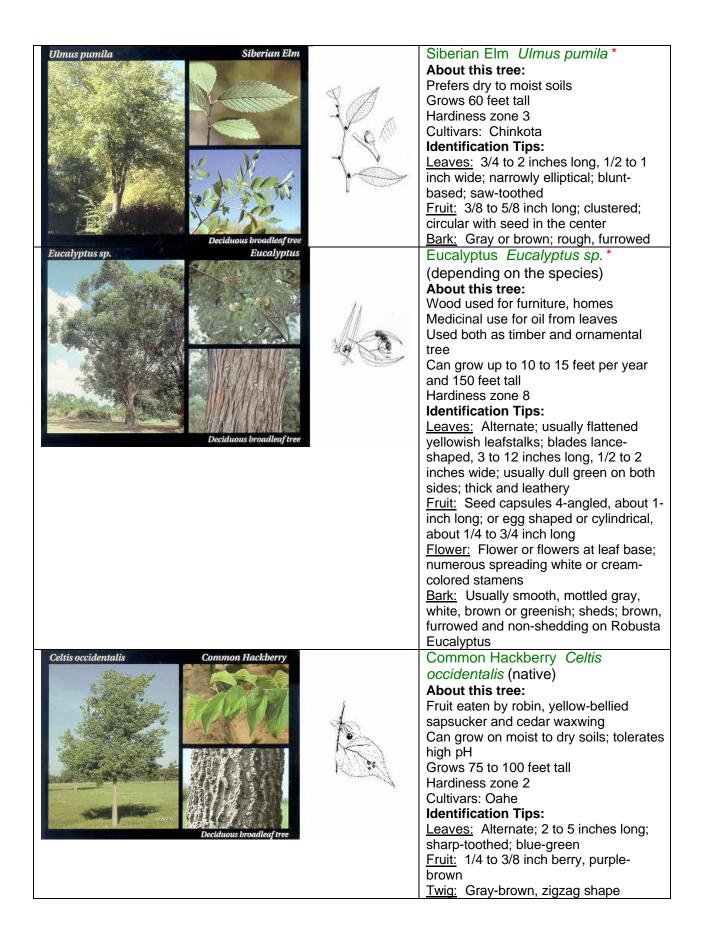
Trees and Shrubs in this guide

Deciduous Trees	
Deciduous Trees Inus glutinosa European Alder Furopean Alder Deciduous broadleaf tree	European Alder Alnus glutinosa * About this tree: Prefers moist to wet soils Grows 50 to 70 feet tall Hardiness zone 3 Identification Tips: Leaves: 1 1/2 to 4 inches long, 1 to 2 1/2 inches wide; elliptical, doubly saw- toothed; shiny dark green <u>Fruit</u> : Cone; 3/4 inches long; clusters of 3 to 5 <u>Twig:</u> Gummy when young; 3-angled pith <u>Bark:</u> Brown, smooth, becoming
Fraxinus pennsylvanica Green Ash Image: Construction of the second se	furrowed Green Ash <i>Fraxinus pennsylvanica</i> (native) About this tree: Seeds eaten by wood duck, Bobwhite quail, purple finch Prefers deep moist to drought resistant soils Grows 50 to 75 feet tall Hardiness zone 2 Cultivars: Cardan Identification Tips: Leaves: Opposite; pinnately compound; 6 to 10 inches long; 5 to 9 leaflets 2 to 5 inches long, 1 to 1 1/2 inches wide <u>Fruit:</u> 1 1/4 to 2 1/4 inches long; yellowish, hanging in clusters <u>Bark:</u> Gray; furrowed scaly ridges, reddish inner layer
Tilia sp. Basswood Image: Split of the split	Basswood <i>Tilia sp.</i> About this tree: Seeds and bark eaten by cottontail rabbit Prefers moist soils Grows 60 to 100 feet tall Hardiness zone 2 Identification Tips: Leaves: In 2 rows; 3 to 6 inches long and almost as wide; long, pointed at tip; coarsely saw-toothed; palmately veined; dark green <u>Fruit:</u> 3/8-inch in diameter; nutlike; elliptical or rounded; gray; attached to a leafy bract <u>Twig:</u> Reddish or green; slender; slightly zigzag <u>Bark:</u> Dark gray; smooth, becoming

