2020

Avery County Cooperative Extension Center Plant Sale Catalog



Avery County Cooperative Extension Center 661 Vale Road Newland, NC 28657 Phone: 828-733-8270 avery.ces.ncsu.edu

<u>2020</u> <u>Avery County Cooperative Extension Center</u> <u>Plant Sale</u>

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Plant Sale General Information



Welcome to the 2020 annual Avery County Cooperative Extension Center Plant Sale. We look forward to providing the community with plants, which keeps Avery County the traditional rural mountain county it has always been. In keeping with that mission, we focus on **Southern Heirloom Apples, Blueberries, and Brambles**. These are the traditional fruits of Avery County and our ancestors. The plants naturally do well in our climate and require a minimum of pesticide input. We are confident they will do well for you. Please utilize the North Carolina Cooperative Extension Service publications to make the most of your plants. These plants should give you many years of traditional fruit for your family. The educational publications are also located on the Avery County Cooperative Extension Center website at:

http://avery.ces.ncsu.edu

Please feel free to contact the Avery County Cooperative Extension Center at 828-733-8270, if you have questions regarding the plant sale information contained here. <u>Payment is expected at the time of ordering.</u> WE DO NOT ACCEPT DEBIT OR CREDIT CARDS.

The staff expects to distribute the plant orders on Thursday-Friday, April 16th and 17th, 2020. Plant orders will be distributed from the Avery County Cooperative Extension Center (Heritage Park Fair Grounds) at 661 Vale Road, Newland, N.C. You will be contacted by phone and/or by email to confirm the pick-up date and time.

Plant orders must be received by **Wednesday, April 8, 2020.** We would like to be able to guarantee that supplies of these varieties will hold out, but we cannot. So, the earlier you place your order, the better.



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We have had a great interest in Heirloom Apples in our area. Through the help of many local folks, we have found a great number of the heirloom apple varieties that have been in Avery County since the early 1800s. Along with history and production help we are able to provide orchard ready trees identical to the historic apples of our ancestors in Avery County.

Most of the apple trees in the sale are grafted onto M-111 semi-dwarf rootstock. Your tree will reach about 15-20 feet in height, and need to be planted 20 feet apart. The apple trees are two years old and will be approximately 4 feet tall at the time of planting.

> M-111 rootstock qualities include: - Good disease resistant - Doing well in a wide range of soil types - Can withstand wet spells and moderate drought conditions fairly well - Will usually produce fruit in 5-6 years (5 years sooner than standard rootstock)

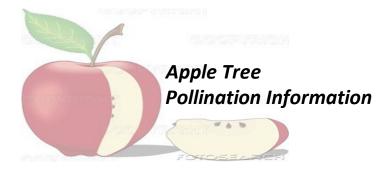
**Honey Crisp (Dwarf) are grown on M111 rootstock with an M-9 interstock to add dwarfing to the tree; requires staking.
**Crimson Crisp are grown on Geneva 935 rootstock and will require staking.

We recognize that many people making purchases, through this plant sale, are home-gardeners/backyard orchardists and are looking for "low input" fruit trees. In order to better facilitate this, we offer many "easy to grow" apple varieties producing good fruit with minimum pesticide use.

You will find a detailed variety of information in the **"Apple Reference Guide"**, to learn about and compare varieties. Please note that this information is based on both solid science and personal observations.



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Pollination is an important topic when growing fruit trees because many, but certainly not all varieties, require pollination from a compatible donor tree before they can bear fruit. Most apple trees need another variety to cross pollinate for optimum fruit production.

Often, the neighbor's apple trees and even seedling apple trees nearby help with this pollination.

A general rule to follow is to plant apple varieties that flower (bloom) at the same time. Some of the varieties that bloom early may stop producing enough pollen when the late blooming varieties start blooming, therefore not enough pollination occurs to produce a good apple crop. Planting an apple tree listed as a late blooming with an apple tree listed as early blooming may not give you satisfactory cross pollination.

