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STONE FRUIT Peaches, Nectarines, Plums, Apricots and Almonds

PRODUCTION

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HOME FRUIT PRODUCTION—STONE FRUIT

Peaches, Nectarines, Plums, Apricots and Almonds

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MAY 2 5 1993

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Fruit trees are widely adapted in Texas. However, success in growing fruit trees and in producing quality fruit doesn't just happen. Careful attention must be given to basic management practices including site selection, variety selection, weed control, water and pest management.

SOIL AND SITE REQUIREMENTS

Good soil moisture drainage is essential for growing healthy, productive trees. Soils with standing water or ones that remain saturated for even a day or two following a heavy rain are unsuitable for fruit trees. If this describes your soil, you can still grow fruit by planting trees in well-drained, raised beds. Prepare beds by bringing in or scraping up topsoil into a 6- to 12-inch high mound at least 8 to 10 feet across. High organic potting soil mixes are less desirable because they encourage continual fall growth and make young trees more vulnerable to winter freeze injury. A raised bed can be framed with railroad ties or edging timbers for a more attractive appearance.

A soil fertility test before planting helps avoid undesirable sites, and minerals such as phosphorus and potassium can be added before planting where needed. Information on soil testing is available from you local county Extension office.

Plentiful sunlight is a key to maximizing fruit production. Choose an area that is sunny most or all of the day. Early morning sunshine is particularly important to dry dew from the plants, thereby reducing the incidence of diseases. If the planting site does not get sufficient sun, expect reduced performance from the trees.

PURCHASING TREES

Purchase trees from a reliable nursery source. Bargain plants may not be healthy or may not be a variety adapted to your area. Ideally, purchase 3- to 4foot trees with good root systems free of apparent disease problems. A smaller tree with a good root system is more desirable than a larger tree with a poor root system. Specify that you want trees that are budded onto Nemaguard rootstock to prevent root knot nematode damage. Most fruit trees are sold "bare root." Purchase and plant bare root trees while fully dormant, generally in December through February for most of Texas.

SOIL PREPARATION AND PLANTING

Thoroughly prepare the soil by deeply cultivating, either by hand or with a rototiller before planting. At this time also make any recommended adjustments to the soil.

When the fruit trees arrive from the nursery, open the bundles immediately to inspect for damage and check general condition of the trees. Do not accept trees if roots appear to have dried out. This is also true for trees purchased from your local nursery or garden center. "Heel in" the trees if you are not ready to plant them. Simply dig a shallow trench in which tree roots or a bundle of trees can be covered with moist soil to protect them until planting.

Plant in the winter, preferably before March 1, to allow for root development before spring growth. Before planting, soak the roots for no more than 1 hour to insure they are not under any moisture stress.

Dig the planting hole just large enough for the tree's root system to be spread in a natural position. Avoid digging a hole deeper than the root system as loose soil beneath the roots usually causes trees to sink too deeply. Larger holes filled with topsoil are of no benefit unless the soil at the planting site is extremely poor (rocky, calcareous, etc.). In this case, use raised beds.

Stone fruit trees will develop at least a 15-foot diameter limbspread at maturity. So plant them at least 10 feet apart to avoid excessive competition.

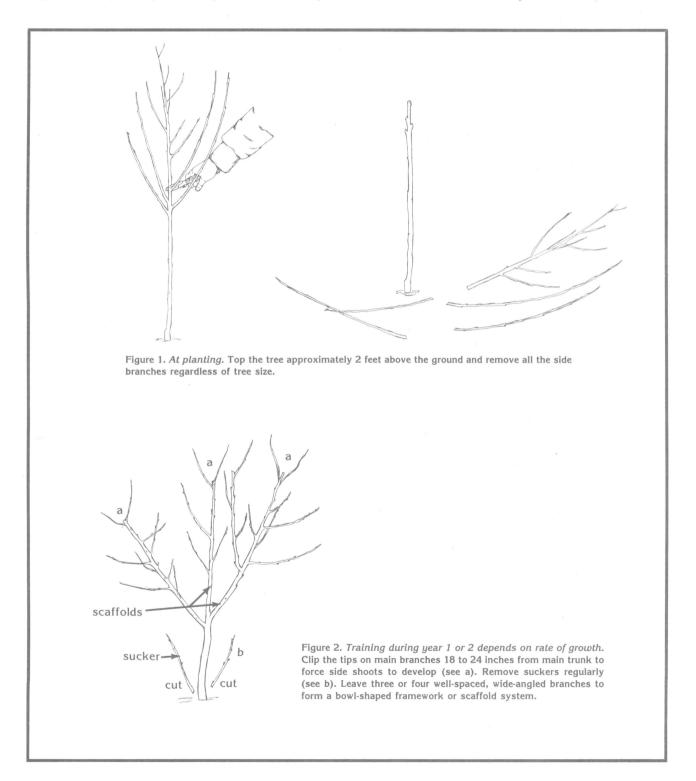
Set plants at approximately the same depth that they grew in the nursery. Using the soil taken out of the hole, firm it around the roots and do not add fertilizer to the hole. Water the trees thoroughly soon after they are set; be sure that air pockets in the hole are filled and that the soil is at the proper level on the base of the tree after watering.