	furrowed into narrow scaly ridges
Populus deltoides Eastern Cottonwood	Eastern Cottonwood <i>Populus</i>
	deltoides (native) *
	About this tree:
	Buds eaten by ruffed grouse and prairie
	chicken; bark eaten by beaver
	Grows over 100 feet tall
	Hardiness zone 2
	Cultivars: Mighty Moe, Ohio Red,
	Platte, Walker
	Identification Tips:
TT IN AN AVAILABLE AND AN AVAILABLE AND	Leaves: 3 to 7 inches long; triangular;
	long-pointed, curved, coarse teeth;
	shiny green; leafstalks long, flattened
Deciduous broadleaf tree	Fruit: 3/8-inch elliptical capsules;
	splitting into 3 to 4 parts; cottony seeds
	Bark: Yellowish-green and smooth,
	becoming light gray, rough
	<u>Twig:</u> Coarse, large; pointed buds
Malus sp. Crabapple	
crabappie	Crabapple Malus sp.
	About this tree:
	Fruit is eaten by deer, pheasant, turkey
	and other birds
	Prefers moist to dry soils
	Grows 15 to 20 feet tall
	Hardiness zone 3
	Cultivars: Midwest, Roselow, Magenta
	Identification Tips:
	Leaves: Alternate; 2 to 4 inches long;
	blunt jointed tip; coarsely toothed edge
	Fruit: 1 to 1 1/2 inches in diameter;
Deciduous broadleaf tree	apple; yellow-green
	<u>Twig:</u> Stout; spreading; sometimes
	spines on short side branches; new
	growth is hairy
	Bark: Lengthwise furrows and ridges;
	reddish-brown scales
Ulmus parvifolia Jacq. Chinese Elm	Chinese Elm Ulmus parvifolia *
ounds partojona jacq.	
	About this tree:
	Seeds eaten by purple finch, red-
	breasted grosbeak and cottontail rabbit
	Prefers moist soils
	Grows 40 to 50 feet tall
	Hardiness zone 4
	Identification Tips:
	Leaves: In 2 rows; 3/4 to 2 inches long,
	3/8 to 3/4 inch wide; elliptical; unequal
appendix a second and a second and a second a se	at base; saw-toothed; shiny above
and the second s	Fruit: 3/8 inch long; elliptical, flat 1-
	seeded; with broad pale yellow wing
Deciduous broadleaf tree	Bark: Mottled brown; smooth; shedding
	in irregular, thin flakes



	Bark: Ridged, irregular wart-like knobs
llex onaca American Holly	
	American Holly <i>Ilex opaca</i> (native)
	About this tree:
	Fruit eaten by wild turkey, bluebird,
	cedar waxwing
	Prefers wet to moist, well drained soils
	Grows 40 to 70 feet tall
	Hardiness zone 5
	Identification Tips:
	Leaves: Evergreen; spreading in 2
	rows; 2 to 4 inches long, 3/4 to 1 1/20
	inches wide; elliptical; spiny-pointed;
	coarsely spiny-toothed; leathery
Deciduous broadleaf tree	Fruit: 1/4 to 3/8 inches in diameter;
	berrylike; bright red
	Twigs: Brown or gray; stout
	Bark: Light gray; thin
Robinia hispida Bristly Locust	Black Locust Robinia pseudoacacia
	(native)
	About this tree:
A REAL PROPERTY AND A REAL	Seeds eaten by bobwhite quail and
States and the second sec	squirrel
STATE BASE AND SO	Prefers moist to dry soils
	Grows 40 to 80 feet tall
	Hardiness zone 3
	Cultivars: Steiner
	Identification Tips:
	Leaves: Alternate pinnately compound;
	6 to 12 inches long; 7 to 19 leaflets, 1 to
	1.75 inches long, 1/2 to 3/4 inches wide;
Shrub	paired
	•
	Fruit: 2 to 4 inches long; narrowly
	oblong flat pod; dark brown
	<u>Twig:</u> Dark brown, with stout paired
	spines 1/4 to 1/2 inch long at nodes
	Bark: Reddish brown to almost black;
	thick; deeply furrowed into long rough
	forking ridges
Gleditsia triacanthos Honey-Locust	Honey-Locust Gleditsia triacanthos
	(native)
	About this tree:
	Sweetish pulp edible for humans
	Grows 50 to 75 feet tall
	Hardiness zone 3
	Identification Tips:
	Leaves: Alternate; pinnately or
	bipinnately compound; yellow-green; 6
	to 8 inches long; 20 to 30 oblong
	leaflets 3/4 to 1 1/2 inches long
Deciduous broadleaf tree	Fruit: Red-brown to purple; twisting; 6
Decianous oronaneuj tree	to 18 inches long; bean-like pod with
	seeds
	<u>Twig:</u> Shiny; zigzag; stout; red-brown;
	3-branched (1 to 3 inches); thorns 3-
	branched 2 to 3 inches long

