Kansas Forest Service offers low-cost tree and shrub seedlings for conservation plantings. These plants are 1 to 2 years old and vary from 8 to 36 inches tall, depending on species. Seedlings are sold in units of 25. Bundles and other items must be ordered in whole units. Orders for partial or mixed units will not be accepted. These seedlings are intended for conservation use only and may not be used for landscape plantings or resold as live plants.

**Conservation Uses**
- Windbreaks
- Woodlots
- Riparian plantings
- Wildlife habitat
- Christmas trees
- Education

**Spring Ordering Season**
Spring orders begin December 1 and end on May 1. Order early to get the items you want! Spring order shipments begin in mid-March (weather permitting) and end May 1.

**Fall Ordering Season**
Fall orders begin September 1 and end on October 15. Only selected species of container-grown plants are available.
The final day to ship is October 15.

**Place an Order**
Call the Kansas Forest Service at 1-888-740-8733 or go online at [kansasforests.org](http://kansasforests.org).

**Delivery Information**

**Ship orders:** Use a complete, physical address. A P.O. Box will not be accepted as a shipping address. The Kansas Forest Service will not be responsible for delivery to inaccurate or incomplete addresses.

**Pickup orders:** Check the “pickup” box online or on the order form if you wish to pick up your order at Kansas Forest Service, 2610 Claflin Road, Manhattan.

**Container-Grown vs. Bare-Root Seedlings**
Container-grown seedlings are grown in individual 2-inch by 7-inch containers filled with a greenhouse potting mix. Container-grown seedlings have an intact root system and come in the original container. The advantages of container-grown seedlings compared with bare-root seedlings are:
- Improved survival and first-year rate of growth under most conditions.
- Extended spring planting season.
- Greater flexibility in scheduling tree planting around soil conditions, weather conditions, and work schedule.
- Easier to plant properly.

Bare-root seedlings are grown 1 to 2 years in a field nursery, then lifted and shipped without soil on the roots.

**Claims and Returns**
**All sales are final.** No guarantee of survival after shipment or delivery is made. The plants are guaranteed to be the species and quantities ordered, healthy, and capable of growing. Claims must be made within 7 days of receiving plants. No refunds less than $20. The Kansas Forest Service does not warranty the survival of the plants and is not responsible for economic loss by the customer.

To check availability and place your order online, go to [kansasforests.org](http://kansasforests.org)

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5/2022
**SHRUBS**

**American Plum**
- Height: 6-12’
- Soil: moist.
- Adapted statewide.
- Full sun to partial shade.
- Rapid growth rate.
- Edible fruit, often used for wildlife habitat, erosion control, and windbreaks.

**Buttonbush**
- Height: 8-15’
- Soil: wet to moist.
- Adapted statewide.
- Full sun to partial shade.
- Rapid growth in moist soils.
- Used for wildlife and riparian plantings.

**Chokecherry**
- Height: 6-10’
- Soil: moist to well-drained.
- Adapted statewide.
- Full sun to partial shade.
- Rapid growth rate.
- Edible fruit, often used for wildlife habitat, erosion control, and windbreaks.

**Common Ninebark**
- Height: 4-8’, Spread: 4-8’
- Soil: dry, sandy soils or heavy clays.
- Used in windbreaks.
- Useful to control erosion on streambanks.

**Elderberry**
- Height: 6-10’
- Soil: moist to well-drained.
- Adapted to eastern two thirds of Kansas.
- Full sun to partial shade.
- Rapid growth rate.
- Edible fruit, often used for wildlife habitat and human consumption.

**False Indigo**
- Height: 6-12’
- Soil: Adapted to most soil types. Tolerant of higher pH soil and periods of drought.
- Slow growth rate at 6” or less a year. Used for riparian plantings and wildlife.
- Excellent pollinator plant.