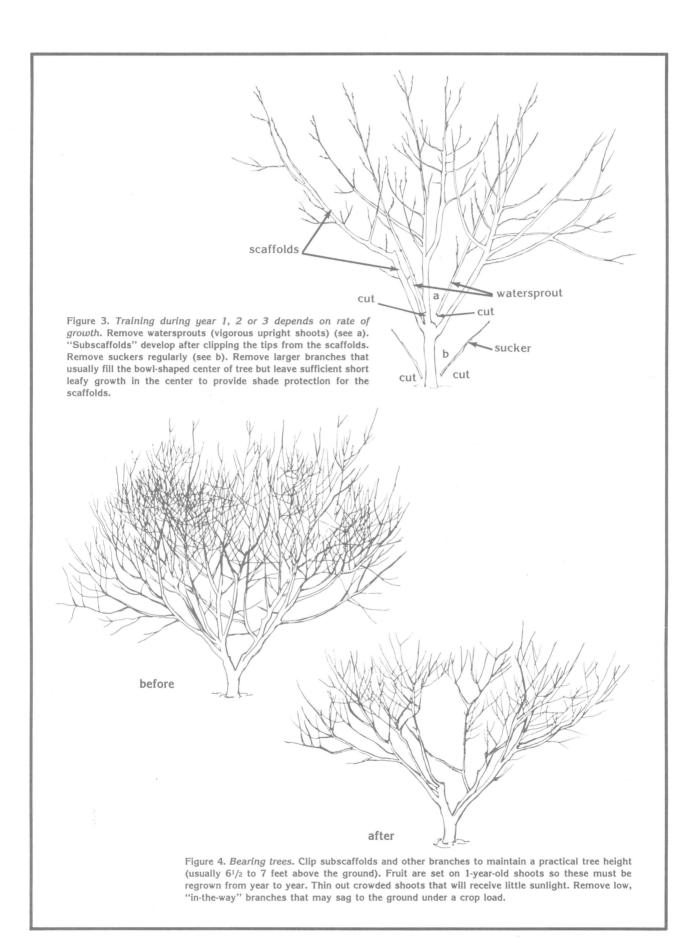
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PRUNING AND TRAINING

Pruning a young tree controls its shape by developing a strong, well-balanced framework of scaffold branches. The open center pruning system is best suited for stone fruit trees. Since most fruit trees bear fruit on wood that grew the previous year, this wood is regrown from year to year. New growth needs full light or it will shade out and die with all the production occurring on the outer perimeter of the tree. The open center system outlined below maximizes light penetration to all parts of the tree, resulting in fruit production over the entire tree.

Light pruning can be done any time of the year. However, perform major pruning only during the dormant season or late winter just before budbreak.





IRRIGATION

Water is essential for producing large fruit and maintaining healthy trees. Whether trees are watered by drip irrigation, sprinklers, the garden hose or rainfall makes little difference as long as the trees receive sufficient water. Normally trees need water at least every 3 weeks. In summer heat, provide a deep soaking irrigation at least weekly to maintain healthy trees. Overwatering can damage or drown trees. Sticky clay soils are especially vulnerable to water saturation and should be allowed to dry for a few days between each watering.