	Bark: Grayish brown-black; long;
	irregular; vertical plates
Acer rubrum Red Maple	Red Maple Acer rubrum (native)
	About this tree:
	Grows well on a wide range of soil
NO REPORT OF ANY	types
	Fast growing; grows 50 to 70 feet tall
AND ALL NOT	Hardiness zone 3
	Identification Tips:
	Leaves: Opposite; broadly ovate with 3
	shallow short-pointed lobes turning red,
	orange and yellow in autumn
	Fruit: Paired single-winged seeds form
Deciduous broadleaf tree	a 'V'
Detailoro Divincesi site	Twig: Shiny red; numerous small
Acer saccharinum Silver Maple	Inticels
state set.	Silver Maple Acer saccharinum
A REAL PROPERTY OF THE REAL OF THE	(native) About this tree:
AND	Seeds used by songbirds and small
Sector States	mammals
	Prefers moist or moderately drained
	soils
The second se	Grows 60 to 80 feet tall; 1 to 3 feet per
	year
	Hardiness zone 3
	Identification Tips:
Disident land land	Leaves: Deeply separated into 5
Deciduous broadleaf tree	doubly-toothed lobes; opposite, simple,
	silvery below
	Fruit: Pair of wide, curved single
	winged seeds joined at base to form a 'V'
	Bark: Light gray; on older trees plates
	separated by narrow fissures
Acer saccharum Sugar Maple	Sugar Maple Acer saccharum
	(native)
	About this tree:
	Good wildlife value
Stand Stand	Prefers moderately well to well drained
	soils; high shade tolerance; poor
	drought tolerance
	Grows 60 to 100 feet tall
	Hardiness zone 3
	Identification Tips:
	Leaves: Opposite; simple; 3 to 5 lobed;
	pointed; slightly coarsely toothed
	Bark: Grayish brown to black; deeply
Deciduous broadleaf tree	furrowed into hard scaly ridges
	Fruit: Pair of single winged seeds join at base to form a 'V'

Morus alba var. tatarica Russian Mulberry Volume Volume Deciduous broadleaf tree	Russian Mulberry <i>Morus alba var.</i> <i>tatarica</i> * About this tree: Hardy variety of white mulberry Wood is hard and durable Grows to 50 feet tall Wide zone of hardiness Identification Tips: Leaves: Alternate, heart-shaped and lobed; 2 to 4 inches long and half as wide <u>Fruit:</u> White to dark red; less than 1 inch long and juicy <u>Flower:</u> Catkins, drooping; up to 1 inch
Quercus macrocarpa Bur Oak Internet and Internet And Inte	long <u>Twig:</u> Red-brown when young; gray on older trees Bur Oak <i>Quercus macrocarpa</i> (native) About this tree: Acorns eaten by turkey, blue jay, grouse and wood duck Prefers dry uplands to moist floodplains Grows 50 to 80 feet tall Hardiness zone 2 Identification Tips: <u>Leaves:</u> 4 to 10 inches long, 2 to 5 inches wide; obovate, lower half deeply divided into 2 to 3 lobes on each side; dark green
Northern Red Oak Image: Straight of the strai	Fruit: Large acorns; broadly elliptical, enclosed by large deep fringed cup with conspicuous fringe <u>Bark:</u> Light gray; thick, rough, deeply furrowed into scaly ridges Northern Red Oak <i>Quercus rubra</i> (native) About this tree: Acorns eaten by turkey, blue jay and ruffed grouse Prefers dry uplands Grows 75 to 100 feet tall Hardiness zone 3 Identification Tips: <u>Leaves:</u> Alternate; simple; pinnately (7- 11) lobed; dark green; 4 to 9 inches long <u>Fruit:</u> Egg-shaped, brown acorn; 1/3 enclosed by shallow cup; dark margin on cup scales <u>Bark:</u> Dark gray-black, shallow, wide- flat ridges

