Maintenance

- Check the planting regularly for needed maintenance.
- If livestock are active adjacent to the planting, check fences frequently to ensure livestock do not access the planting area. Flash grazing should not be permitted in plant areas.

- Replace broken stakes. Hammer in loose stakes.
- Straighten any leaning shelters.
- Be sure the shelter is seated 2 to 3 inches in the ground.
- Remove wasp nest or vegetation inside the shelter that will compete with the seedling for light and nutrients.
- Be sure the bird netting is pulled down to leave a one-inch hole; remove the net before the seedling reaches the top of the shelter.
- Check for and control invasive species.

For More Information

For additional cost-share program information, contact the Natural Resources Conservation Service or Farm Service Agency:

www.va.nrcs.usda.gov
www.fsa.usda.gov

For more information about VDOF services or programs, please contact your local Virginia Department of Forestry office or visit:

www.dof.virginia.gov

Western Region Office, Salem:
Phone: (540) 387-5461

Central Region Office, Charlottesville:
Phone: (434) 977-5193

Eastern Region Office, Providence Forge:
Phone: (804) 966-5092

Where To Get Seedlings

Hardwood seedlings may be purchased from Virginia Department of Forestry on-line at:

www.BuyVaTrees.com

Financial assistance for materials is provided in part by the USDA Forest Service and USDA Farm Service Agency.

For Forest Riparian Buffers, Wildlife Habitat and Forest Products

Multiflora Rose, an invasive species, has started on this site

- Leave the shelter in place until the seedling is 2 to 3 inches in diameter, unless mold or fungus forms on the seedling bark.
- If the shelter is degradable and has a perforated line so it will split, leave it on until it splits off. Tubes without a perforated line should be cut off when the seedling is 2 to 3 inches in diameter. Check after spring frost.

- Keep livestock out of planted area

Bird net with one-inch hole in top

Degradable shelter with perforated line

Hardwood seedlings may be purchased from Virginia Department of Forestry on-line at:

www.BuyVaTrees.com
Planting Guidelines

- Choose the right seedlings for the site.
  - **Wet sites**: willow oak, cypress, pin oak, swamp chestnut oak, water oak, alder, black gum and other wet-tolerant species.
  - **Dry sites**: black oak, chestnut oak, southern red oak, hickory, persimmon, apple and other species for dry sites.

- Use only seedlings that are at least one quarter inch (0.25 inch) diameter where the stem joins the roots (root collar) or at least 18 inches tall.

- Prepare the site by removing or applying herbicide to heavy fescue or other plants that will compete with the seedling and harbor mice and voles.

- Plant only shade-tolerant shrubs under overstory trees.

- Complete the planting project by April 15 in the Coastal Plain and Piedmont and by May 1 in the mountains.

- When using dibble bars, hoedads, shovels or other hand-planting tools, be sure to allow enough room for the roots to be planted without crowding.

- Plant seedlings as quickly as possible after receiving them. If necessary, store seedlings in a cool, dry place, such as a basement, barn or similar outbuilding. Maintain a temperature below 40 degrees, if possible, but avoid letting the seedlings freeze.

- When planting, take care of the roots! Keep bundles closed or in plastic bags to keep them from drying out.

Step-By-Step Planting

1. Dig hole large enough to spread out roots

2. Set seedling with the root collar at ground level

3. Fill hole, firm soil so there are no air pockets

Avoid These Common Problems

- **A** Hole too deep, root collar below ground level
- **B** Compacted roots, hole too narrow
- **C** Air pockets and debris in hole
- **D** Exposed roots, not planted deep enough
- **E** "L" or "J" roots, hole too shallow
- **F** Tree not vertical, hole too shallow

Tree Shelters

- Use 4-foot tree shelters to protect from deer.

- Install shelter 2 to 3 inches below ground to protect from mice and voles, with the flared end up. If using flat sheet shelters, be sure to overlap the sides to provide secure closure when assembling.

- Use white oak, treated pine or other durable, treated wood stakes. Place the stake on the north side of the shelter so it does not shade the seedling.

- Attach the shelter to the stake with releasable ties.

- Install bird nets on top of the shelter leaving a one-inch hole in the top.

- Control grass and weeds using proper herbicide or by mechanical means. Grass should be controlled at least 3 feet around the shelter in all directions.