

General Fruit Planting Information For Galveston Country





Planting Your Bare Root Tree

Late winter till early March is an excellent to be planting fruit trees, vines, and bushes. It's a good time because it gives the plants a chance to get roots established before the warm weather arrives. It's also an ideal time to plant bare root fruit trees if you follow a few important rules.

- Keep the roots moist until the tree is planted
- Store in the shade
- Plant in a sunny spot
- Follow the "Planting a Potted Tree" (GC-322 on the reverse side)
- Do not apply fertilizer
- Never cover the 'graft' with soil
- Water the tree
- For peaches, plums, certain other fruit trees:
 Remove top half of tree to balance the top with the roots and produce wider spread and easier harvest

If you purchased a bare root tree today, plant it today. Since it's important to keep the roots moist, your best bet is to plant it today. Choose a sunny location and following the handout "Planting a Tree. Pack it in wet sawdust, moist sand, wet paper towels or newspaper while you are preparing the hole.

If you purchased a bare root tree today, and cannot plant it till tomorrow, 'heel' in the tree roots. 'Heeling in' means to lay the tree down in a shady area and bury the roots in soil till it can be planted – tomorrow. You may dig a temporary hole in a shady spot, put soil over the roots to keep them moist, or even in a bucket with a little soil in it. That will hold them until you can get them planted.

You have automatically selected a variety that's well-adapted to this area by making your purchase at the Galveston County Master Gardener Plant Sale. If you are buying fruit trees in the future, be sure to contact the Galveston County Extension Office for a list of varieties that do well in our climate or search for "Gardening With Skip" http://aggie-horticulture.tamu.edu/travis/gardeningwithskip/index.html

By Sandra Devall, Galveston County Master Gardener



Planting Your Potted Tree

Steps for Planting

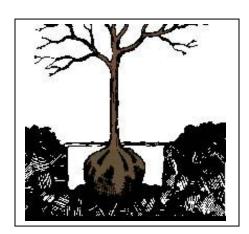
- 1. Select a site that is in full sun.
- 2. Dig the hole twice as wide as the root ball (container), and no deeper than the height of the root ball.
- 3. The soil that you dig out of the hole is what you use to backfill around the root ball.
- 4. No soil amendments are recommended when planting
- 5. Therefore, no compost, peat moss, or shredded pine bark should be added to the backfill.

After planting the tree, build a 4-inch tall berm around the edge of the hole. Fill the berm with a mulch (i.e. shredded bark or compost). The mulch and berm make it easier to water the tree and reduce weed competition.

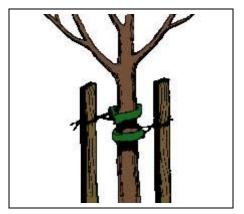
For most trees, staking is not recommended; however, if the tree trunk is not sturdy enough, use two stakes, one on either side of the tree, and give the trunk support for the first year only. Below are diagrams of a typical tree planting.

Right after planting, water the tree in by filling the bermed basin with water. This will settle the existing soil around the root ball. For the first week after planting, lightly water the tree every day (about one pint to one quart of water each day). The second week, water every other day with about one to two quarts of water. During week three, water every third day with two to three quarts of water. Week four and beyond, water once a week if needed. The goal is to wean the tree slowly off of supplemental irrigation, and produce a root system large enough for the tree to thrive on natural rainfall.

REMEMBER: These are just guidelines. Use your index finger to check the soil moisture under the mulch. If the soil is cool to the touch, do not water. If it is warm and dry, then water. More plants are killed by overwatering than by under-watering.







Recommended Planting Distances, Time to Fruit, Pollination Requirements And Pruning Systems for Texas Fruit Crops

FRUIT	SPACING BETWEEN PLANTS	YEARS TO FIRST FRUIT	POLLINATION REQUIREMENTS	PRUNING SYSTEMS
Apples				
Seedlings	25 ft.	5	Cross ²	Central leader
MM111 RS ¹	20 ft.	4	Cross	
MM106 RS ¹	14 ft.	4	Cross	
M9 RS ¹	10 ft.	3	Cross	Trellis
Apricots	18 ft.	4	Self ³	Open center
Blackberries	3 ft.	1	Self	Remove old canes and top new canes
Blueberries	6 ft.	1-2	Cross	Thin center
Citrus	20-25 ft.	2-3	Most self	Maintenance
Figs	12 ft.	2	Self	Bush or central leader
Grapes, bunch	4-8 ft.	2-3	Self	Cane or spur
Grapes, muscadine	10-20 ft.	2-3	Self & cross	Spur
Peaches	18 ft.	3	Self	Open center
Pears	25 ft.	5	Cross	Central leader
Pecans	40 ft.	4-7	Cross	Central leader
Plums	18 ft.	3	Cross	Open center
Strawberries	1 ft.	3 months	Self	Annual planting

¹RS=Rootstock

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²Cross: At least two different varieties needed for fruiting