Quercus palustris Pin Oak Pin Oak Pin Oak Deiduous broadleaf tree	Pin Oak <i>Quercus palustris</i> (native) About this tree: Acorn eaten by turkey, wood duck, grouse and blue jay Tolerates poorly drained, wet sites Grows 50 to 90 feet tall Hardiness zone 3 Identification Tips: Leaves: 3 to 5 inches long, 2 to 4 inches wide; 5 to 7 deep lobes nearly to midvein <u>Fruit:</u> 1/2 inch long; nearly round; acorn; 1/4 to 1/3 enclosed by thin saucer-shaped cup
Quercus acutissima Sawtooth Oak Sawtooth Oak Sawtooth Oak Deciduous broadleaf tree	Sawtooth Oak <i>Quercus acutissima</i> About this tree: Excellent for wildlife Prefers moderately to well drained soils; poor shade tolerance; fair drought tolerance Grows 35 to 70 feet tall; medium growth rate Hardiness zone 5 Cultivars: Gobbler Identification Tips: Leaves: Shiny; 3 to 8 inches long with bristle-like teeth <u>Fruit:</u> Small acorns; long, spreading scales enclose two-thirds of the nut <u>Bark:</u> Gray brown; deeply ridged
Quercus shumardii Shumard Oak Image: Shumard Oak Image: Shumard Oak Image: Shumard Oak <td>Shumard Oak Quercus shumardii (native) About this tree: Acorn eaten by turkey, wood duck and blue jay Prefers moist, well drained soils Grows 60 to 90 feet tall Hardiness zone 4 Identification Tips: Leaves: 3 to 7 inches long, 2 1/2 to 5 inches wide; usually deeply divided nearly to midvein into 5 to 9 lobes; shiny dark green above, paler below with tufts of hair at base of veins Fruit: 5/8 to 1 inch long, egg-shaped; 1/4 to 1/3 enclosed by shallow cup Twig: Hairs on the buds</td>	Shumard Oak Quercus shumardii (native) About this tree: Acorn eaten by turkey, wood duck and blue jay Prefers moist, well drained soils Grows 60 to 90 feet tall Hardiness zone 4 Identification Tips: Leaves: 3 to 7 inches long, 2 1/2 to 5 inches wide; usually deeply divided nearly to midvein into 5 to 9 lobes; shiny dark green above, paler below with tufts of hair at base of veins Fruit: 5/8 to 1 inch long, egg-shaped; 1/4 to 1/3 enclosed by shallow cup Twig: Hairs on the buds

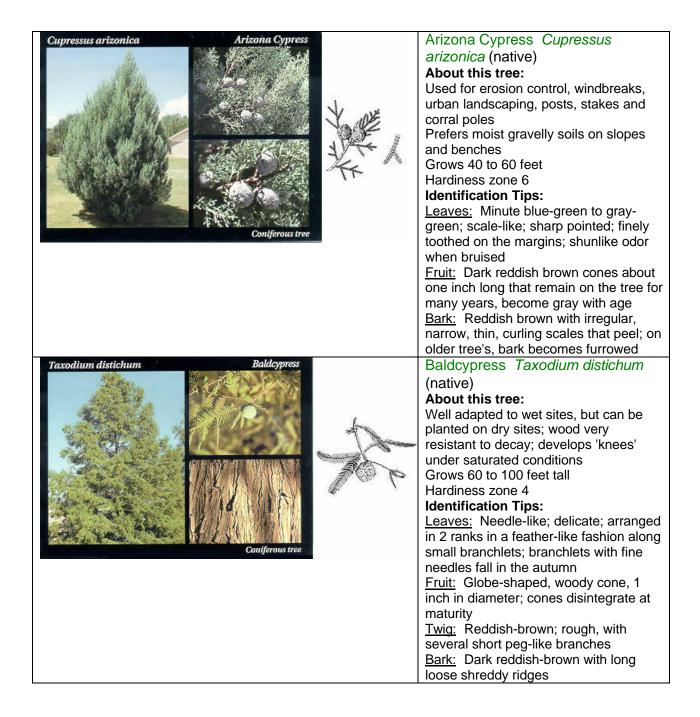
Quercus alba White Oak	White Oak Quercus alba (native)
Quercus unda	About this tree:
Laster Contraction of the second second	
A DECEMBER OF THE ACTION OF TH	Acorns eaten by turkey, blue jay and
the state of the s	ruffed grouse
	Prefers moist, well drained upland soils
	Grows 80 to 100 feet tall
	Hardiness zone 3
STATES STATE A MANAGE	Identification Tips:
	Leaves: 4 to 9 inches long; 2 to 4
	inches wide; elliptical; 5 to 9 lobed;
	bright green above, whitish or gray-
	green below
Deciduous broadleaf tree	Fruit: 3/8 to 1 1/4 inches long; egg-
	shaped; about 1/4 enclosed by shallow
	warty cup
	Bark: Light gray; shallowly fissured
Elaeagnus angustifolia Russian-Olive	Russian-Olive Elaeagnus
	angustifolia *
	About this tree:
	Fruit eaten by cedar waxwings, robins,
	grosbeaks and pheasants
	Can grow on moist to dry soils
	Grows 20 to 30 feet tall
	Hardiness zone 3
	Cultivars: King Red
CARLER MARCH	Identification Tips:
A A A A	Leaves: 1 1/2 to 3 1/4 inches long;
	lance-shaped; dull; gray-green above,
Deciduous broadleaf tree	silver below
	Fruit: Berry-like; 3/8 to 1/2 inch in
	diameter; yellow to brown
	Twig: Silvery; often ending in short
	spine
	Bark: Gray-brown; fissured; shedding
	in long strips
Maclura pomifera Osage-Orange	Osage-Orange Maclura pomifera
	(native)
	About this tree:
	Seeds eaten by quail and squirrels
	Grows 35 to 50 feet tall
	Excellent fuel wood
	Hardiness zone 4
	Identification Tips:
	Leaves: Alternate; simple; 3 to 5 inches
	long; glossy bright green; leaf margins
	entire
	Fruit: Large; yellow-green; 3 to 5
Deciduous broadleaf tree	inches in diameter
	Twig: Stout; orange-brown; zigzag
	shape; 1/4 to 1/2 inch spines
	Bark: Deeply furrowed; yellow-orange-
	brown
L	NI O WIII

