

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
6	A	Southern Sugar Maple, Florida Maple, Hammock Maple	Acer barbatum	Deciduous	P,C	Tolerant	15'	FS,P	Moist, Dry	S, 6'	Low	60' - 2'	Rounded crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soils, can live on dryer uplands, understory species, shade tolerant. Seeds eaten by many species of songbird.
7	A	Boxelder	Acer negundo L.	Deciduous	M,P,C	Tolerant	12'	FS,P	Wet, Moist	S-1-2'	Some	30' to 60'-24" to 48 "	Rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful)	Understory species, shade tolerant, used in erosion control-fibrous root system, drought resistant also. Seeds eaten by many species of songbird.
8	A	Red Maple, Scarlet or Swamp Maple	Acer rubrum	Deciduous	M, P, C	Tolerant	30'	FS	Wet, Moist	T, S-1-2'	High	60' to 90' - 2 1/2'	Rounded, compact crown	Seeds, seedlings, containers 3 to 15 gal.	Shade tolerant, cuttings in June from lower branches treated. Ornamental due to spectacular fall leaf color. Seeds eaten by many species of songbird.
9	A	Silver Maple	Acer saccharinum	Deciduous	P	No-Ozone	12'	FS,P	Wet, Moist, Dry	S, 1-2'	Some	50' to 80' - 3'	Rounded crown	Seeds, seedlings, containers 3 to 15 gal. Softwood cuttings in July & Oct., hardwood cuttings in winter	Floodplain & bottomland species, younger trees cuttings root easily-horizontal branches used. Seeds eaten by many species of songbird. Not recommended as a stand alone specimen, easily windthrown. <u>Seeds reproduce rapidly, can be invasive in horticulture uses.</u>
10	B	Yellow Buckeye	Aesculus flava (A. octandra)	Deciduous	M,P	Tolerant	12'	Shade	Wet, Moist	S, 1-4'-Strong laterals	Some	25'-8"	Rounded shrub, small tree	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, understory species, prefers lowlands, stream borders, floodplains. Hummingbird food.
11	B	Red Buckeye	Aesculus pavia	Deciduous	M,P	Tolerant	12'	Shade	Wet, Moist	S, 1-4'-Strong laterals	Some	25'-8"	Rounded shrub, small tree	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, understory species, prefers lowlands, stream borders, floodplains. Hummingbird food.
12	B	Painted Buckeye, Dwarf Buckeye	Aesculus sylvatica	Deciduous	M,P	Tolerant	12'	Shade	Wet, Moist	S, 1-4'-Strong laterals	Some	25'-8"	Rounded shrub, small tree	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, understory species, prefers lowlands, stream borders, floodplains. Hummingbird food.
13	D	Black Alder	Alnus glutinosa	Deciduous	M,P,C	Tolerant	5'	FS	Wet, Moist	T, S 1-3' Lateral roots	High	20' -4"	Several trunks, spreading	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful)	Forms thickets, prefers wet soil, borders streams, bottomlands, floodplains, swamps.
14	D	Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	Tolerant	5'	FS	Wet, Moist	T, S 1-3' Lateral roots	High	20' -4"	Several trunks, spreading	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful)	Forms thickets, prefers wet soil, borders streams, bottomlands, floodplains, swamps.
15	B	Downy Serviceberry, Shadbush, Juneberry, Shadblow, Sarvis	Amelanchier arborea	Deciduous	M,P	Tolerant	20'	FS, P	Moist	T, S 1-3	Low Some	40' -1'	Narrow, rounded crown or irregularly shaped shrub.	Seeds, Seedlings, containers 3 to 15 gal.	Understory species, prefers moist soils in hardwood forests, streambanks, etc. Star shaped white flowers, many species of songbirds eat the fruit.

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2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
16	B	Serviceberry	Amelanchier canadensis	Deciduous	M,P	Tolerant	20'	FS, P	Moist	T, S 1-3	Some	40' -1'	Narrow, rounded crown or irregularly shaped shrub.	Seeds, Seedlings, containers 3 to 15 gal.	Understory species, prefers moist soils in hardwood forests, streambanks, etc. Star shaped white flowers, many species of songbirds eat the fruit.
