

Home Fruit Planting Guide

October 2016

David A. Hillock
Extension Consumer Horticulturist

B. Dean McCraw

Extension Tree Fruit and Pecan Specialist

A home fruit planting carefully selected, properly located, and well managed can enhance the home landscape, provide high-quality fruits and serve as a satisfying hobby.

The home fruit garden requires considerable care. Thus, people not willing or able to devote some time to a fruit planting will be disappointed in its harvest.

Some fruits require more care than others do. Tree fruits and grapes usually require more protection from insects and diseases than strawberries and blackberries. Generally speaking, flowers and fruits of fruit trees must be protected by pesticide sprays from before blossom-time until harvest. In addition, sprays may be required to protect leaves, the trunk, and branches.

Small fruits are perhaps the most desirable of all fruits in the home garden since they come into bearing in a shorter time and usually require few or no insecticide or fungicide sprays.

Fresh fruits can be available throughout the growing season with proper selection of types and cultivars (varieties).

Soils and Sites

Avoid poorly drained areas. Deep, sandy loam soils, ranging from sandy clay loams to coarse sands or gravel mixtures, are good fruit soils. On heavier soils, plant in raised beds or on soil berms to improve drainage.

All fruit crops are subject to damage from late spring freezes. Hills, slopes or elevated areas provide better air drainage and reduce frost damages. Make certain that the air can move freely throughout the planting site and is not "boxed" in with surrounding terrain or tree borders.

Heat from houses, factories, and other structures in urban areas frequently keep the temperature 4 or 5 degrees warmer than surrounding rural areas.

Fruits do best in full sun. They can tolerate partial shade, but fruit quality will be lowered.

Size of Planting Area

Plan the planting to fit the area involved as well as family needs. A smaller planting, well cared for, will usually return more quality fruit and enjoyment to the grower than a larger neglected one. One-half acre or less planted to adapted Oklahoma Cooperative Extension Fact Sheets are also available on our website at: http://osufacts.okstate.edu

cultivars of the best kinds of fruit is usually adequate for the average family.

Edible landscaping is becoming more widespread for large and small landscapes. Edible landscaping is the practical integration of food plants within an ornamental or decorative setting. For those with limited space in their landscapes, consider using fruit varieties that are dwarf, compact or columnar in form.

Plan Your Planting

Develop a planting plan well in advance of the planting season. Determine the kinds of fruits, cultivars, and quantities of each needed. Locate a source of plants and make arrangements for plants to be available at the desired time of planting.

Perennial weeds such as bermudagrass and johnsongrass compete heavily with young plantings and should be eliminated before planting. This can be done by spraying with a post-emergence herbicide such as glyphosate (Roundup®) in late summer the year before planting or by shading out weeds by growing hybrid sudangrass for the year prior to planting.

Strawberries especially should not be planted in newly turned under bermudagrass sod. Not only will the bermudagrass regrow and cause extreme competition problems because of the short height of the strawberry plants, but the white grubs that frequently infest bermudagrass sod can destroy the strawberry roots.

For best survival and production, supplemental water should be provided in the summer. Locate your plantings near a water source.

Planting

Plants received as bare root should be planted immediately after arrival. If roots are dry, completely immerse the roots in water for a few minutes or overnight before planting. Always water plants immediately after planting.

Never allow the roots to dry out or freeze. When planting is delayed several days, heel in trees by forming a mound of loose soil or mulching material. Place the roots into this mound, cover them, and moisten. The trees may be vertical or horizontal as long as the roots are covered. This protects them from drying or freezing.

Set trees about the same depth that they grew in the nursery row. Trim off broken and dried roots. Place topsoil around the roots and firm the soil to exclude air. Settle the soil with water and make sure the roots are left in a natural outward position. Leave a small basin one or two inches deep around the tree to aid in watering. Wrap the trunk from the soil line up to the first branches (or 18 inches above the ground) to protect the trunk from sunscald, rodent injury, insect damage, and drying out.

Cultural Practices

During the first summer, cultivate or mulch around the fruit plants to reduce competition from other plants and to conserve moisture and fertility. Irrigation is especially important in the first few years while the planting becomes established.

Information on pruning, spraying, and other cultural practices is available at your local county Extension office.

Pollination

Pay close attention to the pollination requirements of the different fruits to avoid disappointment. Many fruits require that the flower is pollinated with pollen from a different cultivar of the same fruit or the fruit will not develop. Planting only one cultivar of these fruits often results in masses of blooms in the spring, but few or no fruits. Different strains of the same cultivar (e.g. two spur strains of 'Delicious') will not provide proper cross-pollination.

There are a few cultivars of apple and pear that do not produce viable pollen. If one of these cultivars is planted, two other cultivars will need to be planted (a total of 3) to provide adequate pollen for all. Sometimes some apple cultivars are listed as self-fertile in nursery catalogs, but for consistent production of the best quality fruit, cross-pollination with another cultivar should always be provided.

