Natural Resources Conservation Service



Native Trees and Shrubs - Technical Guide (for Wildlife Habitat)

Definition: Selection of native woody vegetation that can be planted to improve wildlife habitat. Tree and shrub plantings that provide quality wildlife habitat are composed of a diverse array of native woody and herbaceous plants planted in a linear or clump plantings.

Purpose

This practice may be applied to accomplish one or more of the following:

- Provide food, cover, habitat corridors for terrestrial wildlife
- Provide food and cover for aquatic organisms that live in watercourses with bank-full width less than 5 feet
- Living fences
- Boundary delineation
- Screens and barriers to noise, odor, and dust
- Reduce soil erosion and sedimentation



Highbush Blueberry (Vaccinium corymbosum)

Native woody trees and shrubs provide valuable cover and food for game and non-game wildlife species. When used in hedgerows within cropfields, hayfields, or pastures, native woody plants can facilitate travel and escape from predators for northern bobwhite (quail), songbirds, and small mammals; while also providing nest sites for shrubland birds. Typical woody plants used in hedgerows are small trees and shrubs that reach heights of up to 20 feet. Oaks and other larger trees can be added for species and structural diversity as well as for food (acorns and nuts). Larger species can be used for hardwood community restoration (wetlands or uplands). Countless wildlife species including wild turkey, quail, and white-tailed deer forage on the fruits and seeds of native woody plants like persimmon, blueberries, blackberries, sumacs, and hawthorns. The insects attracted by flowering woody plants are an important diet component of shrubland and grassland bird species like quail, field sparrow, eastern kingbird, eastern towhee, and eastern bluebird. Native fruit bearing plants also provide nectar when in bloom and act as larval hosts for a wide variety of pollinators including butterflies, moths, and bees and would therefore be beneficial to adjacent crops needing pollination. Crops that require these pollinators include apple, asparagus, broccoli, carrot, cauliflower, celery, cucumber, onion, legume seeds, pumpkin, squash, sunflower, citrus fruits, peanut, cotton, and soybean. Native grasses, legumes and forbs can be planted alongside woody plants or can be allowed to grow naturally. These plants will provide additional food and ground cover as well as nectar and host plant sources. Any management of planted areas should be delayed until late winter or early spring. Standing dead stems will provide needed winter cover and seeds for a variety of wintering and resident songbirds. The requirements in this guide are set for the maximum wildlife benefit.

General Criteria and Specifications

Planting

A minimum of 3 native woody plant species should be planted. To promote higher diversity, additional species of woody trees and shrubs, native grasses, forbs, and legumes can be planted. This greatly enhances habitat for songbirds, northern bobwhite (quail), wild turkey, and pollinators. The species selected shall be chosen from the approved lists in Tables 1 and 2.

Use the 2 Habitat Categories to guide species selection based on the site conditions

- 1. Upland fields and/or buffers and/or within or around cropfields, hayfields, or pastures (Table 1).
- 2. Riparian buffers, wetland edges, streambanks (Table 2).



REQUIREMENTS

- Minimum width for wildlife benefit is 30 feet.
 Generally, wider corridors accommodate more wildlife use and better songbird nest success.
- Native species must be used. Chose species suited and adapted to the soils, climate and conservation purpose on the site.
- Soil preparation: Soil should be prepared by conventional disking methods; or by herbicide treatments when a prevalence of exotic sodforming grass competition like fescue, bahia, or bermuda grass exists on site. After planting,

pack soil firmly around roots and protect plants from damage by traffic, fire, livestock, and weed competition. Fertilizer may be used to increase productivity of fruit-bearing species.

- If planning in linear fashion, plantings should be made in multiple rows with spacing to accommodate growth for species used.
- Plant woody bare-root or potted shrubs and trees during the dormant season (November through

March). Spacing: Trees - 12 feet apart, Shrubs - 6 feet apart; or to simplify, all plants 10 to 12 feet apart.

- Tree and shrub shelters must be used where deer and small mammal browse is problematic.
- If linear as with a hedgerow, the center row should consist of the tallest growing species and the average height of the vegetation should decrease toward the outer edges of the hedgerow. If native grasses and/or forbs are planting or allowed to grow naturally, they should be at the outer edges of the rows, between the cropfield and the woody shrubs and trees.