We listed the blooming times in our Apple Reference Guide this year to give you the opportunity to choose compatible apple trees in your planting. This is only a general guideline. Blooming times are listed as Early, Early/Mid, Mid, Mid/Late and Late season. Again, expecting an early blooming apple variety and a late blooming variety to pollinate each other will be a mistake. All other combinations should be fine. If you have other apple trees planted on your property within 100-200 feet, they will certainly play into this pollination system

Some apple varieties produce **sterile** pollen. These trees are called **Triploids** and will not pollinate other trees. Triploid trees can be pollinated by other trees and produce wonderful fruit, they just cannot be depended on to pollinate your other trees. We offer three Triploid varieties this year in our plant sale; Summer Rambo, Fall Premium and Winesap Blacktwig, all three trees are excellent apples.

Please contact the Avery County Cooperative Extension Center, if you need help with the bloom times or any additional information on the pre-existing apple trees.



| Apples | Fresh Eating | Sauce/Butter | Baking | Cider | Stores Well | Ripens | Easy to Grow | Bloom Time Season |
|---------------------------|--------------|--------------|--------|-------|----------------|-----------------|--------------------|-------------------------|
| Carolina Red June | F | E | Р | Р | Р | July/ August | E | Early |
| Early Harvest | F | G | Р | Р | Р | July/ August | G | Early |
| William's Favorite | E | F | ? | F | F | July/ August | E | Early/Mid |
| ** Summer Rambo | G | E | ? | F | F | Aug./Sept. | E | Early |
| ** Fall Premium | F | E | Р | F | Р | Sept. | E | Mid/Late |
| Crimson Crisp | E | G | G | G | G | Sept. | G | Mid |
| Honey Crisp | E | G | G | E | G | Sept. | G | Late |
| Hewe's Crab | Р | Р | Р | E | F | Sept. | G | Early |
| Wolf River | Р | E | Р | Р | F | Sept./Oct. | G | Mid |
| Spitzenburg | E | F | E | E | G | Sept./Oct. | F | Mid/Late |
| American Golden Russet | E | Р | E | E | E | October | G | Early/Late |
| Goldrush | E | ? | ? | G | E | October | E | Mid/Late |
| Gragg | F | F | E | F | E | October | E | ? |
| Northern Spy | G | G | Р | E | G | October | G | Late |
| Yellow Bellflower | G | E | E | E | F | October | G | Early/Mid |
| Fallawater | E | G | Р | F | G | October | E | Late |
| Summer Banana | E | F | G | G | G | October | G | Mid/Late |
| ** Winesap Blacktwig | E | F | E | G | G | October | G | Mid |
| Virginia Beauty | E | F | E | Р | E | October | G | Early/Mid |
| Newtown Pippin | E | F | E | G | G | October | F | Mid |
| Swiss Limbertwig | G | Р | E | G | G | October | ? | Early/Mid |

This information was gathered from many sources and should be considered as opinions.• P = PoorF = FairG = GoodE = Excellent• ? Indicates "Unknown"

