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2018 Tree Seedlings Index



| Pennsylvania Game Commission Species | Seedling Sizes (average) | PA Native | Benefits | | | | | | | | | | Site Preferences | | | Seed Production Age (years) | Mature Height (feet) | Information & Resources Description |
|--------------------------------------|--------------------------|-----------|----------|------|--------|--------|-----------|------------|------------|-------------------|--------------|--------------------|------------------|---------------|--|-----------------------------|----------------------|-------------------------------------|
| | | | Deer | Bear | Turkey | Grouse | Wood-cock | Song-birds | Wood-ducks | Red/Gray Squirrel | Winter Cover | Riparian / Wetland | Shade Tolerance | Soil Moisture | | | | |

EVERGREENS <http://www.pgc.pa.gov/pages/search.aspx>

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|--|-----------------|-----|---|---|---|---|--|---|--|---|---|---|--|--|--|--|--------|------|---------|---------|--|
| White Spruce <i>(Picea glauca)</i> | 4" - 12" (8") | No | | | | | | * | | * | * | | | | | | ☀️ - ● | 💧💧 | 10 - 15 | 60 | A long-lived, slow growing light bluish green spruce. Retains lower branches and grows in dense pyramids. Very tolerant of heat, cold, drought and crowding. Does well in full sun but will tolerate shade. Very resistant to deer browsing. |
| Red Pine <i>(Pinus resinosa)</i> | 24" - 30" (26") | Yes | * | | | | | * | | * | * | | | | | | ☀️ | 💧💧 | 15 - 25 | 75 | Long needled pine with reddish brown bark and long straight trunks. Tolerates ordinary to poor soils, and does well on exposed, dry, acid, sandy and gravelly soils. Prefers full sunlight and does best in colder climates. |
| Eastern White Pine <i>(Pinus strobus)</i> | 24" - 30" (26") | Yes | * | * | * | * | | * | | * | * | * | | | | | ☀️ - ○ | 💧💧💧 | 15 - 30 | 100 + | Large, fast growing, pine. Prefers fertile, moist, well-drained soils but tolerates wet, swampy areas or dry, rocky ridges. Provides cover for wildlife, such as grouse, in dense, mass plantings. Mature stands are good roosting sites for wild turkey. |
| Arborvitae / Northern White Cedar <i>(Thuja occidentalis)</i> | 4" - 8" (6") | No | * | | | | | * | | | | * | | | | | ☀️ - ● | 💧 | 10 - 15 | 25 - 50 | Dense pyramid shape with multiple stems, tolerates shearing. Retains limbs and foliage to ground level and provides nesting and roosting habitat for doves and many songbirds. Prefers moist well-drained soils but tolerates poor, rocky, clay and compacted soils. |
| Eastern Hemlock <i>(Tsuga canadensis)</i> | 6" - 10" (8") | Yes | * | | * | * | | * | | * | * | * | | | | | ● - ● | 💧💧💧💧 | 15 - 20 | 70 | The state tree of Pennsylvania. Prefers partial to full shade until established. Tolerates well drained to wet soils with lots of organic matter. Large, thick plantings provide winter thermal cover / roost sites for many species. |

SHRUBS


| | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|-----|---|--|---|---|---|---|---|---|---|---|--|--|--|--|--------|------|---------|--------|---|
| Speckled Alder <i>(Alnus incana)</i> | 4" - 6" (4") | Yes | | | | * | * | | | | | * | | | | | ☀️ - ○ | 💧💧💧💧 | 10 - 25 | 15 | A thicket forming tall shrub that improves streambanks, wetlands, and poorly drained soil by fixing nitrogen. Used by beaver, muskrats, rabbits, and hares. Crucial component of quality grouse and woodcock habitat. |
| Paw-Paw <i>(Asimina triloba)</i> | 6" - 12" (8") | Yes | * | | | | | | | | * | | | | | | ☀️ - ○ | 💧💧 | 5 - 10 | 5 - 15 | Large shrub or small tree often forming thickets. Edible fruit with sweet banana-like flavor and soft texture. Found in rich mesic soils in hardwood forests and bottomlands mostly in south eastern PA. |
| Buttonbush <i>(Cephalanthus occidentalis)</i> | 4" - 8" (6") | Yes | * | | | | | * | | | | * | | | | | ☀️ - ○ | 💧💧 | 5 - 10 | 5 - 10 | A native wetland area shrub that is valuable to waterfowl. Will grow in shallow standing water. Fruit is a round nutlet that ripens to brown. |
| Silky Dogwood <i>(Cornus amomum)</i> | 2" - 24" (10") | Yes | | | * | * | * | * | * | * | | * | | | | | ☀️ - ○ | 💧💧💧💧 | 4 - 10 | 5 - 10 | Native shrub with white flower clusters and porcelain blue and white 1/4 inch fruits. Bark of young shoots stays scarlet red thru winter. Tolerates wet to well-drained sites. Good for wildlife food, cover and as a shrub border. |
| Graystem Dogwood <i>(Cornus racemosa)</i> | 6" - 24" (12") | Yes | | | | * | * | * | | | | * | | | | | ☀️ - ○ | 💧💧💧💧 | 5 - 10 | 3 - 10 | Thicket-forming shrub with creamy white clusters of flowers; white round fruits. Tolerates full sun to partial shade and moist lowland areas or dry upland sites. Important cover and food for a variety of wildlife. |
| Winterberry <i>(Ilex verticillata)</i> | 2" - 6" (4") | Yes | | | * | * | | * | | | * | | | | | | ☀️ | 💧 | 5 - 12 | 3 - 10 | Native shrub most common on wet soils but can grow on moist, cool upland soils. Both male and female plants so plant in clusters of 5 or more. Inconspicuous greenish or yellowish white flowers are attractive to bees. Persistent bright red berry-like fruits are best seen after leaf fall. |