• If native grasses and/or forbs are to be planted, please refer to the SC NRCS Tech Guide 327 (a) for species selection, site preparation, planting and maintenance information.

- No plant listed in <u>Table 3</u>; or by the State as a Noxious Weed; or listed by the SC Exotic Pest Plant Council shall be established in a tree and shrub planting. See these websites for official exotic plants lists: http://plants.usda.gov/java/noxious?rptType=State&statefips=45, http://www.se-eppc.org/southcarolina/scinvasives.pdf
- On pastureland, protect plants from livestock grazing and trampling.

Considerations

- Make sure all site prep or planting equipment is cleaned prior to use on site to prevent seeds, rhizomes or other material from invasive exotic plants from being brought to the site.
- Linking fragmented habitats may increase wildlife use of an area.
- Habitat quality and food supply can be improved by allowing wild blackberries to grow within hedgerow
- In plantings adjacent to small watercourses, the plantings shall be site-adapted, large enough at maturity and installed close enough to shade the watercourse.
- In grassland ecosystems, trees and shrubs may adversely affect area-sensitive nesting birds by fragmenting grassland habitat patches and increasing the risk of predation. Consult an NRCS Biologist when planning on larger grassland tracts.



Hawthorn (Crataegus sp.)

Maintenance

- Competing vegetation shall be controlled until the trees and shrubs become established by mowing in between rows or spot herbicide treatment until plantings is fully established. Control shall continue beyond the establishment period, if necessary.
- Noxious weeds will be controlled by mowing, fire, tillage, or herbicides as appropriate. If using fire, slow burning winter fires are best for hardwoods.
 Herbicides are recommended as the best alterative because of long lasting effects.
 Spot treat as necessary.

	ΓABLE 1: Native Woody Plan	ts for Upland Hal	bitats, Hedgerows and Field Edges	
Common Name	Scientific Name	Form	where to plant	Region best suited
Mockernut Hickory	Carya tomentosa	tree	dry woods	statewide
Pignut Hickory	Cayra glabra	tree	dry to moist woods	statewide
Persimmon	Diospyros virginiana	tree	uplands, old fields	statewide
Black Walnut	Juglans nigra	tree	moist woods	statewide
Eastern Red Cedar	Juniperus virginiana	tree	uplands	statewide
Black Gum	Nyssa sylvatica	tree	uplands and low woods	statewide
Shortleaf Pine	Pinus echinata	tree	old fields and uplands	statewide
Longleaf Pine	Pinus palustris	tree	sandy soil	coastal plain, piedmont
White Oak	Quercus alba	tree	uplands, slopes	statewide
Scarlett Oak	Quercus coccinea	tree	poor soil, dry uplands	piedmont, mtns
Southern Red Oak	Quercus falcata	tree	dry woods	coastal plain, piedmont
Northern Red Oak	Quercus rubra	tree	moist soil, slopes	piedmont, mtns
Post Oak	Quercus stellata	tree	dry, poor, or rich soil	statewide
Black Oak	Quercus velutina	tree	dry, well drained soil	statewide
Live Oak	Quercus virginiana	tree	sandy, dry soils	coastal plain, piedmont
Redbud	Cercis canadensis	medium tree	uplands, dry to moist	statewide
Flowering Dogwood	Cornus florida	medium tree	moist uplands, slopes	statewide
American Holly	llex opaca	medium tree	well drained, moist soil	statewide
Wild Black Cherry	Prunus serotina	medium tree	anywhere, dry to moist soil	statewide
Shadblow Serviceberry	Amelanchier canadensis	small tree	nall tree sandy uplands coas	
Coastal Plain	Amelanchier obovalis	small tree	moist soil	
Serviceberry				coastal plain, piedmont
Paw Paw	Asimina triloba	small tree	moist soil, slopes	piedmont, mtns
Silky Dogwood	Cornus amomum	small tree	moist soil	statewide
0 (0.17, 0	Cornus stricta, Cornus			
Swamp/Stiff Dogwood	foemina	small tree	moist soil	statewide
Deciduous Holly, Possumhaw	llex decidua (keeps berries in winter)	small tree	moist soil	coastal plain, piedmont
Winterberry	llex verticillata	small tree	moist soil	statewide
Southern Crabapple	Malus angustifolia	small tree	well-drained, moist soil	statewide
Red Mulberry	Morus rubra	small tree	moist soil	statewide
Sassafras	Sassafras albidum	small tree	moist, well-drained sandy loams	statewide
Chinquapin	Castanea pumila	large shrub		
Mayhaw	Crataegus aestivalis	large shrub	moist	statewide coastal plain
Cockspur Hawthorn	Crataegus crus-galli	large shrub	dry to moist	statewide
One flower Hawthorn	Crataegus uniflora	large shrub	dry	statewide
Dahoon Holly	Ilex cassine	large shrub	anywhere	coastal plain
		J : : : : : : : : : : : : : : : : : : :	1 -	coastal plain