**Triploid variety – Not a good pollinator! ٠

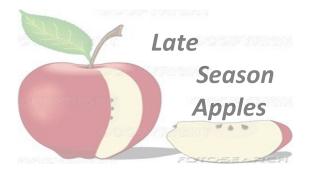


| Name(s) | Time & Place of | Size, Color, | Qualities | Ripens |
|--|---|---|--|----------------------|
| | Origin | Taste & Texture | | |
| Carolina Red June (Blush June, Georgia June, Knight's Red June) | 1800's Tennessee | Small to medium, dark red skin, oblong or conical, fine grained | Unique full-flavored early apple, and multi-purpose | July/August |
| Early Harvest | 1700's Long Island, NY | Medium, pale yellow skin, tender, crisp, juicy, tangy, similar to Transparent but later ripening | Clear sauce apple with sweeter and tangier flavor than Transparent | July/August |
| William's Favorite (Raspberry June) | 1750's Massachusetts | Conical, medium to large, bright red, absolutely beautiful early apple, firm flesh and an easy to grow | Excellent multipurpose apple, with good sweet flavor | July/August |
| Summer Rambo (Summer Rambour, Rambour Franc) | 1600's, France In America from Colonial times, old heritage trees in Avery County | Medium to large, roundish conical oblate apple, skin is mottled with pinkish red and striped, greenish yellow flesh, tender, and very juicy and an easy to grow apple | Gourmet sauce apple, also sweet enough for fresh eating, vigorous dependable producer | August/ September |

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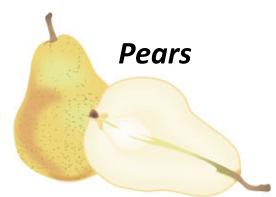
| Name(s) | Time & Place of | Size, Color, | Qualities | Ripens |
|--|--|---|--|-----------------------|
| | Origin | Taste & Texture | | |
| Fall Premium (Bramley Seedling) | Popular apple, found in the Hughes area, likely an English apple | Irregular oblate shape, multi- colored, primarily green with red streaks, complex flavor and easy to grow | A great English cooking apple, tart/sweet cooking and sauce apple | September |
| Crimson Crisp Geneva 935 (Dwarf) | 1995 United States | Small to medium, very bright mid- range red over yellow, extremely crisp, sweet/sharp flavor | Approx. 10 feet tall tree with good cold hardiness, resistance to fireblight, good in storage | September |
| Honey Crisp MINNB42 (Dwarf) | 1960's Minnesota | Medium to large, red variety, sweet, juicy, lightly crisp | Very popular, good in storage with flavor improving for 7-10 days | September |
| Hewe's Crab | 1700's Virginia | Small, green with dull red, firm flesh & acidic | Great cider apple | September |
| Wolf River | 1856 Wisconsin Found along the banks of the Wolf River | Very large, irregular shape, greenish-yellow with splashes and stripes of red | Prized for outstanding applesauce and apple butter | September/ October |
| Spitzenburg | Mid 1700's New York, Thomas Jefferson's favorite apple | Small to medium round/conical, greenish red striped skin, tree grows easily but is difficult to grow clean fruit because of disease susceptibility, But well worth it! | Best tasting apple, with white fine texture flesh, best dessert, apple/great pie apple, keeps shape | September/ October |
| | | | | |



| Name(s) | Time & Place of Origin | Size, Color, Taste & Texture | Qualities | Ripens |
|--|---|---|--|---------|
| American Golden Russet (Bullock Pippin, Rusty Coat) | 1836 New Jersey | Medium uniform, gold russet apple, sweet and acidic | Late ripening, easy to grow, great cider and pie apple | October |
| Gold Rush | 1980's Perdue Research Farm (Parents are Golden Delicious and Red Rome) | Medium, yellow with a round shape, smooth skin, and fine textured flesh | Dessert apple, sweet but complex flavor, good for fresh eating, pies and cider, bears young and heavily, high disease resistant, very easy to grow and stores well | October |
| Gragg | 1860 Caldwell County, NC, by James Gragg | Medium to large, oblate shape, greenish-yellow skin w/ dark and bright red stripes, greenish flesh is juicy | Excellent keeper, good cooking apple and fine pie apple | October |
| Northern Spy | 1800's East Bloomfield, N.Y. | Large, roundish, sometimes oblong, thick skin, greenish or yellow with light and dark red stripes, fine grained, tender, juicy, crisp aromatic, and spicy sub-acid | Excellent keeper, excellent for cooking, blooms about two weeks later the most apples | October |
| Yellow Bellflower | 1800's New Jersey | Large to medium, lemon yellow skin with some red- orange blushing on the side, yellowish- white flesh is firm, crisp, juicy and aromatic | Good eating and cooking apple, flavor improves with storage | October |