**Key**
- **Indicates plant species of particular importance for supporting butterflies, moths, bees or other insect pollinators as nectar sources or larval host plants.**
- **Produces edible fruits or nuts.**
- **Non-native to the United States. Should not be used in wetland or stream mitigation practices.**

**NON-PLANT ITEMS**

**Marking Flags**
- 100 plastic flags on a 30” wire stake for marking locations of seedlings.

**Rabbit Protective Tubes**
- 25 mesh tubes that are 18” tall with 25 bamboo stakes.

**Root Protective Slurry**
- 8 ounces of water-absorbing polymer to protect roots from drying.
- Treats approximately 300 seedlings.

**Tree Tubes - 5’**
- Five polyethylene tubes with five oak stakes used for protection from deer and other wildlife.

**Weed Barrier Fabric and Pins**
- 25 pieces of 4’ x 4’ polypropylene fabric, guaranteed for five years with 125 pins. Used to conserve moisture and control weeds. Extra pins can be ordered.

**Weed Barrier Pins Only**
- 125 pins, 11 gauge wire, 10” x 2”.

**STRATIFIED SEED**

**Black Walnut**
- Contains 100 stratified black walnut seeds.*

**Pecan**
- Contains 100 stratified pecan seeds.*

*Stratified seeds are treated to enhance germination. Most of the seed will germinate during the first growing season. A few may remain dormant until the following spring.

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- Used for wildlife and riparian plantings.
- Tolerant of some drought once established.

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**Photo: Dave Powell, USDA Forest Service Bugwood.org**

**Photo: Dow Gardens, Bugwood.org**

**Photo: Leslie J. Mehrhoff, University of Connecticut, Bugwood.org**

**Photo: Dow Gardens, Bugwood.org**

**Photo: Leslie J. Mehrhoff, University of Connecticut, Bugwood.org**
**FRAGRANT SUMAC**
Height: 3-8’
Soil: well-drained to dry.
Adapted statewide.
Full sun to full shade.
Moderate growth rate.
Excellent for wildlife habitat and is drought tolerant.

**GOLDEN CURRANT**
Height: 3-5’
Soil: well-drained to dry soils.
Adapted statewide.
Full sun to partial shade.
Moderate growth rate.
Excellent for wildlife habitat and drought tolerant.

**LILAC**
Height: 8-12’
Soil: well-drained.
Adapted statewide.
Full sun to partial shade.
Moderate growth rate.
Used in windbreaks and for wildlife habitat.
Very drought tolerant.

**PEKING COTONEASTER**
Height: 5-7’
Soil: Well drained, loose, moist fertile soils.
Adapted statewide.
Slow initial growth rate.
Provides ground-level wind protection in windbreaks as an exterior row.

**SAND HILL PLUM**
Height: 3-8’
Soil: Well-drained to moderately dry.
Adapted statewide.
Full sun to partial shade.
Rapid growth rate. Edible fruit.
Excellent wildlife habitat.

**SERVICEBERRY**
Height: 15-20’
Soil: moist to well-drained.
Adapted to eastern third of Kansas.
Full sun to partial shade.
Moderate growth rate.
Excellent wildlife habitat.
Edible fruit.

**SPICEBUSH**
Height: 6-12’
Soil: Moist, tolerant of varying pH levels.
Adapted to the eastern third of the state. Slow growing shrub that prefers partially shaded areas with adequate moisture.
Not drought tolerant. Excellent for wildlife habitat.

**Photo**: Vern Wilkins, Indiana University, Bugwood.org

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**BUNDLES**

**Eastern Pollinator Bundle**
Contains seven tree/shrub species suitable for planting in eastern Kansas including: five American plum, five chokecherry, five golden currant, three false indigo, five elderberry, three buttonbush, and four eastern redbud.

**Western Pollinator Bundle**
Contains five species suitable for planting in western Kansas. The species in this bundle have exceptional drought tolerance and can handle the dry conditions in the western part of the state. The bundle includes five Sandhill plum, five chokecherry, five golden currant, five false indigo, and five fragrant sumac.