TAI	BLE 1 (cont.): Native Woody F	Plants for Uplan	d Habitats, Hedgerows and Field Edges	1
Common Name	Scientific Name	Form	where to plant	Region best suited
Lead Plant/False Indigobush	Amorpha herbacea	shrub	dry upland	statewide
Beautyberry	Callicarpa americana	shrub	dry to wet	statewide
New Jersey Tea	Ceanothus americanus	shrub	well drained, open, sandy soils	statewide
Strawberry Bush	Euonymus americana	shrub	moist, shady	statewide
Yaupon Holly	Ilex vomitoria	shrub	well drained to wet	coastal plain, piedmont
Wax Myrtle/Southern Bayberry	Morella cerifera or Myrica cerifera	shrub	wet to dry	coastal plain, piedmont
Ninebark	Physocarpus opulifoilus	shrub	bogs, stream banks, moist bluffs	statewide
American Plum	Prunus americana	shrub	moist to dry	coastal plain, piedmont
Chickasaw Plum	Prunus angustifolia	shrub	moist to dry	statewide
Carolina Laurel Cherry (evergreen)	Prunus caroliniana	shrub	well-drained moist soil	coastal plain, piedmont
Hog Plum, Flatwoods Plum	Prunus umbellata	shrub	moist to dry	statewide
Carolina Rose	Rosa carolina	shrub	moist to dry	statewide
Sparkleberry	Vaccinium arboreum	shrub	dry to moist	statewide
Highbush Blueberry	Vaccinium corymbosum	shrub	moist soil	statewide
Black-berried Highbush Blueberry	Vaccinium fuscatum (atrococcum)	shrub	dry to wet	statewide
Squaw Huckleberry, Deerberry	Vaccinium stamineum	shrub	moist to dry	statewide
Small Black Blueberry	Vaccinium tenellum	shrub	dry upland	coastal plain, piedmont
Arrowwood	Viburnum dentatum	shrub	dry to wet	statewide
Blue Haw, Rusty Black Haw	Viburnum rufidulum	shrub	dry soils	statewide
Coral Honeysuckle	Lonicera sempervirens	vine	moist to dry	statewide
Virginia Creeper	Parthenocissus quinquefolia	vine	moist uplands, shade tolerant	statewide