17	B	Pawpaw, Pawpaw Apple, False Banana	Asimina triloba	Deciduous	M,P,C	Tolerant	20'	FS, P, Shade	Moist	T, S 1-6'	Some	30' -8"	Shrub or small tree that forms colonies from root sprouts, pyramidal to rounded crown	Seeds, seedlings, containers 3 to 15 gal.	Moist soils, especially floodplains, in understory of hardwood forests, can grow in full sun as ornamental. Purple flowers, mid spring, fruit ripe in fall. Fruit edible, desired by humans, several mammals and many species of birds.
18	B	Sweet Birch	Betula lenta	Deciduous	M	Tolerant	10'	FS	Dry, Moist	T, S 1-6'	Low	30' -1'	Irregular spreading crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Mountain coves and rich slopes, near streams. Aromatic oils and flavorings (wintergreen) are obtained from tree.
19	B	River Birch	Betula nigra var. Heritage	Deciduous	M,P,C	Tolerant	10'	FS	Wet, Moist	T, S 1-6'	High	40' to 80'-1' to 2'	Irregular spreading crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Floodplain & bottomland species, can grow in dry areas but cannot tolerate fire, used for erosion control, can tolerate flooding, very attractive bark.
20	B	American Hornbeam, Ironwood	Carpinus caroliniana	Deciduous	M,P,C	Tolerant	15'	P, Shade	Wet, Moist	S, 1-6' Strong lateral	Some	30' -1'	Broad, rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Strong root system, understory species, prefers lowlands, stream borders, floodplains.
21	A	Mockernut Hickory, White, Whiteheart, Hognut, Bullnut	Carya alba (C. tomentosa)	Deciduous	M,P,C	Tolerant	30'	FS	Moist, Dry	Pronounced Tap Root, S 1-6'	Low	50' to 80' -1 to 2'	Rounded Crown	Seeds, seedlings, containers 3 to 15 gal.	Dry rocky or sandy uplands, ridges. Many mammals and birds eat the nuts.
22	D	Water Hickory, Bitter Pecan	Carya aquatica	Deciduous	P,C	Tolerant	30'	FS	Wet, Moist	Pronounced Tap Root, S 1-6'	High	70' to 100'-1 1/2 to 2 1/2'	Slender, upright branches, narrow crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers bottomlands, lowlands, swamps, and floodplains, especially clay soils, transplants easily, seeds are waterborne. Many mammals and birds eat the nuts.
23	B	Bitternut Hickory	Carya cordiformis	Deciduous	M,P,C	Tolerant	30'	FS	Wet, Moist	Pronounced Tap Root, S 1-6'	High	60' to 80' -1 to 2'	Broad, rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers bottomlands, lowlands, swamps, and floodplains, especially clay soils, transplants easily, seeds are waterborne. Many mammals and birds eat the nuts.
24	A	Pignut Hickory	Carya glabra	Deciduous	M,P,C	Tolerant	30'	FS	Moist, Dry	Pronounced Tap Root, S 1-6'	Low		Irregular, spreading crown	Seeds, seedlings, containers 3 to 15 gal.	Dry and moist uplands with hardwoods, bright yellow/gold fall color. Many mammals and birds eat the nuts.
25	A	Red Hickory	Carya ovalis	Deciduous	M,P,C	Tolerant	30'	FS	Dry	Pronounced Tap Root, S 1-6'	Low	70' to 100'-2 1/2'	Narrow rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Dry uplands with hardwoods, bright yellow/gold fall color. Many mammals and birds eat the nuts.

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3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
26	A	Shagbark Hickory, Shellbark, Scaleybark, Kingnut, & Upland Hickory	Carya ovata	Deciduous	M,P	Tolerant	30'	FS	Wet, Moist	Pronounced Tap Root, S 1-6'	High	70' to 100' - 2 1/2'	Narrow rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers bottomlands, lowlands, floodplains, especially clay soils, transplants easily, can grow well in hardwood stands on ridges too. Many mammals and birds eat the nuts.