Carya illinoensis Pecan	Pecan Carya illinoensis (native)
Carya minoensis	
	About this tree:
	Edible fruit
	Prefers moist, well drained, bottomland
	soils
	Grows to 100 feet tall
	Hardiness zone 4
	Identification Tips:
	Leaves: Pinnately compound; 20 to 22
	inches long; 11 to 17 leaflets, each 2 to
	7 inches long; finely saw-toothed
	margin; alternate
Deciduous broadleaf tree	Fruit: Nut; oblong; 1 to 2 inches long;
	pointed at tip, both ends
	Bark: Light brown to gray; deeply,
	irregularly furrowed
Duuloo manatum Domomonata	
Punica granatum Pomegranate	Pomegranate Punica granatum
	About this tree:
	Cultivated for its attractive flowers
	Tolerates heat and alkaline soils
	Grows to 20 feet tall
	Hardiness zone 7
A WARDEN AND AND AND AND AND AND AND AND AND AN	Identification Tips:
	Leaves: Simple; blades 1 to 3 1/2
	inches long; oval to elliptical to
	lanceolate; margin entire; surface bright
	green
	Fruit: Berry 2 to 4 inches in diameter;
Deciduous broadleaf tree	thick, leathery, reddish yellow rind; juicy
	pulp
	Flower: Showy; red to orange; 5 to 7
	petals
	Bark: Gray to brown on older limbs
Populus sp. Hybrid Poplar	Hybrid Poplar <i>Populus sp.</i>
Populus sp. Hybrid Poplar	
	About this tree:
	Grows very fast, upright, not as
	spreading as cottonwoods
SA ATZ	Disease resistant
	Crossbred specifically in many cases
	for fast growth in windbreaks
	Cultivars: Northwest, Norway, Imperial,
	Robusta
	Identification Tips:
	Leaves: Variable but usually triangular;
	2 to 5 inches long and wide; usually
	green above, light green below; toothed
Deciduous broadleaf tree	
	margin; flattened leafstalks
	Twig: Short; hairless
	Bark: Smooth gray to off-white; deeply
	furrowed in old trees

Populus nigra 'italica' Lombardy Poplar Image: I	Lombardy Poplar <i>Populus nigra</i> <i>'italica'</i> About this tree: Prefers moist soil Tree grows rapidly but is short-lived in more humid regions Roots are invasive and may sucker profusely Grows to 100 feet tall Hardiness zone 4 Identification Tips: <u>Leaves:</u> 2 to 4 inches long and wide; triangular; wavy sawtoothed; green above, light green below; flattened leafstalks <u>Twigs:</u> Stout; hairless; orange, turning gray Bark: Gray to whitish; smooth on young
Liquidambar styraciflua Sweetgum Image: Sweetgum Image: Sweetgum	trees and dark deep furrows on old trees Sweetgum Liquidambar styraciflua (native) About this tree: Grows 60 to 100 feet tall; 2 to 3 feet per year Excellent fall color Tolerates a wide range of soils Hardiness zone 6 Identification Tips: Leaves: Alternate; star-shaped with pointed lobes; brilliant fall colors Fruit: Globe-shaped, tight cluster of capsules persist on tree over winter Twig: Moderately stout with corky wing- like ridges; buds large and shiny
Plantanus occidentalis American Sycamore	Other:Strongly pyramidal growth formAmerican SycamorePlantanusoccidentalis (native)About this tree:Seed eaten by purple finchPrefers moist bottomland soils; toleratespoorly drained soilsGrows 75 to 100 feet tallHardiness zone 4Identification Tips:Leaves:4 to 8 inches long and wide;broadly ovate; 3 or 5 shallow, broad,short-pointed lobesFruit:1 inch in diameter; usually 1brown ball hanging on long stalk;composed of narrow nutlets with hairtuftsBark:Smooth, whitish and brownmottled; peeling off in large thin flakes