	TABLE 2: Native Woo	dv Plants for R	iparian Areas and Wetlands	
Common Name	Scientific Name	Form	area to plant	Region best suited
			semi- wet/ edges, swamp forests,	-
Box Elder	Acer negundo	tree	streams	statewide
			semi- wet/ edges, swamp forests,	
Red Maple	Acer rubrum	tree	streams	statewide
			streambanks, rich woods, north	Mtns (Greenville,
Sweet or Black Birch	Betula lenta	tree	facing slopes	Pickens)
			semi- wet/ edges, river and stream	
River Birch	Betula nigra	tree	banks	statewide
Ironwood, Am.				
Hornbeam	Carpinus caroliniana	tree	streambanks, low or rich woods	statewide
Shagbark Hickory	Carya ovata	tree	low woods	piemont, mtns
Hackberry/Sugarberry	Celtis laevigata	tree	alluvial woods	statewide
Atlantic White Cedar	Chamaecyparis thyoides	tree	acid swamps, bogs, wet sands	Coastal Plain, piedmont
Persimmon	Diospyros virginiana	tree	surrounding uplands	statewide
			semi- wet/ edges, swamp forests,	
Green Ash	Fraxinus pennsylvanica	tree	streams	statewide
Black Walnut	Juglans nigra	tree	rich woods, stream margins	statewide
Sweetgum	Liquidambar styraciflua	tree	low, rich woods	statewide
			semi- wet/ edges, swamp forests,	
Tulip Poplar	Lirodendron tulipifera	tree	streams	statewide
Sycamore	Platanus occidentalis	tree	low woods	statewide
Factory Cottonwood	Denvilve delteides	4	etroombanka ayamn faraata	Piedmont, inner coastal
Eastern Cottonwood	Populus deltoides	tree	streambanks, swamp forests	plain Coastal Plain
Swamp Cottonwood Swamp Laurel Oak	Populus heterophylla Quercus laurifolia	tree	swamp forests, streambanks moist soils	
Swamp Laurer Oak	Quercus laurilolla	tree	swamp forests, poorly drained	Piedmont, Coastal Plain
Overcup Oak	Quercus lyrata	tree	lowlands	Piedmont, Coastal Plain
Очетсир Оак	Quercus Tyrata	ii ee	moist, well-drained alluvial	i ledifiorit, Coastai i iairi
Swamp Chestnut Oak	Quercus michauxii	tree	floodplains	Piedmont, Coastal Plain
Water Oak	Quercus nigra	tree	wet lowlands to moist uplands	statewide
Water Oak	Quercus Ingra	ii ee	bottomland hardwood, well-drained	Statewide
Cherrybark Oak	Quercus pagoda	tree	lowlands	statewide
Chorrybark Cak	quereus pageau	1.00	moist alluvial soils along streams	otatowido
Willow Oak	Quercus phellos	tree	and rivers	statewide
			well drained soils along streams	
Shumard Oak	Quercus shumardii	tree	and rivers	Piedmont, Coastal Plain
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Shawblow Serviceberry	Alamanchier arborea	small tree	bluffs, stream banks	statewide
Devil's Walking Stick	Aralia spinosa	small tree	upland and low woods	statewide
<u>_</u>	1		stream banks, low woods,	
Paw Paw	Asimina trioloba	small tree	floodplains	mtns, piedmont, inner CP
			semi- wet/ edges, swamp forests,	
Silky/Swamp Dogwood	Cornus amomum	small tree	streams	statewide
	Cornus stricta, Cornus		stream banks, alluvial woods,	
Swamp/Stiff Dogwood	foemina	small tree	swamp forests	statewide
Deciduous Holly	llex decidua	small tree	upland and alluvial forests	Piedmont, Coastal Plain
			floodplains, bogs, along streams,	
Winterberry	llex verticillata	small tree	low woods	statewide
Red Mulberry	Morus rubra	small tree	alluvial woods and adjacent lower	
-			slope	statewide
	Photinia pyrifolia			
Red Chokeberry	(Aronia arbutifolia)	small tree	moist woods, swamps, bogs, bluffs	statewide

	TABLE 2 (cont.): Native V	Voody Plants for	Riparian Areas and Wetlands	
Common Name	Scientific Name	Form	area to plant	Region best suited
Alternate Leaved			moist woodlands, stream and	
Dogwood	Cornus alternifolia	large shrub	swamp borders	Piedmont, Mountains
	Crataegus viridis, C.			
Hawthorn	spathulata, C. marshallii	large shrub	alluvial woods, swamp forests	Piedmont, Coastal Plain
			rich or dry woods, surrounding	
Witch Hazel	Hamamelis virginiana	large shrub	slopes	statewide
Mockorange	Philadelphus inodorus	large shrub	rich woods, floodplains	Piedmont, Mountains
Common Ninebark	Physocarpus opulifolius	large shrub	bogs, streambanks, moist cliffs,	Piedmont, Mountains
Coastal Plain Willow	Salix caroliniana	large shrub	streambanks, low, moist areas	Coastal Plain, Piedmont
Black Willow	Salix nigra	large shrub	streambanks, low, moist areas	statewide
Silky Willow	Salix sericea	large shrub	marshes, ditches, low woods	statewide
Omky Willow	Cuita Scrioca	large om ab	streambanks, swamp edge, wet	Statewide
Tag Alder	Alnus serrulata	shrub	meadow	statewide
False Indigo/River	Amorpha fruticosa	shrub		
Locust			dry to moist	statewide
Dwarf Paw Paw	Asimina parviflora	shrub	drier edges, surrounding uplands	statewide
Groundsel	Baccharis halimifolia	shrub	open wet edges	Piedmont, Mountains
Buttonbush	Cephalanthus occidentalis	shrub	wet shorelines, swamps	statewide
			, , , , , , , , , , , , , , , , , , , ,	
Sweet Pepperbush	Clethera alnifolia	shrub	semi- wet/ edges, pocosins, bays	Coastal Plain, Piedmont
Hazel-nut	Corylus americana	shrub	rich woods	statewide
Titi	Cyrilla racemeflora	shrub	semi- wet/ edges, bays, poccosins	Piedmont, Coastal Plain
Virginia Willow	Itea virginica	shrub	semi-wet/ wet, low woods	statewide
Virginia Willow	nea viigiinea	Sinub	along streams, bays, pocosins,	Statewide
Coastal Doghobble	Leucothoe axillaris	shrub	swamp forest	Coastal Plain, Piedmont
Highland Doghobble	Leucothoe fontainissima	shrub	along streams	mountains
Tiginana Bognossio	20000tiloo lontamioomia	om ab	swamps, bogs, streambanks,	mountaine
Dog Hobble/Fetterbush	Leucothoe racemosa	shrub	savannahs Coastal Plair	
Spicebush	Lindera benzoin	shrub	stream margins, alluvial woods	statewide
			semi- wet/ edges, pocosins, low	
Fetterbush	Lyonia lucida	shrub	woods	Coastal Plain, Piedmont
Wax Myrtle	Morella/Myrica cerifera	shrub	low woods, marshes	Piedmont, Coastal Plain
Common Elderberry	Sambucus canadensis	shrub	rich soils along riverbanks and forest edges	statewide
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Highbush Blueberry	Vaccinium corymbosum	shrub	moist bays, swamps, steamsides	Piedmont, Coastal Plain
Arrowwood Viburnum	Viburnum dentatum	shrub	alluvial woods, swamp forests	statewide