27	A	Sand Hickory, Pale, Pignut	Carya pallida	Deciduous	M,P	Tolerant	30'	FS	Moist, Dry	Pronounced Tap Root, S 1-6'	Low	30' to 80' - 1 to 2'	Rounded Crown	Seeds, seedlings, containers 3 to 15 gal.	Dry rocky or sandy uplands, ridges. Many mammals and birds eat the nuts.
28	A	Chinkapin	Castanea pumila	Deciduous	M,P,C	Tolerant	20'	P, Shade	Dry, Moist,	Dominant tap root, S-2-4'	Some	15' to 30' - 1 to 1 1/2'	Irregular , spreading crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system. Can be found from sand ridges to swamp edges, streambanks, valleys, understory of hardwood forest. Resistant to American Chestnut tree blight. Nuts are a valuable food source.
29		Catalpa, Indian Cigar Tree	Catalpa speciosa	Deciduous	P,C	Tolerant	20'	FS, P	Moist, Wet	Dominant tap root, S-2-4'	High	15' to 30' - 1 to 1 1/2'	Irregular , spreading crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers bottomlands, lowlands, floodplains, especially clay soils, transplants easily, can grow well in hardwood stands on ridges too. Specific worm lives on tree, beneficial to fish.
30	A	Sugarberry, Hackberry, Southern Hackberry, Sugar Hackberry, Lowland Hackberry	Celtis laevigata	Deciduous	P,C	Tolerant	20'	FS,P	Wet, Moist	S-2 to 6'	High	80' to 100' - 1 1/2'	Broad, rounded, open crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers streambanks or bottomlands, transplants easily, can grow in upland sites also. Many mammals and birds eat the fruit.
31	B	Hackberry, Sugarberry, Nettle tree, Beaverwood, Northern Hackberry, American Hackberry	Celtis ???	Deciduous	M,P	Tolerant	20'	FS,P	Moist, Dry	Deep tap root, T 10 to 20'	Some	50' to 90' - 1 to 3'	Broad, rounded, open crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers streambanks or bottomlands, transplants easily, can grow in upland sites also. Many mammals and birds eat the fruit.
32	B	Eastern Redbud, Judas Tree	Cercis canadensis	Deciduous	M,P,C	Tolerant	12'	P, Shade	Moist	Dominant tap root, S-2-4'	Low	40' -8"	Short trunk, irregular rounded crown	Seeds, seedlings, containers 3 to 15 gal.	Legume; Prefers well drained soil, strong root system in uncompacted soil, understory species, as maturing becomes less shade tolerant. Beautiful spring flowers, ornamental.
33	A	Atlantic White Cedar, Southern White Cedar, White Cedar, Swamp Cedar	Chamaecyparis thyoides	Evergreen	P,C	Tolerant	40'	FS,P	Wet, Moist	S 1-3'	Some	50' to 90' - 1 1/2' to 2'	Narrow pointed spire like crown	Seeds, seedlings, containers 3 to 15 gal.	Wet, peaty acid soils, fresh water swamps and bogs, poor root system, wind thrown easily, avoid clay soils, roots stop at hardpan.
34	A	Fringetree, Old Man's Beard, White Fringetree	Chionanthus virginicus	Deciduous	M,P,C	Tolerant	20'	FS, P,Shade	Moist	T,S 1-6	Low	30' -6"	Short truck, narrow oblong crown, shrub	Seeds, seedlings, container 3 to 15 gal.	Strong root system, prefers moist soils, streambanks, valleys, understory of hardwood forest. Ornamental.
35	A	Yellowwood	Cladrastis kentuckea	Deciduous	M,P	Unknown	30'	FS,P	Moist	Deep tap root, S 1-6'	Low	50' - 1 1/2'	Short trunk, broad rounded head	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soils: streambanks, valleys, in hardwood forests. Beautiful flowering ornamental.

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3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
36	A	Alternate Leafed Dogwood, Pagoda Dogwood, Blue Dogwood	Cornus alternifolia	Deciduous	M,P	Tolerant	20'	FS, P, Shade	Moist, Dry	S- 1-3'	Some	30' -8"	Shrub or small tree, short trunk, broad, flattened spreading crown	Seeds, seedlings, containers 3 to 15 gal. (Softwood cuttings in June, hardwood cuttings in winter).	Shallow root system, survival higher when planted in marginal light conditions, rootball transplants more successful, berries blue colored.