Duke cherries are hybrids between sweet and sour cherries. They can be cross-pollinated by either sweet or sour cherries, but Duke cherries should not be counted on to cross-pollinate sweet cherries.

All fruits in the accompanying table that are not marked as requiring cross-pollination are self-fertile, meaning that a cultivar of those fruits can set fruit with its own pollen. Highbush blueberries will set much better crops if cross-pollination is provided. Rabbiteye blueberries require cross-pollination. Highbush and rabbiteye blueberries will not pollinate each other.

Dwarf Trees

Dwarfing rootstocks enable fruit trees to be grown in much smaller areas than standard-sized trees. The term 'dwarfing' refers to a tree smaller than when grown on seedling rootstocks, even if only 10 to 15 percent smaller. The degree of dwarfing varies with the rootstock. In general, semi-vigorous rootstocks will produce a tree about 3/4 the size of a standard tree, semi-dwarf about 1/2 sized, and fully dwarfing rootstocks produce trees 1/3 of standard size or smaller.

Genetic dwarf fruit trees are available but generally are not satisfactory. 'North Star' sour cherry is an exception.

Types of Fruit

Apples—M.9 and M.27 rootstocks produce fully dwarfed trees (6-8' tall and 4-6' tall respectively). Both produce shallow, weak root systems and require staking or trellising, and regular watering. Dozens of other size-reducing apple rootstocks exist, but the best for Oklahoma is MM.111. MM.111 will produce a tree that is 25 percent smaller than on seedling rootstock, but very well anchored and drought resistant.

Interstem trees, with a MM.111 root system, 8 to 10 inches of trunk of M.9 or M.26 and with the fruiting cultivar grafted on top combine the anchorage of the MM.111 with the dwarfing of M.9 or M.26 to produce a tree 8 to 10 feet tall that will not need support. Interstem trees are more costly and less available than single graft trees.

Spur-type strains of apple cultivars have more spurs and fewer long branches than the non-spur strains. They are smaller growing and preferred where available.

Pear—Quince is the standard dwarfing rootstock for pears, but will require support. Quince rootstocks are less cold hardy than pear, and are very susceptible to fireblight. Quince C is the most dwarfing, producing a 1/4 to 1/3 size tree. A new series of pear rootstocks, the OHXF series (from a cross between 'Old Home' and 'Farmingdale'), is entering the nursery trade, and offers a variety of tree sizes from 1/4 to 3/4 standard size.

Pears are very susceptible to the bacterial disease, fireblight. Only cultivars with known resistance to this disease should be planted. Even with blight resistant cultivars, pruning out infected shoots 12-18 inches below the infection as soon as they appear will be necessary to prevent disease buildup. Pruning shears should be sterilized between cuts. More information on fire blight control is available at your local county Extension office. The 'Magness' cultivar should be planted with two additional cultivars since it does not produce viable pollen.

Peach—There are no satisfactory dwarfing rootstocks for peach at present; however, 'Halford' or 'Lovell' are good choices. Many nurseries use *Prunus besseyi* seedlings, but often there is delayed graft incompatibility and tree death. Tree height on peaches can be kept to 6-8' by judicious annual pruning. Well-drained, deep, open-type soils of reasonable fertility are preferred. A spray program for insects and diseases beginning with a dormant application and continuing through fruit growth is required to produce clean fruit. Peach tree borer control is a necessity.

Plum—There are no satisfactory dwarfing rootstocks at present for plums. General cultural requirements are similar to peaches. The Japanese plums bloom earlier than the European types and are more subject to late spring frost damage. European and Japanese plums should not be depended upon to pollinate each other.

Cherry—There are no satisfactory dwarfing rootstocks at present for cherries. Many sweet cherries are not adapted to a hot, dry climate. Cherry leaf spot, plum curculio and poorly drained soils are the major obstacles to successful cherry production in Oklahoma. The diseases and insects can be controlled successfully with a series of sprays. Sour cherries

are generally better adapted than sweet cherries. Sweet cherries in general require cross-pollination; but two cultivars, 'Stella' and 'Lapins', are self-fertile.

Apricot—There are no satisfactory dwarfing rootstocks at present for apricot. Apricots bloom early and are usually killed by late spring frosts. The tree is very ornamental when in bloom, and tree-ripened apricots are delicious, but do not expect consistent production.

Strawberry—Strawberry roots are usually found in the 12 to 18 inch top layer of the soil. Most of the root system is in the first 6 to 8 inches of soil. This stresses the importance of supplemental irrigation and mulching for this crop. For continued good production, strawberry plantings should be renovated each year after harvest. Purchase virus-tested plants only. A production of one to two quarts of berries per three foot section of row should be possible each year.