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|--|---|-------------|-----------|-----------|---|--------|--------|--------|--------|---|--|---|
| Pennsylvania Game Commission | https://www.pgc.pa.gov | Hunt & Trap | Wildlife | Education | Numerous large clusters of white flowers in early summer followed by purplish-black fruits in late summer. An important food source for birds, 120+ species eat the fruit. Useful for accent plants, shrub borders and clump plantings. | | | | | | | |
| Common Elderberry (<i>Sambucus racemosa</i>) | 10" - 12" (10") | Yes | ★ ★ ★ ★ ★ | ★ | ★ | ☀️ - 🌑 | 💧 💧 💧 | 4 - 6 | 6 - 12 | | | |
| Red Elderberry (<i>Sambucus racemosa</i>) | 6" - 10" (8") | Yes | ★ ★ ★ ★ ★ | ★ | ★ | ☀️ - 🌑 | 💧 💧 💧 | 4 - 6 | 6 - 10 | Most common to cool, moist, rock wooded area and ravines. Numerous large clusters of creamy white flowers in April/May. Clusters of bright red berry-like fruits in June are highly sought after by song birds. | | |
| Nannyberry Viburnum (<i>Viburnum lentago</i>) | 6" - 10" (8") | Yes | | ★ ★ | ★ | ★ | ☀️ - 🌑 | 💧 💧 | 5 - 8 | 10 - 18 | Native large shrub or small tree with flattened oblong berry-like drupes that ripen to blue-black. Edible fruits are a fall / early winter food source for many species of birds and mammals. Excellent for tall border plantings and hedgerows. | |
| American Highbush Cranberry (<i>Viburnum trilobum</i>) | 4" - 6" (4") | Yes | ★ | | ★ | ★ | ★ | ☀️ - 🌑 | 💧 💧 💧 | 5 - 10 | 6 - 12 | Medium to large, multi-stemmed shrub with oblong red berry-like drupes which persist through late winter and serve as winter survival food for many birds. Considered rare in Pennsylvania. Excellent for riparian plantings. |

TREES

| | | | | | | | | | | | | | |
|--|----------------|-----|-----|-----|-----|-----|-----|--|--------|-------|---------|---------|--|
| Flowering Dogwood (<i>Cornus florida</i>) | 4" - 8" (6") | Yes | ★ | ★ ★ | ★ | ★ | ★ | | ☀️ - 🌑 | 💧 | 6 - 10 | 10 - 20 | Large white bracts that resemble flowers, followed by clusters of bright red fruit highly sought after by birds and squirrels because of their high fat and calcium content. Grows well in average to rich, well-drained soil and tolerates full sun to full shade. |
| Washington Hawthorn (<i>Crataegus phaenopyrum</i>) | 6" - 12" (10") | No | ★ | | ★ ★ | ★ | ★ | | ☀️ - 🌑 | 💧 💧 | 10 - 15 | 25 - 30 | A small tree with clusters of small white flowers and bright scarlet-orange fruits that persist into late winter. Excellent as a screen, border, hedge or block planting. Plant in open clearings or along woodland edges in any soil type. |
| American Sweet Crabapple (<i>Malus coronaria</i>) | 2" - 6" (4") | Yes | ★ ★ | ★ ★ | ★ | ★ | ★ | | ☀️ - 🌑 | 💧 💧 | 6 - 12 | 15 - 20 | Common to old fields, pastures, woodland edges and woodland openings, can form dense thickets. Small greenish yellow apples that mature in late August and last through October are utilized by many species of wildlife especially deer. Prefers full sun but can tolerate partial shade. |
| Assorted Flowering Crabapple (<i>Malus spp.</i>) | 6" - 24" (14") | No | ★ ★ | ★ ★ | ★ | ★ | ★ | | ☀️ - 🌑 | 💧 💧 | 5 - 10 | 8 - 20 | A mixture of flowering crabapples. Small, non-native trees start yielding fruits in 5-6 years. White to pink flowers produce small red fruits used by many species of wildlife. Plant in partial shade to full sun along woodland borders and openings, in hedgerows, block plantings and as small groups adjacent to thermal cover. |
| Standard Apple (<i>Malus pumila</i>) | 4" - 8" (6") | No | ★ ★ | ★ ★ | ★ | ★ | ★ | | ☀️ | 💧 | 8 - 12 | 20 - 30 | We collect seed from established standard sized apple trees that are late bearing. Seedlings are a mixture of yellow and red delicious, northern spy, wine sap, Jonathon, McIntosh, Cortland and Rome as well as a few unidentified varieties that are noted heavy producers. |
| Red Mulberry (<i>Morus rubra</i>) | 4" - 6" (4") | Yes | ★ ★ | ★ ★ | ★ ★ | ★ ★ | ★ ★ | | ☀️ - 🌑 | 💧 💧 💧 | 5 - 10 | 30 - 50 | Fast growing tree with a broad spreading crown producing abundant, deep red fruit that ripens over mid-summer. Birds and bear eat the fruit, deer love to browse on twigs and leaves. Prefers rich, moist alluvial soils and wooded slopes. |

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