Table 3: Invasive exotic plants or noxious weeds that should NOT be planted or encouraged:					
Common Name	Scientific Name	form	Common Name	Scientific Name	
Autumn Olive	Eleaegnus umbellata	Shrub	White Mulberry	Morus alba	
Russian Olive	Eleaegnus angustifolia	Shrub	Camphortree	Cinnamomum can	
Thorny Olive/Silverthorn	Eleaegnus pungens	Shrub	White Poplar	Populus alba	
Bush/Amur Honeysuckle	Lonicera maackii	Shrub	Japanese Climbing Fern	Lygodium japonici	
Sweet Breath of Spring	Lonicera fragrantissima	Shrub	Wintercreeper	Euonymous fortun	
Chinese Privit	Ligustrum sinense	Shrub	Common Periwinkle	Vinca minor	
Japanese/Glossy Privit	Ligustrum japonica	Shrub	Bigleaf Periwinkle	Vinca major	
Multiflora Rose	Rosa multiflora	Shrub	Japanese Honeysuckle	Lonicera japonica	
Cherokee Rose	Rosa laevigata	Shrub	English Ivy	Hedera helix	
Macartney Rose	Rosa bacteata	Shrub	Kudzu	Pueraria montana	
Winged Burning Bush	Euonymus alata	Shrub	Chinese or Japanese Wisteria	Wisteria sinensis, Wisteria floribund	
Sacred Bamboo, Nandina	Nandina domestica	Shrub	Beach Vitex	Vitex rotundifolia	
Tropical Soda Apple	Solanum viarum	Shrub	Cogongrass	Imperata cylindric	
Leatherleaf Mahonia	Mahonia bealii	Shrub	Crabgrass	Digitaria sanguina	
Cascade Oregon Grape	Mahonia nervosa	Shrub	Johnson Grass	Sorghum halapens	
Scotch Broom	Cytisus scoparius	Shrub	Bermuda Grass	Cynodon dactylon	
Trifoliate Orange	Poncirus trifoliata	Shrub	Tall Fescue	Lolium arundinace Festuca arundinac	
Chinese Tallow Tree	Triadica sebifera	Tree	Bahiagrass	Paspalum nototum	
Chinaberry	Melia azedarach	Tree	Giant Reed	Arundo donax	
Mimosa	Albizia julibrissin	Tree	Nepalese Browntop	Microstegium vim	
Sawtooth Oak	Quercus acutissima	Tree	Chinese Silvergrass	Miscanthus sinens	
Tree of Heaven	Ailanthus altissima	Tree	Golden Bamboo	Phyllostachys aure	
Callery Pear/Bradford Pear	Pyrus calleryana	Tree	Chinese Lespedeza or Sericea	Lespedeza cuneato	
Princess Tree/Royal Paulownia	Paulownia tomentosa	Tree	Shrubby or Bicolor Lespedeza	Lespedeza bicolor	