Blueberries—Blueberries require a soil pH of 5.0 to 5.2. Highbush blueberries are best adapted to northeastern Oklahoma. They will do best when protected from hot, drying winds. Rabbiteye blueberries are best adapted to southeastern Oklahoma. Highbush blueberries must have supplemental irrigation and mulch of woodchips, sawdust or pecan shells to survive. Rabbiteye blueberries also need irrigation and will benefit from mulch.

Raspberries—Raspberries, generally, are not too productive because of the fluctuating temperatures during winter. Black raspberries, if well watered and mulched, can be successful.

Blackberries—Erect thorny blackberries are the most commonly grown and do not require trellis support. Care must be taken to maintain the rows no more than one to two feet wide to facilitate harvesting. Sucker plants that come up between the rows may be dug and moved into the row or merely removed as soon as they emerge.

Trailing thornless blackberries have smooth, arching canes, and require support on a trellis. Fruit quality is improved if the fruit are allowed to ripen to a dull black rather than a glossy black color.

Grapes—Grapevines will require support on a trellis, arbor or fence. Planting in north-south rows will increase production. Some protection from southwestern winds is desirable. Occasional supplemental watering during the fruit ripening period will improve fruit quality. Annual pruning is necessary to maintain a balance between plant growth and fruit production. It is common to remove 95 percent of the previous season's growth when pruning.

Persimmon—Oriental persimmon trees will bear fruit without pollination. Oriental and American persimmon trees will not cross-pollinate. Oriental persimmons may not be winter hardy in northern parts of Oklahoma.