| Name(s) | Time & Place of | Size, Color, | Qualities | Ripens |
|--|---|--|--|---------|
| | Origin | Taste & Texture | | |
| Fallawater (Mountain Pipper, Molly Whopper) | 1842 Bucks County, PA | Large to very large, round to oblate, tough skin that is dull, dirty green with dull red or bronze shades and easy to grow | Very mild sweet flavor, tender, juicy flesh, great fresh eating and sauce making | October |
| Summer Banana | 1900 Marion County, South Carolina when trademarked by J. Van Lindley Nursery in Greensboro | Medium, round conical, deep yellow skin with red spots and rough skin, stores well, and is a quick bearing apple | Very sweet, course grained, apple for fresh eating and excellent sauce | October |
| Winesap Blacktwig (Blacktwig, Paragon) | 1842 Arkansas (known to be a seedling from a Winesap) | Large, conical shape, yellowish skin covered with dark red dots and dark red stripes, firm and juicy flesh | Actually, quite sweet, and sweeter still when stored a couple of months, fine keeping abilities and known as an incredibly good pie apple | October |
| Virginia Beauty | 1810 Zach Safewright, of the Piper's Gap Community of Carroll County, VA | Medium to large, conical, smooth, dark red or purplish skin, fine grained and tender flesh | Classic mountain eating apple, mellow sweet floral flavor and a fine pie apple | October |
| Newtown Pippin (Southern Golden Pippin, Albemarle Pippin) | 1666, Newtown, New York, popularized by Thomas Jefferson in Virginia in the early 1800's | Large apple, yellow in color with hints of pink at the stem end, yellowish flesh is firm, crisp, and very aromatic | Complex sweet flavor, excellent fresh eating apple, and a very good pie apple | October |
| Swiss Limbertwig | 1700's Grown by Swiss settlers in the Cumberland Mtns. | Medium size, square compact apple, skin is somewhat russeted/to touch, mottled greenish maroon with bronze blushes | Very unusual sweet flavor, with tones of citrus, high cider potential | October |



In the Fall of 2006, we searched Avery County for Historical Apples. In the process, we ran upon some oldfashioned pears. We were able to secure a variety called **Seckel pear**, or locally known as the **Honey pear**. Thomas Jefferson wrote of this pear extensively in his writings.

The two pear varieties do not require each other for pollination but will benefit from planting the two together. Pear trees available are grafted onto standard size rootstock, "OHxF97" and should reach 15/20 feet in height at maturity and need to be planted a minimum of 15 feet apart. These pear trees are 5/8-inch diameter and will arrive 4-5 feet tall.

| Name(s) | Time & Place of Origin | Size, Color, Taste & Texture | Qualities | Ripens |
|------------------------|---|--|--|----------------|
| Seckel (Honey Pear) | Heirloom pear from France, first grown at Monticello, vigorous and productive, known for extraordinary flavor | Small, reddish- brown skin, very sweet, juicy, aromatic dessert pear for fresh eating | Self-pollinating tolerant of fire blight, fresh eating, but not a good keeper | Late September |
| Harrow Sweet | A late season pear developed from a Bartlett in Ontario, Canada | Similar to a Bartlett with a pink blush, medium to large sweet pear, developed for short term storage, canning or freezing | Self-pollinating and a good resistance to fire blight, and often begins bearing in 3 years | Late September |

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The PawPaw tree (Asimina trilobal) is a native fruit-bearing tree that grows in the eastern United States, from Canada to Florida, and as far west as Nebraska. The Pawpaw fruit resembles a green mango and the flavor is sometimes described as a cross between a banana, pineapple and mango.

NOTE DO NOT EAT SKIN AND SEEDS!!!