**Pheasant Bundle**
Contains 25 each sandhill plum, fragrant sumac, golden currant, and chokecherry.

**Quail Bundle**
Contains 25 each American plum, fragrant sumac, golden currant, and chokecherry.
<table>
<thead>
<tr>
<th>Tree Type</th>
<th>Height</th>
<th>Soil</th>
<th>Adaptation</th>
<th>Sunlight</th>
<th>Growth Rate</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baldcypress</td>
<td>60-100’</td>
<td>Wet to moderately dry</td>
<td>Eastern half of Kansas</td>
<td>Full sun to partial shade</td>
<td>Moderate</td>
<td>Streambank and wildlife habitat</td>
</tr>
<tr>
<td>Black Cherry</td>
<td>50-60’</td>
<td>Moist, well-drained</td>
<td>Eastern third of Kansas</td>
<td>Full sun</td>
<td>Fast growing – 2 to 4 feet a year when established</td>
<td>Wildlife and timber</td>
</tr>
<tr>
<td>Black Oak</td>
<td>50-60’</td>
<td>Deep fertile, well-drained</td>
<td>Eastern third of Kansas</td>
<td>Full sun</td>
<td>Slow to moderate growth rate</td>
<td>Wildlife, windbreaks</td>
</tr>
<tr>
<td>Black Walnut</td>
<td>50-90’</td>
<td>Deep, moist, well-drained</td>
<td>Statewide</td>
<td>Full sun</td>
<td>Moderate growth rate</td>
<td>Timber, firewood, wildlife habitat</td>
</tr>
<tr>
<td>Bur Oak</td>
<td>50-80’</td>
<td>Moist to dry</td>
<td>Statewide</td>
<td>Full sun</td>
<td>Slow to moderate growth rate</td>
<td>Windbreaks, timber production, wildlife habitats</td>
</tr>
<tr>
<td>Cherrybark Oak</td>
<td>50-60’</td>
<td>Deep, fertile well-drained</td>
<td>Southeastern Kansas</td>
<td>Full sun</td>
<td>Relatively quick growing</td>
<td>Windbreaks, timber, wildlife and as firewood</td>
</tr>
<tr>
<td>Chinkapin Oak</td>
<td>30-60’</td>
<td>Well-drained to moderately dry</td>
<td>Statewide</td>
<td>Full sun</td>
<td>Slow to moderate growth rate</td>
<td>Wildlife habitat</td>
</tr>
<tr>
<td>Cottonwood</td>
<td>70-100’</td>
<td>Wet to well-drained</td>
<td>Statewide</td>
<td>Full sun to partial shade</td>
<td>Rapid growth rate</td>
<td>Windbreaks, streambank stabilization, timber, and firewood</td>
</tr>
<tr>
<td>Hackberry</td>
<td>45-70’</td>
<td>Moist to well-drained</td>
<td>Statewide</td>
<td>Full sun</td>
<td>Moderate growth rate</td>
<td>Windbreaks, wildlife habitat, timber production</td>
</tr>
</tbody>
</table>
# DECIDUOUS TREES

## Lacebark Elm**
- **Height:** 30-35’
- **Soil:** moderate to dry. Adapted statewide.
- **Full sun.**
- **Rapid growth rate.** Used in windbreaks. Drought-tolerant and resistant to elm leaf beetle and Dutch elm disease.

## Northern Red Oak
- **Height:** 50-70’
- **Soil:** moist, well-drained. Adapted to eastern half of Kansas.
- **Full sun.** Moderate growth rate. Used for timber, wildlife, firewood, and windbreaks.

## Osage Orange
- **Height:** 20-40’
- **Soil:** Moist soil preferred, but can do well on droughty, alkaline soils. Adapted statewide. Timber is used for fence posts and firewood. Also used in windbreaks.

## Pawpaw
- **Height:** 15-30’
- **Soil:** moist, well-drained. Adapted to eastern third of Kansas.
- **Prefers partial shade.** Slow growth rate. Used for wildlife. Edible fruit.

## Pecan
- **Height:** 80-100’
- **Soil:** moist, well-drained. Adapted to eastern half of Kansas.
- **Full sun.** Rapid growth rate. Produces nuts, timber, and wildlife habitat.