OKLAHOMA HOME FRUIT PLANTING GUIDE

Season of Harvest							
• Lodi June 25-July 6 Yellow, soft, cooking only, order-end dessert and cooking of additions (red) Standard 25 to 30 One year old one year old cooking only, or and coder-englet us. One year old one year old one year old cooking only. One year old one year	Kind	Suggested Varieties***	Season of Harvest Central Oklahoma or adapted areas	Remarks	Suggested Planting Distance In Feet	What to Buy	When to Plant
Moclemore July 10-July 25 Red, dessert and cooking of a July 10-July 25 Red, dessert and cooking of a July 10-July 25 Red, dessert and cooking of a July 10-July 25 Red, dessert and cooking of a July 10-July 25 Red, dessert and cooking of a July 10-July 25 Red, dessert and cooking of a Red dessert and	APPLES	* Lodi	June 25-July 6	Yellow, soft, cooking only.	Standard 25 to 30	7	= - L
• Gala • Gala • Jonathan • Gala • Jonathan • Gala • Jonathan • Aug 25-Sept 10 • Very ausceptible to inteligint • Delicious (red) • Sept 1-10 • Red, dessert and cooking • Liberty • Red, dessert and cooking • Red, dessert and cooking • Purplish-red with yellow (res) • Golden Delicious • Sept 10-20 • Purplish-red with yellow (res) • Golden Delicious • Sept 10-20 • Purplish-red with yellow • Fuji • Sept 10-20 • Very disease loberant • Golden Delicious • Sept 10-20 • Purplish-red with yellow • Fuji • Sept 10-20 • Very disease to lored a paper • Golden Delicious • Sept 10-20 • Very disease to lored with yellow • Fuji • Sept 10-20 • Very disease to lored with yellow • Fuji • Sept 10-20 • Very disease to lored with yellow • Fuji • Sept 10-20 • Very disease to lored with yellow • Fuji • Sept 10-20 • Very dessert and cooking • Fuji • Sept 10-20 • Very dessert and cooking • Fuji • Sept 10-20 • Very dessert and cooking • Fuji • Sept 10-20 • Very dessert and cooking • Fuji • Sept 10-20 • Verlow, freestone • Redraven • June 18-24 • Verlow, freestone • Constituting on • Aug 20-25 • Verlow, freestone • Ve		* McLemore	July 10-July 25	Red. dessert and cooking	or Semi-Standard 18 to 25	One year old trees	Fall or Spring
Very susceptible to fireblight Spur-Types 15 to 22		* Gala * Jonathan	Aug 10-20 Aug 25-Sept 10	Orange-red, dessert only.	or Semi-dwarf 15 to 20) -
Delicious (red) Sept 1-10 Red, dessert and cooking Liberty Liberty Sept 1-10 Red, dessert and cooking Liberty Sept 10-20 Purplish-red with yellow flesh, dessert and cooking Arkansas Black Sept 10-20 Purplish-red with yellow flesh, dessert and cooking, sept 10-20 Purplish-red with yellow flesh, dessert and cooking, wellow, dessert and cooking, semi-cling adapted. * Braeburn Sept 10-20 Verlow, dessert and cooking, wellow, dessert and cooking, semi-cling dessert and cooking. * Fuji Sept 10-20 Verlow, dessert and cooking Sept 10-20 Verlow, dessert and cooking Gandor June 18-24 Yellow, freestone Sentine July 2-8-10 Yellow, freestone Reliance July 4-9 Yellow, freestone Coresthaven July 15-20 Yellow, freestone July 15-20 Yellow, freestone Auturmigol Aug 13-17 Yellow, freestone Sarks Enore Sept 13-20 Yellow, freestone Sarks Enore Auturmigol Aug 13-17 Yellow, freestone Fairtime Sarks Enore Sept 13-20 Yellow, freestone Fairtime Sarks Enore Sept 13-20 Yellow, freestone Fairtime Sarks Enore Sept 13-20 Yellow, freestone Fairtime Sarks Enore Sarks Enore Sarks Enore Sarks Enore Sarks Enore Sept 13-20 Yellow, freestone Fairtime Sarks Enore Sarks Eno				Very susceptible to fireblight	Spur-Types 15 to 22		
Liberty Sept 1-10 Red, dessert and cooking Freedom Sept 1-10 Red, dessert and cooking Freedom Sept 10-20 Purplish-red with yellow flesh, dessert and cooking. Arkansas Black Sept 10-20 Purplish-red with yellow flesh, dessert and cooking. Braeburn Sept 10-20 Vellow, dessert and cooking. Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking. Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking. Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking. Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking. Fuji Sept 10-20 Vellow, freestone Sentine July 8-13 Yellow, freestone Autumnglo Orachita Gold Aug 13-17 Yellow, freestone Autumnglo Aut			Sept 1-10	and cedar-apple rust. Red, dessert only.	5		
Freedom Sept 1-10 Red, dessers uberaint Arkansas Black Sept 10-20 Purplish-red with yellow flesh, dessers and cooking, dessers and cooking. • Golden Delicious Sept 10-20 Vellow, dessert & cooking. • Fuji Sept 10-20 Vellow, dessert and cooking dessert and cooking. • Fuji Sept 10-20 Vellow, dessert and cooking dessert and cooking. • Fuji Sept 10-20 Vellow, feestone Sentinel June 28-July 3 Vellow, feestone Redhaven July 2-7 Vellow, feestone Autumglo Aug 1-27 Vellow, feestone Cresthaven July 15-20 Vellow, freestone Autumglo Aug 1-27 Vellow, freestone Aug 20-25 Vellow, freestone Starks Encore Aug 20-25 Vellow, freestone Starks Encore Aug 20-25 Vellow, freestone Starks Encore Aug 20-25 Vellow, freestone Autumglo Aug 1-3-17 Vellow, freestone Starks Encore Aug 20-25 Vellow, freestone Autumglo Aug 1-3-17 Vellow, freestone Starks Encore Aug 1-3-17 Vellow, freestone Aug 20-25 Vellow, fre		Liberty	Sept 1 -10	Red, dessert and cooking			
Arkansas Black Sept 10-20 Purplish-red with yellow flesh, dessent and cooking, dessent and cooking. • Golden Delicious Sept 10-20 Yellow, dessert & cooking. • Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking. • Fuji Sept 10-20 Orange/red blush over yellow, dessent and cooking. • Fuji Sept 10-20 Vellow, freestone Candor June 18-24 Yellow, freestone Banger July 4-3 Yellow, freestone Glohaven July 4-3 Yellow, freestone Glohaven July 15-20 Yellow, freestone Cresthaven July 15-20 Yellow, freestone Autumnglo Outaching Glohaven Aug 6-10 Yellow, freestone Vellow, freestone Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Vellow, freestone Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Coutaching Glohaven Sept 13-20 Yellow, freestone Multi Hale Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Wellow, freestone Coutaching Glohaven Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Coutaching Glohaven Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Coutaching Glohaven Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Coutaching Glohaven Sept 13-20 Yellow Sept 13-20 Y		Freedom	Sept 1 -10	very disease tolerant Red, dessert and cooking			
Fuji Sept 10-20 religible rust rooking. Golden Delicious Sept 10-20 religible rust rooking. * Golden Delicious Sept 10-20 religible rust rooking. * Braeburn Sept 10-20 Viellow, dessert & cooking. * Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking dessert and cooking restore and restore and restore and restore religible restore and yellow, freestore and yellow, fr			000	very disease tolerant			
tolerant to cedar apple rust Golden Delicious Sept 10-20 Well adapter * Braeburn Sept 10-20 Vella dapter * Braeburn Sept 10-20 Orange/red blush over yellow, dessert and cooking * Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking Candor June 18-24 Yellow, freestone Sentinel June 28-July 3 Yellow, freestone Ranger July 8-13 Yellow, freestone Ranger July 15-20 Yellow, freestone Ranger July 15-20 Yellow, freestone Oudcarr July 15-20 Yellow, freestone Cresthaven July 21-27 Yellow, freestone Oudcarr July 21-27 Yellow, freestone Aug 13-17 Yellow, freestone White Hale Aug 13-17 Yellow, freestone Sizarks Encore Aug 13-17 Yellow, freestone Sept 13-20 Yellow, freestone Sizarks Encore Aug 13-17 Yellow, freestone Sept 13-20 Yellow, freestone Sept 13-20 Yellow, freestone Cavaller July 15-20 Yellow, freestone Sept 13-20 Yellow, freestone Cavaller July 15-20 Yellow, freestone Sept 13-27 Yellow, freestone Cavaller July 15-20 Yellow, freeston		Alkalisas Diack	Sept 10-20	ruipiisii-led witti yellow liesti, dessert and cooking,			
* Golden Delicious Sept 10-20 Well adapted. * Braeburn Sept 10-20 Orange/red blush over yellow, dessert and cooking. * Fuji Sept 10-20 Orange/red blush over yellow, dessert and cooking. * Fuji Sept 10-20 Vellow, semi-cling 20x20 June bud trees Sentinel June 18-24 Yellow, freestone Candor July 2-7 Yellow, freestone Hellance July 8-13 Yellow, freestone Glorware July 15-20 Yellow, freestone Glorware July 15-20 Yellow, freestone July 15-20 Yellow,		:		tolerant to cedar apple rust			
