVES	93 planted, 200 more planned, many pre-existing natives							
1	bee balm	Oswego tea	<i>Monarda didyma</i>	insectary plant, edible florets		med	part	med	shallow

1	marjoram, sweet		<i>Origanum majorana</i>	edible leaves	ground cover	med	part	low	shallow
1	oregano	greek	<i>Origanum vulgare</i>	edible leaves	ground cover	low	full	med	shallow
1	thyme, lemon		<i>Thymus</i>	edible leaves	ground cover, insectary	med	full	low	shallow
1	apple mint		<i>Mentha</i>	edible leaves	ground cover, nutrient accum	low	full	med	shallow
1	spearmint		<i>Mentha</i>	edible leaves	ground cover, nutrient accum	med	part	med	shallow
1	peppermint		<i>Mentha piperita</i>	edible leaves	ground cover, nutrient accum	low	full	med	shallow
0	chamomile	roman	<i>Chamaemelum nobile</i>	tea leaves	nutrient accumulator	med	part	med	shallow
6	lamb's quarters	tree spinach	<i>Chenopodium giganteum album</i>	nutrient accumulator	edible leaves, mulch	low	full	any	tap
44	comfrey	probably Russian	<i>Symphytum (x uplandicum?)</i>	nutrient accumulator	mulch, insectary plant	med	full	any	tap
2	basil		<i>Ocimum basilicum</i>	edible leaves	insectary plant	med	full	low	shallow
3	jewels of Opar	fame flower	<i>Talinum paniculatum</i>	edible leaves	good for anemia	low	full	med	tubers
6	molokhia	Egyptian spinach	<i>Corchorus olerarius</i>	edible leaves		low	full	any	
10	amaranth	bayam, dark green	<i>Amaranthus</i>	edible leaves, seeds, & roots		low	full	med	tap
0	chaya	tree spinach	<i>Cnidoscolus chayamansa</i>	mulch, insectary	edible leaves when cooked	low	full	low	tubers?
15	sunflower, Sky Scraper		<i>Helianthus annuus</i>	nurse plant	nutrient accum, edible seeds	med	full	any	shallow
0	mustard		<i>Brassica</i>	edible leaves	nutrient accumulator	med	full	any	tap
0	daylily		<i>Hemerocallis</i>	grass barrier, attractive flower	edible flowers	high	part	any	shallow
0	canna lily		<i>Canna generalis</i>	mulch plant, grass barrier	edible root, landscape plant	high	part	med	shallow
0	society garlic		<i>Tulbaghia violacea</i>	grass barrier, insectary	edible leaves	low	full	any	shallow

15	unknown legume	pre-existing native		nitrogen fixing plant	wildlife food	low	part	low	tap
8	nettle	pre-existing native	<i>Urtica</i>	nutrient accumulator	herb intensifier	low	full	low	shallow
many	unknown native annual, fuzzy grey	pre-existing native		nutrient accumulator	erosion control, mulch	low	full	low	shallow
many	unknown native annual, green	pre-existing native		nutrient accumulator	erosion control, mulch	low	full	low	shallow
many	dog fennel	pre-existing native	<i>Eupatorium compostifolium</i>	mulch, nutrient accum	garden stakes	low	full	low	shallow
6	soft green eyes	pre-existing native	<i>Berlandiera pumila</i>	insectary plant, wildlife food		low	part	low	shallow
3	spiderwort	pre-existing native	<i>Tradescantia ohiensis</i>	insectary plant	edible flowers	low	part	low	shallow
many	GROUND COVERS	16 planted, 50 more planned, many pre-existing natives							
12	lemon grass		<i>Cymbopogon citratus</i>	edible leaves	erosion control, grass barrier	high	full	med	shallow
1	malabar spinach, red		<i>Basella rubra</i>	edible leaves	seasonal groundcover	med	full	low	shallow
2	malabar spinach, green		<i>Basella alba</i>	edible leaves	seasonal groundcover	med	full	low	shallow
1	purslane	succulent	<i>Portulaca oleracea</i>	ground cover	edible leaves & stems	low	full	any	tap
many	wiregrass	pre-existing native	<i>Aristida stricta beyrichiana</i>	ground cover	mulch (clippings)	low	part	low	shallow
many	unknown grasses	pre-existing native		ground cover, mulch (clippings)	wildlife food-gopher tortoise	low	full	low	shallow
many	bahia grass	pre-existing native	<i>Paspalum notatum</i>	ground cover	mulch (clippings)	low	full	low	shallow
1	sandhill milkweed	pre-existing native	<i>Asclepias humistrata</i>	ornamental	ground cover, insectary plant	low	full	low	shallow
130	ROOTS	28 planted, approx 100 more planned, no pre-existing natives							
0	garlic chives		<i>Allium tuberosum</i>	edible root and stem	grass barrier, nutrient accum	med	part	med	bulb

0	chives		<i>Allium schoenoprasum</i>	edible root and stem	grass barrier, nutrient accum	med	part	med	bulb
0	horseradish		<i>Armoracia rusticana</i>	mulch, grass barrier	edible tubers	med	full	low	tap
18	leek	giant garlic	<i>Allium scorodoprasum</i>	edible root and stem	grass barrier	med	full	med	bulb
0	jerusalem artichoke	sunchoke	<i>Helianthus tuberosus</i>	edible tubers, grass barrier	insectary plant	low	full	any	tuber
10	sweet potato		<i>Ipomoea batatas</i>	edible root	seasonal ground cover	med	full	low	tuber
80	VINES	4 planted, approx 70 more planned, 6 pre-existing natives							
1	muscadine grape, Cowart		<i>Vitis rotundifolia</i>	fruit production	shade, mulch	low	full	med	shallow
1	muscadine grape, Southern Home		<i>Vitis rotundifolia</i>	fruit production	shade, mulch	low	full	med	shallow
1	muscadine grape, Triumph		<i>Vitis rotundifolia</i>	fruit production	shade, mulch	low	full	med	shallow
0	maypop passion fruit	native	<i>Passiflora incarnata</i>	fruit production, insectary plant		med	part	med	shallow
1	currant tomato	indeterminate	<i>Lycopersicon pimpinellifolium</i>	fruit production	wildlife food	high	full	low	shallow
0	chayote	vegetable pear	<i>Sechium edule</i>	edible fruit	all parts are edible	med	full	med	shallow
0	burgundy beans		<i>Macroptilium bracteatum</i>	edible bean	nitrogen fixer, perennial	low	full	any	shallow
6	greenbrier, earleaf	pre-existing native	<i>Smilax auriculata</i>	edible vegetative shoots	wildlife food (berries)	low	full	low	tuber