mat should 1401 be planted of encouraged.				
Common Name	<u>Scientific Name</u>	<u>Form</u>		
White Mulberry	Morus alba	Tree		
Camphortree	Cinnamomum camphora	Tree		
White Poplar	Populus alba	Tree		
Japanese Climbing Fern	Lygodium japonicum	Vine		
Wintercreeper	Euonymous fortunei	Vine		
Common Periwinkle	Vinca minor	Vine		
Bigleaf Periwinkle	Vinca major	Vine		
Japanese Honeysuckle	Lonicera japonica	Vine		
English Ivy	Hedera helix	Vine		
Kudzu	Pueraria montana	Vine		
Chinese or Japanese Wisteria	Wisteria sinensis, Wisteria floribunda	Vine		
Beach Vitex	Vitex rotundifolia	Vine		
Cogongrass	Imperata cylindrica	Grass		
Crabgrass	Digitaria sanguinalis	Grass		
Johnson Grass	Sorghum halapense	Grass		
Bermuda Grass	Cynodon dactylon	Grass		
Tall Fescue	Lolium arundinaceum/ Festuca arundinacea	Grass		
Bahiagrass	Paspalum nototum	Grass		
Giant Reed	Arundo donax	Grass		
Nepalese Browntop	Microstegium vimineum	Grass		
Chinese Silvergrass	Miscanthus sinensis	Grass		
Golden Bamboo	Phyllostachys aurea	Grass		
Chinese Lespedeza or Sericea	Lespedeza cuneata	Forb		
Shrubby or Bicolor Lespedeza	Lespedeza bicolor	Forb		

Site Specific Comments and Recommendations: USDA-NRCS

Tree and Shrub Planting – Guidance Landowner Field number

Purpose (check all that apply)	
□ Provide wildlife food, cover, and habitat corridors in farm land	□ Reduce soil erosion and sedimentation
Provide food and cover for aquatic organisms in riparian habitat	Create screens and barriers to noise, odor, and dust

Layout		Planting 1	Planting 2	Planting 3	Planting4
Planting width (feet)					
Planting length (feet)					
Area (acres)					
Species # 1	# plants-				
Species # 2	# plants-				
Species # 3	# plants-				
Species # 4	# plants-				
Species # 5	# plants-				
Species # 6	# plants-				
Species # 7	# plants-				
P ₂ O ₅ (lbs/acre)					
K ₂ O (lbs/acre					

Temporary Storage Instructions

Planting stock that is dormant may be stored temporarily in a cooler or protected area. For stock that is expected to begin growth before planting, dig a V-shaped trench (heeling-in bed) sufficiently deep and bury seedlings so that all roots are covered by soil. Pack the soil firmly and water thoroughly.

Site Preparation

Remove debris and control competing vegetation to allow enough spots or sites for planting and planting equipment. For container and bareroot stock, plant stock to a depth even with the root collar in holes deep and wide enough to fully extend the roots. Pack the soil firmly around each plant. Cuttings are inserted in moist soil with at least 2 to 3 buds showing above ground. Additional requirements:

Planting Method

Trees and shrubs must be inspected periodically and protected from damage so proper function is maintained. Replace dead or dying tree and shrub stock and continue control of competing vegetation to allow proper establishment. Periodic harvesting of trees and shrubs may be necessary to maintain the health and vigor of mature stands. Additional requirements: Trees should be planted at 12 ft. by 12 ft. spacing, shrubs at 6 ft. by 6ft. spacing (or all plants at 10 ft. by 10 ft. or 12 ft. by 12 ft. spacing). Use tree and shrub shelters to protect against deer and small mammal browse.

	4		1/1-1-4
U	peranon	ana	Maintenance

Maintain original purpose of planting. Competing vegetation shall be controlled until the trees and shrubs becomes established by mowing in between rows or spot herbicide treatment until established. Shut off pesticide sprayers when turning near trees and shrubs. Noxious weeds in established plantings will be controlled by mowing, fire, tillage, or herbicides as appropriate. Additional requirements:

Additional Specifications and Notes:

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