* Braeburn Sept 10-20 Orange/red blush over yellow, dessert and cooking * Fuji Sept 10-20 Vellow, dessert and cooking Candor June 18-24 Vellow, dessert and cooking Sentinel June 28-July 3 Vellow, freestone Reliance July 4-9 Vellow, freestone Reliance July 4-9 Vellow, freestone Reliance July 4-9 Vellow, freestone Ranger July 8-13 Vellow, freestone Glohaven July 15-20 Vellow, freestone Nectar July 15-20 Vellow, freestone Cresthaven July 28-Aug 3 Vellow, freestone Autumnglo Aug 13-17 Vellow, freestone Starks Encore Aug 13-17 Vellow, freestone Starks Encore Aug 20-25 Vellow, freestone Starks Encore Aug 20-25 Vellow, freestone Farifilhaze July 3-9 Vellow, freestone Redchief July 15-20 Vellow, freestone Starks Encore Sept 13-20 Vellow, freestone Redchief July 15-20 Vellow, freestone Redchief July 21-27 Vellow, freestone Redchief July 21-20 Vellow, freestone R		* Golden Delicious	Sept 10-20	Yellow, dessert & cooking. Well adanted	Dwarf 8 to 14		
* Fuji Sept 10-20 Yellow, dessert and cooking Candor June 18-24 Yellow, semi-cling 20x20 June bud trees Sentinel July 2-7 Yellow, freestone Beliance July 8-13 Yellow, freestone Heilance July 8-13 Yellow, freestone Heilance July 15-20 Yellow, freestone July 21-27 Yellow, freestone Ouschita Gold Aug 13-17 Yellow, freestone Auturnnglo Aug 13-17 Yellow, freestone Starks Encore Sept 13-20 Yellow, freestone White Heestone Sept 13-20 Yellow, freestone Sunglo July 21-27 Yellow, freestone Sunglo Jul			Sept 10-20	Orange/red blush over yellow,			
Candor June 18-24 Yellow, freestone Sentinel July 2-7 Yellow, freestone Rechaven July 2-7 Yellow, freestone Bediance July 3-7 Yellow, freestone Augustance July 8-13 Yellow, freestone Glohaven July 8-13 Yellow, freestone July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 28-Aug 3 Yellow, freestone Augustance July 28-Aug 3 Yellow, freestone Augustance July 28-Aug 3 Yellow, freestone July 28-Aug 3-17 Yellow, freestone July 29-25 Yellow, freestone July 3-9 Yellow, freestone July 3-9 Yellow, freestone July 21-27 Yellow, freestone Yellow, freestone Yellow, freestone July 21-27 Yellow, freestone		* Fuji	Sept 10-20	dessert and cooking Yellow, dessert and cooking			
Candor June 18-24 Yellow, semi-cling 20x20 June bud trees Sentinel June 28-July 3 Yellow, freestone Redaven July 4-9 Yellow, freestone Ranger July 8-13 Yellow, freestone Ranger July 8-13 Yellow, freestone Augustance July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 21-27 Yellow, freestone Cresthaven July 28-Mug 3 Yellow, freestone Autumnglo Aug 6-10 Yellow, freestone Ouachita Gold Aug 13-17 Yellow, freestone Starks Encore Augustance A				:	1		;
Sentinel June 28-July 3 Yellow, freestone redomant bud rednaven July 2-7 Yellow, freestone and July 15-20 Yellow, freestone and July 21-27 Yellow, freestone and July 28-Aug 3 Yellow, freestone and July 28-Aug 13-17 Yellow, freestone and July 28-Aug 13-17 Yellow, freestone and July 21-25 Yellow, freestone and July 3-9 Yellow, freestone and July 3-9 Yellow, freestone and July 21-20 Yellow, fr	PEACHES	Candor	June 18-24	Yellow, semi-cling	20x20	June bud trees	Fall
Reliance July 2-7 Yellow, freestone Raines Gone yr.) trees Raines July 8-13 Yellow, freestone Glohaven July 8-13 Yellow, freestone Glohaven July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 28-Aug 3 Yellow, freestone Cresthaven July 28-Aug 3 Yellow, freestone Aug 13-17 Yellow, freestone Aug 13-17 Yellow, freestone Starks Encore Aug 13-17 Yellow, freestone Fairtime Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 White, freestone Fairtime Sept 13-20 White, freestone Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Foxed July 3-9 Yellow, freestone Starks Encore Heath Aug 20-25 Yellow, freestone Fairtime Sept 13-20 White, freestone Starks Encore Heath Aug 20-25 Yellow, freestone Sept 13-20 White, freestone Sept 13-20 W		Sentinel	June 28-July 3	Yellow, freestone		from the south	or Spring
Fariance July 15-20 Yellow, freestone Glohaven July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 21-27 Yellow, freestone July 28-Aug 3 Yellow, freestone Autumnglo Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Starks Encore July 3-9 Yellow, freestone Aug 20-25 Yellow, freestone Sept 13-20 Yellow, freestone Fairtime Sept 13-20 Yellow, freestone Cavalier July 15-20 White, freestone Sunglo July 21-27 Yellow, freestone Sunglo July 21-27		Boliance	7-7 A-0	Yellow, fractions		or dormant bud	
Globayen July 15-20 Yellow, freestone Nectar July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 15-20 Yellow, freestone July 21-27 Yellow, freestone Autumnglo Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Yellow, semi-freestone Starks Encore Aug 20-25 Yellow, semi-freestone Fairtime EarliBlaze July 3-9 Yellow, semi-freestone Cavalier July 21-27 Yellow, freestone Sunglo July 21-27 Yellow, freestone		Rander	July 8-13	Yellow, freestone		from the north	
Nectar July 15-20 Yellow, freestone Jayhaven July 21-27 Yellow, freestone Cresthaven July 28-Aug 3 Yellow, freestone Autumnglo Aug 6-10 Yellow, freestone Ouachita Gold Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Earliblaze July 3-9 Yellow, semi-freestone Earliblaze July 15-20 White, freestone Cavalier July 21-27 Yellow, freestone Sunglo July 21-27 Yellow, freestone		Glohaven	July 15-20	Yellow, freestone			
Jayhaven July 21-27 Yellow, freestone Cresthaven July 28-Aug 3 Yellow, freestone Autumnglo Aug 6-10 Yellow, freestone Autumnglo Aug 13-17 Yellow, freestone White Hale Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Yellow, semi-freestone EarliBlaze July 3-9 Yellow, freestone Cavalier July 15-20 White, freestone Sunglo July 21-27 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone		Nectar	July 15-20	Yellow, freestone			
Cresthaven July 28-Aug 3 Yellow, freestone Autumnglo Aug 6-10 Yellow, freestone Ouachita Gold Aug 13-17 Yellow, freestone White Hale Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Yellow, semi-freestone EarliBlaze July 3-9 Yellow, freestone Cavalier July 21-27 Yellow, freestone Sunglo July 21-27 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone		Jayhaven	July 21-27	Yellow, freestone			
Autumnglo Aug 6-10 Yellow, freestone Ouachita Gold Aug 13-17 Yellow, freestone White Hale Aug 13-17 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Yellow, semi-freestone EarliBlaze July 3-9 Yellow, semi-freestone Cavalier July 15-20 White, freestone Cavalier July 21-27 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone Sunglo July 6-11 Yellow, freestone		Cresthaven	July 28-Aug 3	Yellow, freestone			
White Hale Aug 13-17 Yellow, freestone White Hale Aug 20-25 Yellow, freestone Starks Encore Aug 20-25 Yellow, freestone Fairtime Sept 13-20 Yellow, semi-freestone EarliBlaze July 3-9 Yellow, semi-freestone Cavalier July 15-20 White, freestone Sunglo July 21-27 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone		Autumnglo	Aug 6-10	Yellow, freestone			
White Hale White Hale Starks Encore Aug 20-25 Yellow, freestone EarliBlaze July 3-9 Yellow, semi-freestone Cavalier July 15-20 White, freestone Sunglo July 27-Aug 2 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone Yellow, freestone July 27-Aug 2 Yellow, freestone Ye		Ouachita Gold	Aug 13-17	Yellow, treestone			
Fairtime Sept 13-20 Yellow, freestone EarliBlaze July 3-9 Yellow, semi-freestone Cavalier July 27-Aug 2 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone Cavalier July 27-Aug 2 Yellow, freestone		White Hale	Aug 13-17	Yellow, freestone			
EarliBlaze July 3-9 Yellow, semi-freestone 20x20 June bud trees from the south July 21-27 Yellow, freestone Cavalier July 21-27 Yellow, freestone Sunglo July 27-Aug 2 Yellow, freestone Gene Aug 6-11 Yellow, freestone From the south July 6-11 Yellow, freestone Gone yr.) trees from the south July 6-11 Yellow, freestone From the south July 6-11 Yellow, freestone Gone yr.)		Starks Encore	Aug 20-25	Yellow, treestone			
EarliBlaze July 3-9 Yellow, semi-freestone 20x20 June bud trees Redchief July 15-20 White, freestone from the south Cavalier July 27-27 Yellow, freestone or dormant bud Sunglo July 27-Aug 2 Yellow, freestone from the south Badeld Aug 6-11 Vellow, freestone from the south		Fairtime	Sept 13-20	Yellow, treestone			
July 15-20 White, freestone from the south or dormant bud July 21-27 Yellow, freestone July 27-Aug 2 Yellow, freestone from the south or dormant bud July 27-Aug 2 Yellow, freestone from the porth	NECTARINES	EarliBlaze	July 3-9	Yellow, semi-freestone	20x20	June bud trees	Fall
r July 21-27 Yellow, freestone July 27-Aug 2 Yellow, freestone		Redchief	July 15-20	White, freestone		from the south	or Spring
July 27-Aug 2 Yellow, freestone		Cavalier	July 21-27	Yellow, freestone		or dormant bud	
AUC 0=1		Sunglo RedGold	July 27-Aug 2 Aug 6-11	Yellow, treestone Yellow, freestone		(one yr.) trees from the north	