Juglans nigra Black Walnut Deciduous broadleaf tree	Black Walnut Juglans nigra (native) About this tree: Nuts eaten by squirrel, red and gray fox Prefers moist, well drained soils Grows 70 to 90 feet tall Hardiness zone 3 Identification Tips: Leaves: Pinnately compound; 12 to 24 inches long; 15 to 23 leaflets up to 5 inches long <u>Fruit:</u> Single or paired, about 2 inches in diameter; thick green or brown husk Twig: Brown; stout; with buff colored chambered pith <u>Bark:</u> Dark brown; deeply furrowed ridges
Salix nigra Black Willow Salix nigra Black Willow Salix nigra Black Willow Salix nigra Black Willow	Black Willow Salix nigra (native) About this tree: Prefers wet soils Grows 60 to 100 feet tall Hardiness zone 3 Identification Tips: Leaves: 3 to 5 inches long, narrowly lance-shaped; shiny green on both sides <u>Fruit:</u> 3/16 inch long; reddish-brown capsules; hairless <u>Twig:</u> Brownish; easily detached at base <u>Bark:</u> Dark brown or blackish; deeply furrowed into acable forking ridges
Salix alba var. vitellina Golden Willow Deciduous broadleaf tree	furrowed into scaly, forking ridges Golden Willow Salix alba var. vitellina About this tree: Rapid growth rate with no suckering Good winter density for a deciduous hardwood Tolerates wide range of soils Grows to 60 feet tall Hardiness zone 3 Identification Tips: Leaves: Narrow lance-shaped; finely toothed; 4 to 6 inches long <u>Flower:</u> Male catkins 1 to 2 inches long with females 2 to 3 inches long <u>Twig:</u> Bright yellow to orange <u>Buds:</u> Covered by a single non- resinous scale

Salix purpurea Purpleosier Willow Interview Decidnous broadleaf tree	Purpleosier Willow Salix purpurea About this tree: Fair wildlife value Tolerates poorly drained soils; good shade tolerance; poor drought tolerance Grows 10 to 20 feet tall Hardiness zones 3 to 8 Cultivars: Streamco Identification Tips: Leaves: In pairs, not quite opposite; smooth tongue shaped; finely-toothed near the tip only; blue-green above and pale below; 2 to 4 inches long <u>Catkins:</u> Small, arise in almost opposite pairs, and mature in early spring before the leaves come out
Casuarina sp. Casuarina	Casuarina Casuarina sp. * About this tree:
Conjerous tree	Provides perching and nesting for birds Tolerates dry or wet soil, salinity, heat and wind Grows 50 to 100 feet tall; grows up to 8 to 10 feet per year Hardiness zone 8 Identification Tips: <u>Leaves:</u> Scale-like; 1/8 inch long <u>Fruit:</u> Light brown, warty ball <u>Bark:</u> Light gray brown; smoothish on small trees, later becoming furrowed
Thuja occidentalis Northern White Cedar (Arborvitae)	Northern White Cedar (Arborvitae) <i>Thuja occidentalis</i> (native) About this tree: Foliage, twigs eaten by White-tailed deer, fruit eaten by various birds Prefers neutral to alkaline soils, limestone origin Grows 40 to 70 feet tall Hardiness zone 2 Identification Tips: Leaves: Evergreen; opposite; 1/16 to 1/8 inch long; scalelike; dull yellow- green; foliage sprays fanlike <u>Fruit:</u> Cone; 3/8 inch long; elliptical; upright from short curved stalk



Cupressocyparis leylandii Leland Cypress	Leland Cypress <i>Cupressocyparis</i> <i>leylandii</i> About this tree:
	Used as Christmas trees, hedgerows, windbreaks and landscaping Adapted to a wide range of soil textures; prefers moist, well drained soils
	Grows 60 to 70 feet tall Hardiness zone 5 Identification Tips: Leaves: Blue-green to gray-green needles, 1/8 inch long; acute;
Coniferous tree	appressed with the apices of the lateral pairs often free <u>Fruit:</u> Cone, 1/2 to 3/4 inch in diameter with 8 scales; each scale contains approximately 5 seeds per scale <u>Bark:</u> Reddish-brown and scaly
Abies concolor Abies concolor Concolor Fir Concolor Fir	Concolor Fir <i>Abies concolor</i> (native) About this tree: Provides winter cover for wildlife Prefers dry to moist soils Grows 75 to 100 feet tall Hardiness zone 3 Identification Tips: Leaves: Needles; slat; linear; 2-ranked; blue-green; 1 1/2 to 2 1/2 inches long <u>Fruit:</u> Cone; erect; olive brown; cylindrical; 3 to 5 inches long <u>Twig:</u> Stout; yellow-green with clustered blunt, red-brown resinous buds
	budsBark:Ash, gray-brown color; flattenedridgesDouglas-FirPseudotsuga menziesii(native)About this tree:Winter cover for wildlifePrefers well drained, loamy soilsGrows 80 to 200 feet tallHardiness zone 3Identification Tips:Leaves:Needles; flexible; flattened;light green-bluegreen; blunt tip; 3/4 to 11/4 inch longFruit:Cone, tan-brown; 2 to 3 incheslong; clustered pairs; 3 points;protruding bractsTwig:Slender; gray-brown; long; sharp-pointed buds