37	A	Flowering Dogwood, Boxwood, Cornel	Cornus florida	Deciduous	M,P,C	Tolerant	20'	FS, P, Shade	Moist, Dry	S- 1-3'	Low	30' -8"	Short trunk, spreading crown	Seeds, seedlings, containers 3 to 15 gal. (Softwood cuttings in June, hardwood cuttings in winter, layering or grafting).	Shallow root system, survival higher when planted in marginal light conditions, rootball transplants more successful, red berries have high calcium and fat content and consumed by migrating birds.
38	B	May Hawthorn, Apple Hawthorn	Crateagus aestivalis	Deciduous	P,C	Tolerant	20'	FS	Wet, Moist	T,S -1-3'	Some	30' -6"	Small, spiny, thicket forming with short stout trunk & broad dense crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers wet or moist soil: streambanks, riverbanks, borders of swamps. Fruit eaten by many species of birds.
39	A	Cockspur Hawthorn, Hog-Apple, Newcastle Thorn	Crateagus crus-galli	Deciduous	M,P,C	Tolerant	20'	FS	Moist	T,S -1-3'	Some	30' -1'	Small, spiny, thicket forming with short stout trunk & broad dense crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers moist soil: streambanks, pastures, woodlines, thickets, etc. Fruit eaten by many species of birds.
40	A	Yellow Hawthorn, October Haw, Summer Haw	Crateagus flava	Deciduous	P,C	Tolerant	20'	FS	Moist, Dry	T,S, 1-3'	Low	20' -8"	Small, short stout trunk & broad dense crown.	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers dry soil: sandy or rocky woodlands and thickets. Spiny, thicket forming.
41	A	Pear Hawthorn	Crateagus calpodendron	Deciduous	M,P	Tolerant	20'	FS	Moist	T,S -1-3'	Some	20' -6"	Small, spiny, thicket forming with short stout trunk & broad dense crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers moist soil of valleys, especially rocky streambanks and uplands. Fruit eaten by many species of birds.
42	A	Fanleaf Hawthorn	Crateagus flabellata	Deciduous	M,P	Tolerant	20'	FS	Moist, Dry	T,S, 1-3'	Low	20' -6"	Small, spiny, thicket forming with short stout trunk & broad dense crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers moist soil: streambanks, borders of forests, pastures, fields, and thickets. Fruit eaten by many species of birds.
43	A	Biltmore Hawthorn	Crateagus intricata	Deciduous	M,P	Tolerant	20'	FS	Moist, Dry	T,S, 1-3'	Low	20' -6"	Small, spiny, thicket forming with short stout trunk & broad dense crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers moist soil: streambanks, borders of forests, pastures, fields, and thickets. Fruit eaten by many species of birds.
44	A	Washington Hawthorn	Crateagus phaenopyrum	Deciduous	M,P	Tolerant	20'	FS	Moist	T,S, 1-3'	Low	30' -8"	Small, spiny, thicket forming with short stout trunk & broad dense crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, prefers moist soil: streambanks, borders of forests, pastures, fields, and thickets. Fruit eaten by many species of birds.

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3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
45	A	Persimmon, Simmon, Possumwood	Diospyros virginiana L.	Deciduous	M,P,C	Tolerant	30'	FS, P, Shade	Moist, Dry	Deep tap root	Some	20' to 70' - 1 to 2'	Cylindrical or rounded head	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Understory species, used for erosion control because of deep roots, found in floodplains, old fields, roadsides, almost anywhere, male & female plants, fruit drops in late fall, fruit edible by humans and highly desired by wildlife.
46	A	American Beech	Fagus grandifolia	Deciduous	M,P,C	Tolerant	30'	FS, P, Shade	Moist, Dry	T, S 1 to 6'	Low	70' -2 1/2'	Stout trunk, dense rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Understory species, shade tolerant, favorite food for many wildlife species.