PLUMS (European)	Stanley Bluefre	Aug. 20-Sept. 10 Sept 1-15	A prune plum, self-fruitful Stanley x President cross	20x20	One year old trees	Fall or Spring
(Japanese)	* Methley Bruce * Ozark Premier	Sept. 10-20 June 15-25 June 15-25 Aug. 10-20	Large, rate riperinty Red flesh, partly self-fruitful Very productive, self-fruitful Large, yellow flesh	20x20	One year old trees	Fall or Spring
CHERRIES	Early Richmond * Kansas Sweet Montmorency	May 20-June 1 May 22-June 5 June 3-15	The standard of sour or pie cherry,very consistent Duke cherry (semi-sweet) The standard of sour or pie cherry, very consistent	20x20	One or two year old trees	Fall or Spring
	Northstar Meteor Stella	June 5-20 June 5-20 June 5-20	Sour or pie Sour or pie (resistant to leaf spot) Sweet (self-fertile)			
APRICOTS	Tilton	June 25-July 5	Commercial production should not be attempted	20x20	One year old trees	Fall or Spring
PEARS	* Moonglow * Maxine ** Magness	Aug 10-Aug 25 Aug 25-Sept 5 Sept 5-Sept 15	Fireblight resistant Fireblight resistant Fireblight resistant	25x25	One year old trees	Fall or Spring
STRAWBERRIES	Earliglow Sunrise Atlas Allstar Cardinal Delite Marlate	May 5-June 5 May 5-June 5 May 10-June 10 May 10-June 10 May 15-June 15 May 15-June 15	Incorporate organic matter ahead of planting strawberries; select virus indexed plants	2x4	One year old plants	Fall or Spring
BLACKBERRIES (Erect)	Choctaw Womack Cheyenne Cherokee Cherokee	July 1-10 July 1-10 July 10-30 July 10-30	Very sweet Very sweet Large very sweet Medium large, very sweet Latest ripening, high yields	3×8	One year old root cuttings	Fall or early spring
(Erect Thornless) (Trailing)			Sweet Sweet Tellis or other support	3x8 3x8 8x12	One year old root cuttings Tip layers	Fall or Spring Early Spring
(Trailing Thornless)	roung ;) Hull Chester	July 1-20 July 20-Aug 5 July 20-Aug 5	required Trellis or other support required6x10 Trellis or other support required		One year old plants	Fall or Spring