³Self: Self-fruitful

Propagation Methods for Texas Fruits & Nuts

	1 Topagation in	METHOD1	
	BUDDING, CUTTIN GRAFTING	G, LAYERING, SUCKERING	SEEDING
Temperate Fru			
Apples	Whip graft, bark graft, chip bud,		
	T-bud, bark graft		
Apricots	T-bud, bark graft		
Blackberries		Root cutting, softwood cutting,	
		simple layering, suckers	
Blueberries		Softwood cutting, suckers	
Figs		Hardwood cutting, air layering	
Grapes,	Whip graft, T-bud, chip bud,	Hardwood cutting	
bunch	crown cleft, bark graft	_	
Grapes,	-	Softwood cutting, simple	
muscadine		layering, mound layering	
Jujubes	Whip graft	Softwood cutting, root	
		sprouts	
Nectarines	T-bud, bark graft		Common for rootstocks ⁴
Peaches	T-bud, bark graft		Common for rootstocks ⁴
Pears	T-bud , whip graft, bark graft		
Pecans	Patch bud, whip graft, inlay bark		Common for rootstocks
	graft ³ , four-flap graft		
Persimmons	Chip bud, whip graft, bark graft ²		
Plums	Inlay bark, T-bud		
Pomegranates		Hardwood and softwood	
		cuttings, suckers	
Raspberries		Softwood cutting, simple	
		layering, suckers	
Walnuts	Patch bud , whip graft, bark graft ³ ,		
	four-flap graft		
Subtropical Fr	uits		
Avocados	Chip bud, bark graft ³ , side veneer		Common for rootstocks
	graft, cleft (tip) graft		
Bananas		Suckers	
Citrus	T-bud	Hardwood cutting, semi-	Common for rootstocks
		hardwood cutting, air layering	
Mangos	Chip bud, side-veneer graft, cleft		Common for rootstocks
	(tip) graft		
Papayas		Softwood cutting	Common for rootstocks

¹Preferred or most common method is shown in boldface.

²Primarily used in top-working, established trees.
³Also used in top-working, established trees.

⁴Remove seeds from pit.



Collecting and Storing Graftwood

by George Ray McEachern Extension Horticulturist Texas Agricultural Extension Service Texas A&M University

Successful in-lay and four-flap grafting of pecans is dependent on the availability of suitable graftwood of the desired variety. The wood must be collected in late winter during the dormant season and properly stored until spring grafting time.

Collection

Collect the graftwood in late February to early March while the tree is still dormant. If the buds have begun to swell and grow, the wood is inferior and cannot be used successfully.

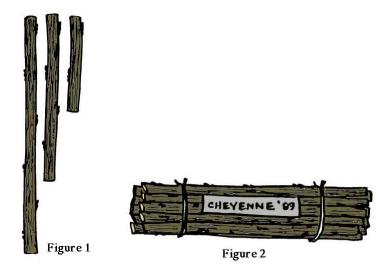
Select parent trees of the desired variety that are free of obscure scale, rosette, and disease. Young vigorous trees produce abundant, smooth and large-sized, current-season wood. Moderate-sized trees making normal growth usually have good graftwood in their uppermost limbs. Older trees can be cut back to force vigorous new growth satisfactory for graft wood.

Stick Preparation

Select straight, smooth graftwood from 1-year-old wood 1/4- to 1/2-inch diameter. Cut shoots for grafts into 6-, 12-, or 18-inch lengths to give one, two, or three graft sticks.

Figure 1 is graftwood 3/8 inch diameter collected in February for storage as 6, 12, or 18 inch sticks.

Each graft stick should contain at least three buds or nodes. Seal the end of the graft sticks with melted wax, grafting paint, or orange shellac. Only 1/4-inch of the end of each stick needs to be treated. When the seal is dry, tie the graft sticks in bundles no more than six each. Label each bundle with permanent ink on a wood or metal write-on label. The variety and year should be recorded on the label. Figure 2 is a graftwood bundle labeled and ready for packing material and storage.



Packing Material

Paper towels, sphagnum moss, or wood shavings can be used as packing material to prevent the graft sticks form drying out. Moist paper towels that have had all of the water squeezed out can be wrapped around each bundle. A second method involves placing the graft stick bundles in slightly moist sphagnum or wood shavings. The wrapped bundles are then placed in polyethylene bags. Plastic bags do not breathe and should not be used.

Storage

Refrigerate the bags of graft stick bundles at a temperature of 30 to 45 degrees F. Do not allow graftwood to dry out during storage. Take the desired wood out of refrigeration only as needed. Wood should not be heated and recooled during the grafting season.

Grafting

Trees will be ready for in-lay or four-flap grafting in the spring as the trees begin to grow. The bark should slip during this period. Keep the graftwood in a cool, moist place while grafting.

Note: Citrus require addition steps, refer to GC-302 "Grafting Citrus Schedule"

Hypertext markup and graphics colorization by Gretchen Eagle and Dan Lineberger. http://aggie-horticulture.tamu.edu/propagation/collect/collect.html