47	A	White Ash, Biltmore Ash,	Fraxinus americana	Deciduous	M,P,C	No-Ozone	30'	FS, P, Shade	Moist, Dry	Dominant tap root	Low	80' -2'	Straight trunk, conical or rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Understory and overstory species, shade tolerant when younger, sensitive to ozone pollution, ornamental due to leaf color in fall, wildlife food for many species.
48	A	Carolina Ash, Water Ash, Pop Ash	Fraxinus caroliniana	Deciduous	P,C	Tolerant	30'	FS, P, Shade	Wet, Moist	T, S 1-6'	High	30' to 50' - 1'	1 or more trunks, rounded or narrow crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Understory species, shade tolerant when younger, floodplain, lowland, swamp.
49	B	Green Ash, Swamp Ash, Water Ash, Red Ash	Fraxinus pennsylvanica	Deciduous	M,P,C	Tolerant	30'	FS, P	Wet, Moist	T, S 1-6'	High	60' -1 1/2'	Straight trunk, rounded or irregular crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers streambanks or bottomlands, transplants easily.
50	B	Pumpkin Ash, Red Ash	Fraxinus tomentosa	Deciduous	M,P,C	Tolerant	30'	FS, P	Wet, Moist	T, S 1-6'	High	80' -2'	Buttressed base, irregular crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers streambanks, floodplains, bottomlands, transplants easily.
51	C	Water Locust	Gleditsia aquatica	Deciduous	M,P,C	Tolerant	12'	FS, P	Wet, Moist	Strong Taproot, S1-15'	High	50' -2'	Spiny trunk, open, flattened crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Prefers wet areas: streambanks, floodplains, bottomlands, transplants easily.
52	B	Honey Locust, Sweet locust	Gleditsia triacanthos L.	Deciduous	M,P,C	Tolerant	12'	FS	Wet, Moist	Strong Taproot, S1-15'	Low Some	80' -2 1/2'	Spiny trunk, open, flattened crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable)	Legume; Prefers moist, well drained soils:streambanks, can grow well almost anywhere, used for erosion control, transplants easily. Pods/Seeds eaten by wildlife.
53	D	Loblolly Bay, Holly Bay, Gordonia, Bay	Gordonia lasianthus	Evergreen	P,C	Tolerant	15'	FS,P, Shade	Wet, Moist	S 1-6, Strong laterals	High	60' -1 1/2'	Compact crown, upright branches	Seeds, seedlings, containers 3 to 15 gal. (Softwood cuttings, stake is successful)	Prefers acidic, swampy soils, lowlands, stream borders, floodplains, can grow in water, strong root system, understory or topstory species. 3 to 4" white flowers.

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54	A	Carolina Silverbell, Common Silverbell, Boxelder, Tisswood, Bellwood	Halesia tetraptera (H. carolina)	Deciduous	M,P	Tolerant	15'	P,Shade	Moist	Dominant tap root, S-2-4'	Low Some	80' -1 to 2'	Shrub or small tree with pyramidal crown	Seeds, seedlings, containers 3 to 15 gal. Softwood cuttings & layering.	Prefers moist soil, along streambanks, riverbottoms, understory species in hardwood forests. Spring flowers-white to pinkish, fruit in fall. Beautiful ornamental.
55	A	American Holly	Ilex opaca	Evergreen	M,P,C	Tolerant	15'	FS/Pt. Shade	Moist, Dry	Strong taproot, S1-10'	Low Some	40' to 70' - 1 to 2'	Narrow rounded dense crown, upright branches	Seeds, seedlings, containers 3 to 15 gal.	Moist or wet, well drained soils, floodplains, mixed hardwood forests. Bright red berries, high calorie, eaten by many species of birds.
56	A	Butternut, White Walnut, Oilnut	Juglans cinerea L.	Deciduous	M,P	Tolerant	20'	FS	Moist	Strong Taproot, S1-15'	Low	40' to 70' - 1 to 2'	Short straight trunk, broad open crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist, well drained soils: streambanks, can grow well almost anywhere. Nuts are a valuable source of food for wildlife.