Spring	Early Spring	Spring	Spring	Fall or Spring	Fall or Spring
One year old vines	12" to 18" well rooted plants	One or two year old trees One or two year old trees	One year old trees	One or two year old trees	One or two year old trees
8×10 14×10	4x6	15 to 18 12 to 15	8 to 10	18 to 20	20 to 25
Aug 22 Aug 15 Aug 20 White, wine type Aug 16 Aug 17 Aug 18 White, wine type Aug 17 Aug 18 Aug 19 Aug 19 Aug 19 Aug 19 Aug 19 Aug 20 White, table Aug 20 White, table seedless Aug 15 Aug 16 Aug 17 Aug 18 Aug	Soil must be quite acid (pH 5.0). May require sulfur to change	For pollination, a male tree (pollen bearing) should be included in the planting or graft a male branch into a female tree Non-astringent when fully ripe Astringent	For milder southern counties; have been grown in protected areas of Tulsa and Okla. City	Used as sweet pickles, preserves, dried confections and fruit butter	Jelly and spice Jelly and spice
Aug 15 Aug 18 Aug 10 Aug 15 Sept 1 Aug 15 Aug 20 Aug 20 Aug 20 Aug 22 Aug 22 Aug 15 Au	June 5-June 19 June 7-June 21 June 12-June 28 June 15-July 1 July 5-July 19 July 10-July 30 July 20-Aug 3	September November November November November	July to frost Aug. to frost	September September	August August
Venus Aurora (S 5279) Seyval Blanc (SV 5276) Villard Blanc (SV 12-375) Rougeon (S 58908) Delaware Catawba Verdelet (S 9110) J.S. 16-104 Romulus Himrod Fredonia Niagara Carman Saturn Reliance Mars (Muscadine)	* (highbush) Collins Spartan Blueray Bluecrop * (Rabbiteye) Premier Climax	ION (American) Early Golden (Oriental) Huchiya Fuyugaki Tamopan Tanenashi	Ramsey (Texas Everbearing) Brown Turkey	e) Lang Li	Florence Dolgo
GRAPES (Bunch)	BLUEBERRIES	PERSIMMON (American) (Oriental)	FIG	JUJUBE (Chinese Date)	CRABAPPLES