PawPaws have gained popularity because of their nutritional value and because the leaves, bark and twigs produce anti-cancer and insecticidal compounds called acetogenins. The fruits ripen between late August and October. In the fall, pawpaw leaves turn golden yellow and do not drop quickly.

Pawpaw trees are considered an understory tree and reach heights of 25-30' tall. The flowers are self-incompatible, meaning they require pollen from a different cultivar to be properly fertilized therefore requiring 2 or more varieties planted.

| Name(s) | Time & Place of Origin | Size, Color, Taste & Texture | Qualities | Ripens |
|---------------------------------------|------------------------------------|--|--|----------------------------|
| Lehman's Chiffon (Grafted Variety) | Native to Eastern United States | Flavor described as cross between a banana, pineapple and mango | Nutritious and can be eaten plain or in desserts | Late August and October |



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Blueberries, of course, do very well in our area. Our acidic soils are their natural home. However, care should be taken to soil sample if bushes are to be planted in a yard or garden, where lime has been applied and pH may have been raised significantly.

Blueberries are not very good self-pollinators. They will produce much better if two or more varieties are planted together.

Plants should be spaced at least 5 feet apart, and fertilized only lightly the first 2-3 years. Plants will take 3-5 years to begin producing large yields. Pick berries off the first 3 years to allow the bush to grow. All varieties offered here will reach 4-6 feet at maturity. More details are available in the North Carolina Cooperative Extension Service publications.

| All these varieties have may | v eventually | produce 10 | pounds or more p | er bush. |
|------------------------------|--------------|------------|------------------|-----------|
| | y ovornaany | | poundo or more p | or buorr. |

| Name(s) | Time & Place of Origin | Size, Color, Taste & Texture | Qualities | Ripens |
|-----------|--|--|---|-------------------------|
| Blue Crop | Upright vigorous productive bush, very cold hardy and drought tolerant | Large, firm berry, good flavor and loose fruit clusters | Ripens early–mid season | July |
| Blue Ray | Upright spreading, vigorous, productive and cold hardy ornamental | Large, firm, sweet berry, with large tight clusters | Ripens early–mid season | July |
| Patriot | Upright spreading growth habit with good ornamental and cold hardiness | Medium to large fruit in tight clusters; Patriot can tolerate wetter soil sites | Ripens in early to late season, allow to ripen for a few weeks before picking | July thru August |
| Jersey | Upright vigorous growth and very cold hardy | Medium to large, strongly flavored berry and long loose clusters | Ripens late in season, and picked out for its intense flavor | August and September |



Strawberry plants are best grown in a matted row type planting. This requires planting them approximately 18-24 inches apart; in rows at least three feet apart. In our area, full fruit production is completed the second year. After the third year, it is recommended that the strawberry patch be re-planted. Strawberry plants are self-pollinating and therefore do not require multiple varieties.

Successful strawberry production requires close attention to planting, weeding, fertilization and **winter mulching is most important.** Recommendations are all available in the North Carolina Cooperative Extension Service publications

| Name(s) | Time & Place of | Size, Color, | Qualities | Ripens |
|-----------|--|---|---|------------------|
| | Origin | Taste & Texture | | |
| Earliglow | A wonderful heirloom flavor is this variety's trademark, best early season variety around, and excellent for fresh eating and freezing | Uniform color, tough glossy skin, firm flesh, medium size (size tends to decrease as the season progresses), and excellent freezer | Good resistance to red stele root rot and intermediate resistance to Verticillium wilt | June |
| Jewel | Grows well in different locations and moderate winter hardiness | #1 mid-season variety, with consistent productivity, and excellent freezer | Firm, sweet flavored berries | Late June-July |
| Albion | A great ever- bearing berry (often bears fruit 12-14 weeks after planting) | Large to VL, very firm, conical berries | Excellent flavor for an ever- bearing variety | June thru August |

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Raspberries and Blackberries

Raspberries and Blackberries should both be planted in rows approximately 4 feet apart. The spacing between plants and need for trellising, depends upon the variety chosen. **These berries are self-pollinating and therefore do not require multiple varieties.** All these raspberries can be grown for home garden use with little if any trellising if managed properly. Ask your County Agent.