WEED CONTROL

Eliminating weed competition around young trees is critical for survival and rapid growth. Heavy weed or grass competition results in severe nitrogen deficiency (yellow foliage with red spots); trees will produce little or no growth and may often die. Ideally, keep the soil surface weed-free in an area at least as wide as the limb spread of the tree.

The safest way to do this is with a hoe. Chemicals are available that will do a good job, but they are hazardous if used carelessly. Do not attempt chemical weed control unless all aspects of safety and sprayer calibration are well understood.

FERTILIZATION

Fruit trees can be fertilized the first year after they leaf out in the spring. Place the fertilizer at and slightly beyond the canopy edge of the tree but never against the trunk. General recommendations for regularly watered trees are included in the following table.

200.	March	April	Мау	June	July
Year 1		1 cup ¹ balanced ²	1 cup 21-0-0	1 cup 21-0-0	1 cup 21-0-0
Year 2	2 cups balanced	2 cups 21-0-0	2 cups 21-0-0	2 cups 21-0-0	

Bearing trees

- February--2 cups balanced fertilizer per inch of trunk diameter
- May--2 to 6 cups 21-0-0 per tree depending on vigor of shoot growth
- August--no fertilizer if trees are making vigorous growth; 11/2 cups 21-0-0 per tree if there is no new growth but healthy leaves; 3 cups 21-0-0 per tree if there is no new growth and leaves are yellow

Note: If your soil pH is above 7.5, do not apply phosphorus fertilizer.

THINNING

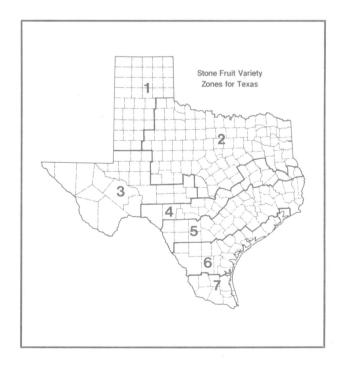
Fruit trees grown under favorable conditions set more fruit than can be properly developed. Removing excess fruit is necessary to insure satisfactory development of the remaining fruit and to prevent limb breakage and shortened tree life from overcropping. Remove the fruit by hand approximately 4 weeks after bloom. Space fruit about one every 6 to 8 inches on a branch.

DISEASE AND INSECT CONTROL

The best quality fruit is produced when diseases and insects are controlled. Unless an efficient spray program is maintained, it is not advisable to plant stone fruit trees. The most serious diseases are brown rot, scab and leaf curl; insect problems include scale, plum curculio, catfacing insects and peach tree borer. The first line of defense is good sanitation. Remove old diseased fruit and wood as it appears on the tree. Your local county Extension office has information on timing, methods and materials to control diseases and insects. Many garden centers sell home orchard fruit tree sprays containing an insecticide and fungicide. Applying one of the products according to label directions usually controls most insect and disease pests.

VARIETIES

The following stone fruit varieties are listed according to the state's zones in which they are adaptable. See the map for the location of each zone.



¹One cup of granular fertilizer is equivalent to approximately 1/2 lb.

²Apply balanced fertilizer according to soil test recommendations, or use a common mix such as 15-5-10.

Nectarines

The nectarine is a fuzzless mutation of a peach and not a cross between a peach and a plum. Nectarines are not generally well adapted because the smooth-skinned fruit is especially vulnerable to diseases and wind-scarring. Currently the recommended variety list is small, but trials are underway by the Texas Agricultural Extension Service to evaluate some of the new varieties.

Plums

Plant at least two varieties to insure pollination of certain varieties. The recommended varieties are Japanese or Japanese-hybrid plum varieties. The large-fruited European-type plums that commonly reach the supermarkets are not as well adapted here because of greater disease susceptibility and lower production.

Apricots

Contrary to common belief, apricots are selffruitful and do not require a pollinator. Unfortunately, fruiting is inconsistent on all varieties. The greatest consistency in fruiting is on trees planted near buildings although it is not uncommon to have yearly fruiting on certain trees growing in the open. Frost damage sometimes causes crop loss, but fruit often fails to set when there is no frost damage.

Peaches

Peaches are well adapted to most parts of Texas. Because all peaches are self-fruitful, it is not necessary to plant more than one variety. One tree normally supplies more peaches than one family can consume. The later ripening varieties are of better quality.