^{*}Needs cross pollinator. Those cultivars not marked with an asterisk are self-fertile. **Pollen sterile ***Space does not permit listing of other satisfactory varieties. OSU Extension F-6210 contains additional recommended apple and peach varieties.

The Oklahoma Cooperative Extension Service Bringing the University to You!

The Cooperative Extension Service is the largest, most successful informal educational organization in the world. It is a nationwide system funded and guided by a partnership of federal, state, and local governments that delivers information to help people help themselves through the land-grant university system.

Extension carries out programs in the broad categories of agriculture, natural resources and environment; family and consumer sciences; 4-H and other youth; and community resource development. Extension staff members live and work among the people they serve to help stimulate and educate Americans to plan ahead and cope with their problems.

Some characteristics of the Cooperative Extension system are:

- The federal, state, and local governments cooperatively share in its financial support and program direction.
- It is administered by the land-grant university as designated by the state legislature through an Extension director.
- Extension programs are nonpolitical, objective, and research-based information.

- It provides practical, problem-oriented education for people of all ages. It is designated to take the knowledge of the university to those persons who do not or cannot participate in the formal classroom instruction of the university.
- It utilizes research from university, government, and other sources to help people make their own decisions.
- More than a million volunteers help multiply the impact of the Extension professional staff.
- It dispenses no funds to the public.
- It is not a regulatory agency, but it does inform people of regulations and of their options in meeting them.
- Local programs are developed and carried out in full recognition of national problems and goals.
- The Extension staff educates people through personal contacts, meetings, demonstrations, and the mass media.
- Extension has the built-in flexibility to adjust its programs and subject matter to meet new needs.
 Activities shift from year to year as citizen groups and Extension workers close to the problems advise changes.

The pesticide information presented in this publication was current with federal and state regulations at the time of printing. The user is responsible for determining that the intended use is consistent with the label of the product being used. Use pesticides safely. Read and follow label directions. The information given herein is for educational purposes only. Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by the Cooperative Extension Service is implied.

Oklahoma State University, in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, and Title IX of the Education Amendments of 1972 (Higher Education Act), the Americans with Disabilities Act of 1990, and other federal and state laws and regulations, does not discriminate on the basis of race, color, national origin, genetic information, sex, age, sexual orientation, gender identity, religion, disability, or status as a veteran, in any of its policies, practices or procedures. This provision includes, but is not limited to admissions, employment, financial aid, and educational services. The Director of Equal Opportunity, 408 Whitehurst, OSU, Stillwater, OK 74078-1035; Phone 405-744-5371; email: eeo@okstate.edu has been designated to handle inquiries regarding non-discrimination policies: Director of Equal Opportunity. Any person (student, faculty, or staff) who believes that discriminatory practices have been engaged in based on gender may discuss his or her concerns and file informal or formal complaints of possible violations of Title IX with OSU's Title IX Coordinator 405-744-9154.

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Director of Oklahoma Cooperative Extension Service, Oklahoma State University, Stillwater, Oklahoma. This publication is printed and issued by Oklahoma State University as authorized by the Vice President for Agricultural Programs and has been prepared and distributed at a cost of 42 cents per copy. Revised 1016 GH.