## Persimmon
- **Height:** 20-30’
- **Soil:** moist to dry. Adapted to eastern half of Kansas.
- **Full sun to partial shade.** Slow growth rate. Used for wildlife habitat. Edible fruit.

## Pin Oak
- **Height:** 70-90’
- **Soil:** moist, well drained. Adapted to eastern half of Kansas. Moderate growth rate. Used in windbreaks and acorns provide food for wildlife and timber. Native to Kansas.

## Red Mulberry
- **Height:** 30-50’
- **Soil:** moist to well-drained. Adapted statewide.
- **Full sun to partial sun.** Moderate growth rate. Used for windbreaks, wildlife habitat, and firewood. Edible fruit.

## Shellbark Hickory
- **Height:** 65-100’
- **Soil:** Deep, fertile bottomland soils. Tolerates wet soils and clay. Adapted to eastern third of Kansas. Valued as a timber species with highly prized nuts. Nuts also provide wildlife food source.
**Shumard Oak**
Height: 60-80'
Soil: moist, well-drained. Tolerates clay soils.
Adapted statewide. Full sun.
Moderate growth rate.
Used for wildlife habitat and streambank stabilization.

**Redbud**
Height: 10-20'
Soil: moist, well-drained.
Adapted to eastern two thirds of Kansas.
Full sun to partial shade.
Moderate growth rate.
Used in windbreaks. Profusion of bright pink flowers.

**Silver Maple**
Height: 70-80'
Soil: moist.
Adapted to eastern half of Kansas.
Full sun to partial shade.
Rapid growth rate.
Used for firewood and streambank stabilization.

**Swamp White Oak**
Height: 40-60'
Soil: moist.
Adapted to eastern half of Kansas.
Full sun to partial shade.
Rapid growth rate.
Used for wildlife, timber, and streambank stabilization.

**Sycamore**
Height: 40-100'
Soil: moist.
Adapted to the eastern half of Kansas.
Full sun.
Used for riparian plantings due to the high flood tolerance and extensive root system.

**How to Hold Seedlings**

**Bareroot Plants**
Short term (1 – 2 weeks).
- Keep in box in cool, shaded area.
- Inspect and keep roots moist.

Long term (More than 2 weeks).
- Place in cooler (33° F – 38° F) or “heel in” seedings outdoors.

**Containerized Plants**
- Open immediately.
- Place containers upright in bucket.
- Store in partially-shaded area out of the wind, and direct sun.
- Keep plugs moist until planting.

*Installing a snow trap row and using the extra space for a wildlife food plot.*

**EVERGREEN TREES**

**Black Hills Spruce**
Height: 20-40'
Soil: Broad range of soils. Adaptable to the northern half of Kansas.
Used for evergreen component in windbreaks and Christmas trees.

**Eastern Redcedar**
Height: 30-50'
Soil: well-drained to dry. Adapted statewide.
Photo: Karan A. Rawlins, University of Georgia, Bugwood.org

**Eastern White Pine**
Height: 50-60'
Soil: moist, well-drained. Adapted to eastern third of Kansas.
Full sun to partial shade. Moderate growth rate. Used for windbreaks and Christmas trees.

**Oriental Arborvitae**
Height: 30-50'
Soil: well-drained to moderately dry. Adapted statewide.
Full sun to partial shade. Moderate growth rate. Aromatic tree used in windbreaks.

**Ponderosa Pine**
Height: 40-50'
Soil: dry, well-drained. Adapted to western two thirds of Kansas.

**Rocky Mountain Juniper**
Height: 20-30'
Soil: dry, well-drained. Adapted to western quarter of Kansas.
Full sun. Slow to moderate growth rate. Used for windbreaks. Subject to disease in eastern Kansas.

**Southwestern White Pine**
Height: 35-50'
Soil: dry, well-drained. Adapted statewide.
Full sun. Moderate growth rate. Used for Christmas trees and windbreaks.