

# Fruit and Nut Review

## BLUEBERRIES

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There are two general types of cultivated blueberries: **highbush and rabbiteye**. The native range of the high bush blueberry extends from Wisconsin eastward to Maine and southward to North Carolina. The rabbiteye is native to the Gulf Coast states and fruits well from eastern North Carolina, southward to central Florida, and westward to eastern Texas and Arkansas.

Rabbiteye blueberries are vigorous and productive throughout Mississippi. Their linear growth may exceed 10 feet. Flowering usually occurs in late February to mid-March. The berries are at first light green, then red (hence the name rabbiteye) and turn light blue when ripe in June or July. The flower buds for the following year form on new growth in late summer and fall. Blueberry bushes are deciduous and lose their leaves in the winter.

### Soil and Climate

The native soil in which blueberries thrive is a moist, well-drained soil rich in organic matter with a pH of 4.5 to 5.5. The closer this combination is duplicated in the home garden, the more vigorous and productive rabbiteye blueberries are. Blueberry roots lack root hairs that are common on most other plants, but the entire root system is fine and fibrous. The root system is confined to the upper 8 to 10 inches of the soil and is a weak competitor for water and nutrients. Weed control is extremely important if plantings are to achieve their potential. Blueberries tolerate partial shade, but full sun is preferred.

### Rabbiteye Varieties

There are many varieties of rabbiteye blueberries. Planting two or more varieties for cross-pollination ensures fruit set and earlier ripening. Blooming intervals of most varieties overlap enough to ensure adequate cross-pollination.

#### EARLY SEASON VARIETIES

**Austin**—Plants are moderately vigorous, productive and upright. Berries are large in size, blue in color, firm, have dry scars, good flavor and good shelf life. Ripens May to early June.

**Brightwell**—Berries are medium in size and blue in color, with small dry scars and good flavor. Plant growth is vigorous, upright and produces enough new canes to renew the plant.

**Climax**—Upright open plants. Berries are large in size, medium-dark blue in color, have a small scar, and good flavor. Concentrated ripening period. Ripens May to early June.

**Premier**—Ripens two to three weeks before Tifblue. Large

fruit with good flavor. Plants are vigorous, upright, disease resistant and productive.

#### MID TO LATE SEASON VARIETIES

**Tifblue**—Bush is vigorous and widely adapted. Fruit is large, round, light blue, sweet, very firm with a small dry scar. Berries appear to be ripe several days before full flavor develops. Berries remain on the plant several days after fully ripe. Most productive of all rabbiteye varieties and is the standard to which rabbiteyes are compared. Ripens early June.

**Powderblue**—Plant is vigorous, disease resistant and productive. Ripens similar to Tifblue with better fruit color and more foliage. Resist cracking in periods of excess rain.

**Centurion**—Ripens later than Tifblue; adds one or more weeks to the rabbiteye ripening season. Plant is vigorous and upright. Fruit has good flavor, not as firm but darker than Tifblue.

**Baldwin**—A productive late ripening variety with good flavor and firm dark blue fruit; has a lengthy ripening period; adapted to pick your own and backyard plantings.

#### SOUTHERN Highbush Varieties

A new category of blueberries has been developed for southern production. These varieties combine the late blooming date and shorter ripening period of the northern highbush and the low chill hours and adaptability to the southern environment of the rabbiteye. This combination results in a blueberry plant that blooms late to escape the possibility of frost damage to the flowers but matures its fruit by mid-May, at least 2 weeks earlier than rabbiteye. Southern highbush varieties include the following:

**Biloxi**—Relatively low chilling variety. Recommended for southern areas of Mississippi. Plants are upright, vigorous and productive. Fruit is medium in size, has good color, flavor and firmness with a small picking scar. Ripens late April. Use Misty as pollinator.

**Bluecrisp**—The flesh of the ripe fruit is so firm it has been described as crunchy. Plant is moderately vigorous, more spreading than upright. Fruit color is light blue, deep dry scar, firm, sweet with a good shelf life. Ripens early May.

**Jubilee**—Upright, vigorous, productive plants. Medium sized fruit with good color, flavor, firmness and small picking scar. Ripens early May.

**Magnolia**—Medium size, productive, vigorous plants with a spreading growth habit. Medium size fruit with good flavor, color, firmness and small picking scar. Ripens early May.

**Misty**—Blossoms and ripens about the same time as Biloxi.

Berries are light in color with a good scar and firmness. Plants are vigorous and upright. Ripens late April. Use Biloxi as pollinator.