Juniperus scopulorum Rocky Mountain Juniper Image: Construction of the state of t	Rocky Mountain Juniper Juniperus scopulorum (native) About this tree: Foliage and fruit eaten by mammals and birds Can grow on dry to moist soils Grows 25 to 50 feet tall Hardiness zone 3 Identification Tips: Leaves: Small; scale-like; opposite; smooth edges; 1 to 2 inches long <u>Fruit:</u> Small; fleshy; berry-like; 2 to 3 inches in diameter; bright blue <u>Twig:</u> Slender, 4-sided; becoming rounded with age <u>Bark:</u> Thin; reddish-brown; weathering to grayish
Pinus nigra Austrian Pine	Austrian Pine <i>Pinus nigra</i> About this tree: Prefers dry, drought resistant soils Grows 75 to 100 feet tall Hardiness zone 3 Identification Tips: Leaves: Evergreen, 3 1/2 to 6 inches long; 2 in bundle; stiff; shiny dark green; silvery white buds <u>Fruit:</u> Cone, 2 to 3 inches long, 1 to 1 1/4 inches wide; egg-shaped; shiny, yellow-brown; almost stalkless <u>Bark:</u> Dark brown; thick; rough; furrowed into irregular scaly plates <u>Buds:</u> Large, silvery buds
Pinus strobus Eastern White Pine	Eastern White Pine <i>Pinus strobus</i> (native) About this tree: Prefers sandy-loam soils; avoid clay- wet soils Grows 60 to 100 feet tall, 50 to 80 feet wide; growth rate is 3 to 5 feet per year Hardiness zone 3 Identification Tips: Leaves: Needles in bundles of 5; 3 to 5 inches long; slender; flexible <u>Fruit:</u> Cones; 4 to 8 inches long; cylindrical; often curved <u>Twig:</u> Orange brown <u>Bark:</u> Dark grayish brown; deeply furrowed on older trees; 1 to 2 inches thick with ridges

Pinus eldarica Fidarica Pine Fidarica Pine Fidar	Eldarica Pine <i>Pinus eldarica</i> About this tree: Prefers fine sands, silt loams to silty clay loams, and very well drained to moderately well drained soils Fast growth if irrigated Hardiness zone 7 Identification Tips: Leaves: Needles 4 to 6 inches long borne in bundles of 2 or rarely 3; new growth blue-green, older growth darker green <u>Fruit:</u> Cones; reddish brown to brown; borne singly or in whorls of 3 to 6; cones are ovate-conic, approximately 4 inches in length; unarmed <u>Bark:</u> Silvery gray and shiny when young; becoming reddish brown; fissured and scaly on older trunks
Pinus taeda Loblolly Pine	Loblolly pine <i>Pinus taeda</i> (native) About this tree: Seeds eaten by Bobwhite quail and mourning dove Tolerates poorly drained to well drained soils Grows 80 to 100 feet tall Hardiness zone 7 Identification Tips: Leaves: Needles; 5 to 9 inches long; 3 in bundle; stout, stiff, often twisted <u>Fruit:</u> 3 to 5 inches long; conical <u>Bark:</u> Blackish-gray; thick, deeply furrowed into scaly ridges exposing brown inner layers
Pinus ponderosa Ponderosa Pine	Ponderosa Pine <i>Pinus ponderosa</i> (native) About this tree: Seeds eaten by birds, mammals Can grow on dry soils Grows 75 to 100 feet tall Hardiness zone 3 Identification Tips: Leaves: Needles; stout; flexible; yellow- green; 5 to 10 inches long; clusters of 2 or 3 Fruit: Cone, tan-brown; 3 to 6 inches long; scales with prickles <u>Twig:</u> Stout; orange-brown; turpentine odor when broken <u>Bark:</u> Black, yellow-orange (old); wide, shallow-furrowed; flaky plates