Almonds

Almonds are eaten as a nut, but the required cultural practices and tree appearance are essentially the same as peaches. Almonds are generally poorly adapted to Texas because they bloom too early in the spring and encounter freeze problems. No varieties are highly recommended because of general failure to set crops. Two relatively late blooming varieties include Halls Hardy and Star.

CHARACTERISTICS OF RECOMMENDED NECTARINE VARIETIES (ONES LISTED HAVE YELLOW COLORED FLESH)

Variety	Fruit size	Stone*	Ripe date	Planting zone
Sun Red	small	cling	late April	6, 7
Armking	medium to large	cling	late May	1, 2, 3, 4, 5
Crimson Gold	medium	free	mid-June	1, 2, 3, 4, 5
Redglobe	large	free	mid-July	1, 2, 3

*Stone (pit) adherence to flesh; cling = tight adherence; free = no adherence

CHARACTERISTICS OF RECOMMENDED PLUM VARIETIES

Variety	Fruit size	Color	Ripe date	Planting zone
Gulfruby	small	red skin and flesh	May	6, 7
Gulfgold	small	yellow skin and flesh	May	6, 7
Bruce	large	red skin and flesh	mid-May	1, 2, 3, 4, 5, 6
Allred	small	red skin and flesh	early June	1, 2, 3, 4, 5, 6
Methley	medium	purple skin, amber flesh	early June	1, 2, 3, 4, 5, 6
Morris	large	purple skin and flesh	mid-June	1, 2, 3
Ozark Premier	large	red and cream streaked/ yellow flesh	late June	1, 2, 3

CHARACTERISTICS OF RECOMMENDED APRICOT VARIETIES

Variety	Fruit size	Color	Ripe date	Planting zone
Bryan	medium	orange	late May to early June	1, 2, 3
Hungarian	medium	orange	early June	1, 2, 3
Moonpark	medium to large	orange	mid-June	1, 2, 3
Royal	medium	yellow	mid-June	4, 5, 6
Blenheim	medium	pale orange	late June	4, 5, 6

CHARACTERISTICS OF RECOMMENDED PEACH VARIETIES

Variety	Fruit size	Stone*	Ripe date	Planting zone
Yellow Flesh				
EarliGrande	small	cling	mid-April	6, 7
TropicSweet	medium	free	late April	6, 7
FlordaPrince	small	cling	late April	7
TropicBeauty	medium	semi-free	late April	6, 7
FlordaGrande	medium to large	semi-cling	early May	6, 7
FlordaCrest	small	cling	early May	5,6
FlordaKing	medium	semi-cling	mid-May	6
Springgold	small	cling	mid-May	1, 2, 3, 4
Juneprince	medium	semi-free	mid-May	3, 4, 5
Bicentennial	small	cling	mid to late May	1, 2, 3, 4
JuneGold	large	semi-cling	late May	4, 5
Texstar	medium to large	semi-cling	late May	6
Surecrop	medium	cling	early June	1, 2, 3
TexRoyal	large	free	early June	4.5
Sentinel	large	semi-cling	early June	1, 2, 3, 4, 5
Harvester	medium to large	semi-free	mid-June	2, 3, 4, 5
Ranger	large	free	mid to late June	1, 2, 3
La Feliciana	large	free	late June	5,6
Redglobe	large	free	late June	1, 2, 3, 4
Summergold	medium	free	late June	4
Fireprince	large	free	late June	1, 2, 3, 4
Bounty	large	free	late June-early July	3, 4
Milam	large	free	early July	1, 2, 3, 4
Loring	large	free	early July	2, 3, 4
Denman	large	free	early July	1, 2, 3
Dixieland	large	free	mid-July	2, 3, 4, 5
Redskin	large	free	mid-July	2, 3, 4, 5
Jefferson	large	free	mid to late July	1, 2, 3, 4
White Flesh				, , ,
TropicSnow	medium	cling	mid-May	6,7
FlordaGlo	medium	cling	mid-May	6, 7
Melba	medium to large	free	mid-July	4, 5
Palace .	medium to large	free	mid-July	4, 5
Belle of Georgia	medium	free	mid-July	1, 2, 3
White Hale	large	free	mid to late July	4, 5
White Star	large	free	late July	4, 5

*Stone (pit) adherence to flesh; cling = tight adherence; free = no adherence

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