**O'Neal**—Ripens early with large, high quality fruit of medium blue color with good picking scar and flavor. Bloom often begins in the fall and continues during warm periods until normal bloom time. Ripens late April to early May.

**Ozarkblue**—Exceptional yields with good fruit size and quality. Recommended for planting in the upper part of the South because it requires a period of 800 to 1000 chill hours. Ozarkblue has consistently fruited in variety trials when most other southern highbush and rabbiteye cultivars have had partial to total crop losses to spring freezes and frost. Pollinate with Summit

**Pearl River**—Vigorous, productive, upright plants. Pearl River is a hybrid of highbush and rabbiteye blueberries. Fruit is firm, medium-sized, good flavor, small scar and somewhat darker than other cultivars. Ripens early May.

**Santa Fe**—Plants are vigorous and upright. Flowers later than rabbiteye and ripens late April in South Mississippi. Fruit is medium sized with excellent scar, flavor and firmness. The color is blue to black-blue. Branches are stout rather than twiggy and easy to prune.

**Southmoon**—Fruit is large, firm, good scar, medium color and good flavor. Bush is vigorous and upright. Ripens late April to early May. Star is a good pollinator.

**Star**—Fruit is large and easy to harvest because of a concentrated ripening period. Fruit has excellent scar, firmness, good color and good flavor. The plant leafs strongly before the first flowers open. The recommended pollinator is Southmoon. Ripens late April to early May.

**Summit**—A mid to late season southern highbush cultivar. Fruit is firm with large and excellent color, flavor and picking scar. Resistant to cracking tearing and stemming. Excellent performance in postharvest studies. Plant is semi-upright with medium vigor. Ozarkblue is a good pollinator.

## Planting

Buy two-year-old plants in time for transplanting during the dormant season, which is usually from early November through February. Place bareroot plants in moist sand or sawdust until they can be planted. Do not allow the roots to dry out. Keep container plants well-watered. Around the home, consider working rabbiteye blueberries into plantings of azaleas, camellias, gardenias, or other acid-loving shrubs. Mix 1/4 to 1/2 bushel of sphagnum peat moss into the soil at each planting hole. Set the plants 1/2 to 1 inch deeper than they grew in the nursery, and cut the plants back to 8 inches above the soil. To conserve moisture and discourage weeds, mulch with pine needles, pine bark, or similar material. If occasional

but temporary flooding or soil saturation will be a problem, ridge the rows or raise the planting site. Plant two or more varieties to ensure cross-pollination and good fruit set.

## Growth and Care

Water thoroughly each week throughout the growing season. Never let the roots dry out. Too much fertilizer damages rabbiteye bushes, especially young, newly established plants. Normally, fertilizer is not applied the first year.

In the second season, apply 2 ounces of a complete acid-forming fertilizer (such as azalea or camellia food) to each plant in early spring, just before flowering. In the third season, double the second-year recommendation. After the third year, increase the amount by 2 ounces per year through the fifth year. After the fifth year, base fertilizer applications on soil analysis. Blueberry soils need a consistent moisture level for a fertilizer program to be effective. A good organic mulch and deep watering are recommended.

## Mulching

Mulch is recommended for acidifying and cooling the soil, conserving soil moisture, and controlling weeds. Provide a deep mulch (approximately 6 inches) and extend it at least 2 feet from the crown of the plant. This is extremely important the first 2 years as the plants are becoming established.

Pine needles, leaves, and grass clippings can be used as mulch. Do not use barnyard manure. If weeds grow through the mulch, remove them (the weeds) by hand.

## Pruning

Rabbiteye blueberry bushes can support and develop heavy crops, so prune lightly. On young plants, remove only low branches on which fruit will touch the soil; thin and top the growing, center branches to keep bushes at a reasonable height for harvesting.

On old plants, thin out the canes to make picking easy. Prune or remove tall shoots and remove old wood with low vigor. Pruning is normally done right after harvest. The next season's crop forms on wood produced in late summer and fall.

## Harvesting

Rabbiteye blueberries begin to ripen in June and are ready for harvesting after they have turned a uniform light blue. Redness indicates the berry is not fully ripe. By planting several varieties, you can extend the harvest season over an 8- to 9-week period. Once the berries begin to ripen, harvest every 5 to 7 days.

Refrigerate harvested berries but don't wash berries until you are ready to use them. Blueberries keep well in the freezer. Rinse frozen berries in cold water just before using.

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