Pinus resinosa Red Pine	Red Pine <i>Pinus resinosa</i> (native) About this tree: Seeds used by songbirds and small mammals Prefers well-drained, sandy soils Grows 70 to 80 feet tall Hardiness zone 2 Identification Tips: Leaves: Needles; to 6 1/2 inches long; 2 in a bundle; dark green, snap cleanly <u>Fruit:</u> Egg-shaped cones, 1 1/2 to 2 1/4 inches long <u>Bark:</u> Reddish-brown or gray; with broad, flat, scaly plates; becoming thick
Pinus sylvestris Scotch Pine	Scotch Pine <i>Pinus sylvestris</i> About this tree: Prefers sandy to loam soils Grows 50 to 75 feet tall Hardiness zone 2 Identification Tips: <u>Leaves:</u> Needles; 1 1/2 to 2 3/4 inches long; 2 in bundle; stiff; slightly flattened; twisted; blue-green <u>Fruit:</u> Cone; 1 1/4 to 2 1/2 inches long; egg-shaped; pale yellow-brown <u>Bark:</u> Reddish-brown; thin; becoming gray and shredding in papery plates
Pinus echinata Shortleaf Pine	Shortleaf Pine <i>Pinus echinata</i> (native) About this tree: Seeds are eaten by mourning dove and Bobwhite quail Prefers dry ridges, sandy loams and silt loams Grows 30 to 70 feet tall Hardiness zone 6 Identification Tips: Leaves: Needles; 4 1/2 inches long; 2 or sometimes 3 in bundle; slender, flexible; dark blue-green <u>Fruit:</u> 1 1/2 to 2 1/2 inches long; conical <u>Bark:</u> Reddish-brown; large scaly plates

Pinus elliottii Slash Pine	Slash Pine <i>Pinus elliottii</i> (native) About this tree: Seeds eaten by Bobwhite quail and mourning dove Prefers poorly drained sandy soils Grows 60 to 100 feet tall Hardiness zone 7 Identification Tips: Leaves: Needles; 7 to 10 inches long; 2 and 3 in bundle; stout; stiff; shiny green <u>Fruit:</u> 2 1/2 to 6 inches long; narrowly shaped; shiny dark brown <u>Bark:</u> Purplish-brown; flattened, scaly plates; rough and furrowed
Pinus virginiana Virginia Pine	Virginia Pine <i>Pinus virginiana</i> (native) About this tree: Good wildlife value Prefers well drained soils Poor shade tolerance Good drought tolerance Grows 30 to 40 feet tall Hardiness zone 4 Identification Tips: Leaves: Needles, 1 1/2 to 3 inches long; stout; gray-green; in bundles of two; twisted <u>Fruit:</u> Dark reddish-brown; ovoid; lustrous; 1 1/2 to 2 1/2 inches long, with a sharp spine at the end of each scale <u>Bark:</u> Shallow fissures; dark brown loose scales
Juniperus virginiana Fastern Redcedar Fastern Redcedar Fastern Redcedar Fastern Redcedar Fastern Redcedar Fastern Redcedar Fastern Redcedar Fastern Redcedar Fastern Redcedar	Eastern Redcedar Juniperus virginiana (native) About this tree: One of the best conifers for wildlife habitat Well adapted to most soils Grows 25 to 60 feet tall Hardiness zone 3 Identification Tips: Leaves: Two types, usually on the same tree scale-like and awl shaped <u>Fruit:</u> Blue berrylike cone, 1/4 to 1/3 inch in diameter <u>Twig:</u> 4-sided

Picea pungens Colorado Blue Spruce	Colorado Blue Spruce <i>Picea</i> <i>pungens</i> (native) About this tree: Winter cover for wildlife Prefers upland dry soils Grows 75 to 100 feet tall Hardiness zone 2 Identification Tips: <u>Leaves:</u> Needles; stiff; spirally arranged; 4-sided; 3/4 to 1 1/2 inches long; very prickly; sharp pointed <u>Fruit:</u> Cone, oblong; tan-brown; cylindrical; 3 to 4 inches long; papery scales <u>Twig:</u> Stout; orange to gray-brown
Picea abies Norway Spruce Norway Spruce	Bark: Silvery gray-brown Norway Spruce Picea abies About this tree: Foliage, twigs eaten by White-tailed for each server of the serv
Picea glauca White Spruce	White Spruce Picea glauca (native) About this tree: Foliage, twigs eaten by White-tailed deer; needles eaten by grouse; winter cover for many species Prefers moist, sandy loam soils Grows 50 to 60 feet tall; 1 to 3 feet per year Grows 3 to 6 feet tall Identification Tips: Leaves: Needles 1/2 to 3/4 inches long; stiff; 4-angled, sharp pointed; blue- green, with whitish lines Fruit: Cones, 1 to 2 inches long Twig: Orange-brown; slender; peglike bases Bark: Gray or brown; inner bark whitish

* indicates the plant may be considered weedy or invasive in some parts of the US and may not be appropriate for conservation uses in certain areas. Check with your local Conservation District or state department of natural resources for more information on weediness and recommendations for use.

This guide in primarily intended as an identification tool. Persons intending to use these plants for conservation or landscape should consult additional sources of information for use, establishment, and management of the species.

PDF document prepared by the USDA-NRCS Plant Materials Program, Beltsville, MD. For more information about the PM Program visit our web site at: http://plant-materials.nrcs.usda.gov

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