Due to many natural occurring brambles in our area, disease problems are common in domestic plantings, but can be controlled effectively. Details regarding planting and managing raspberries and blackberries are available in the North Carolina Cooperative Extension Service publications.

| Name(s) | Time & Place of | Size, Color, Taste & Texture | Qualities | Ripens |
|---------|---|--|--|-----------------|
| Nova | Origin Summer bearing Red Raspberry | Medium to large berry, firm bright red with superb flavor | Nearly thornless, vigorous with upright habit | July |
| Prelude | Ever bearing Red Raspberry advertised as an excellent raspberry with both a spring and fall crop | Medium to large roundish berries, excellent sweet flavor, and good freezer | One or the earliest red raspberries to ripen in June, followed by another crop in August thru September | June and August |
| Jewel | Black Raspberry | Glossy black, large size, with a rich raspberry flavor | Excellent for jams and jellies, very popular variety, excellent yields of berries on winter hardy canes | July |
| Chester | Thornless Blackberry | Large, very flavorful, an excellent quality fruit | Semi-erect thornless canes, thornless blackberries, needs sheltered from cold winter winds | August |





Grapes do very well in our area and are a traditional favorite. Grapes are considered somewhat self-fruiting, **but will do better when planted in pairs of different varieties.**

Grapes do take some work with trellising, regular fertilizing, and annual pruning. Each grape vine will produce a vine 20-40 feet long, and will need to be set in rows at least 6 feet apart. Our grapes vines are two-year-old vines, Graded #1, with an excellent root system. Details on grape production are available in the North Carolina Cooperative Extension Service publications.

| Name(s) | Time & Place of Origin | Size, Color, Taste & Texture | Qualities | Ripens |
|--------------------------------------|--|--|---|---|
| Concord | Developed over 150 years ago | Still sets the standard for jelly and juice making | Seeded grape, very hardy, high vigor, and disease resistance | Late September, becoming sweeter with October frosts |
| Niagara | Niagara County, New York | Multi-purpose grape, good for fresh eating, jelly and juice | Seeded grape, with outstanding hardiness, vigor and disease resistance | Late September October |
| Buffalo | 1938 Cornell University | Medium size, reddish black, very sweet | Very adaptable to a diversity of sites, early ripening grape, recognized as the sweetest of its season | September |
| Captivator or Pink Sugar Grape | We believe this is our "Pink Sugar Grape" based on local testing | Multi-purpose, sweet pink grape, good for fresh eating, jelly, and juice | Seeded grape, very hardy, high vigor, and shows signs of disease resistance | September |

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Asparagus and Rhubarb

Asparagus does well in our area. They need to be planted in beds of at least 25 plants. The asparagus come as one-year-old, large graded crowns. Asparagus need to be spaced in shallow trenches, approximately every 18 inches, in rows 3-4 feet apart. They require 2-3 years to begin producing fully.

Rhubarb is a traditional favorite in our area and easy to grow. It needs to be planted in very well-drained ground, approximately 3 feet apart, with the top of the root division level with the soil surface. **Find a well-drained area and do not plant too deep!** With liberal fertilizing the plants should become established, and will begin to produce well in 2-3 years.

| Name(s) | Time & Place of Origin | Size, Color, Taste & Texture | Qualities | Ripens |
|----------------------------|---|---------------------------------|--|---|
| Jersey Knight Asparagus | Most popular variety from the New Jersey Breeding Program | Large, succulent spears | Tolerant to heavy soils | Resistant to rust, crown rot and fusarium |
| MacDonald Rhubarb | Excellent production characteristics | Vigorous, and upright growing | Large, tender stalks, with acceptable red color | Resistance to root rot problems |

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