57	B	Black Walnut, American Walnut, Eastern Black Walnut	Juglans nigra L.	Deciduous	M,P,C	Tolerant	30'	FS	Moist	Deep Tap Root-10 to 20', Strong laterials	Low	70' to 90' - 2' to 4'	Open, rounded crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist, well drained soils, streambanks, bottomland if drained, up to sides of ridges, open fields, etc.; use 3 yr old for transplanting due to weed competition, other plants will not grow under.
58	A	Eastern Red Cedar, Red Juniper	Juniperus virginiana	Evergreen	M,P,C	Tolerant	30'	FS	Wet, Moist, Dry	Strong deep laterials	Low	40' to 60' - 1' to 2'	Narrow, compact, columnar crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist, well drained soils, will grow almost anywhere. Songbirds eat fruit.
59	B	Sweetgum, Redgum, Sappgum, Starleaf Gum, Bilsted	Liquidambar styraciflua	Deciduous	M,P,C	Tolerant	30'	FS	Moist	Deep Tap Root-10 to 20', Strong laterials	Low Some	60' to 100' - 1 1/2 to 3'	Straight trunk, Conical Crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soils: streambanks, floodplains, bottomlands, dry sites, can grow almost anywhere, transplants easily. No fruit in var. "roundiloba".
60	B	Yellow Poplar, Tulip Poplar, White Poplar, Whitewood	Liriodendron tulipifera L.	Deciduous	M,P,C	Tolerant	30'	FS	Moist	Deep Tap Root-10 to 20', Strong laterials	High Some	80' to 120' - 2 to 3'	Straight trunk, narrow crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soils: streambanks, well drained bottomlands, transplants easily, used for soil toxicity remediation. Spring flowers important source of nectar for bees.
61	A	Osage Orange, Bodark, Hedge Apple, Bois d' arc	Maclura pomifera	Deciduous	M,P, C	Tolerant	30'	FS	Moist or Dry	Very Deep Tap Root, Strong laterials	Low Some	30' to 70' - 2'	Spiny tree, broad rounded or irregular crown	Seeds, seedlings, containers 3 to 15 gal. & root cuttings.	Prefers moist soils: streambanks, well drained bottomlands, transplants easily, used for windbreaks, soil reclamation, resistant to drought & cold. Pick locations wisely due to fruit falling.
62	A	Cucumbertree, Cucumber Magnolia, Yellow Cucumber Tree, Mountain Magnolia	Magnolia acuminata	Deciduous	M,P	Tolerant	20'	FS,P	Moist	Deep rooted-10 to 20'	Low Some	60' to 80' - 2'	Straight trunk, narrow crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soils: streambanks, well drained bottomlands, slopes, transplants easily.
63	A	Southern Magnolia, Evergreen Magnolia, Bull-Bay, Big Laurel	Magnolia grandiflora	Deciduous	M,P,C	Tolerant	30'	FS	Moist	Dominant deep tap, strong laterials	Some	60' to 80' - 2 to 3'	Straight trunk, conical crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings appear favorable).	Prefers moist soils: streambanks, well drained bottomlands, slopes, can grow well in dry areas also, transplants easily.

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
64	A	Fraser Magnolia, Mountain Magnolia, Earleaf Cucumber Tree, Umbrella Tree, Mountain-Oread	Magnolia fraseri	Deciduous	M,P	Tolerant	20'	FS,Pt. Shade	Moist	Dominant tap, strong laterals	Low	30' to 70' - 1' to 2'	Open crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, some shade tolerance, large showy white flowers.
65	A	Umbrella Magnolia, Umbrella Tree	Magnolia tripetala	Deciduous	M,P	Tolerant	20'	FS,Pt. Shade	Moist	Dominant tap, strong laterals	Low	30' to 40' - 1'	Open crown	Seeds, seedlings, containers 3 to 15 gal.	Strong root system, some shade tolerance, very large showy white flowers.
66	D	Sweetbay, Swamp Bay, Swamp Magnolia, White Bay, Laurel, Swamp Laurel	Magnolia virginiana	Evergreen	P,C	Tolerant	15'	FS,Pt. Shade	Wet, moist	T, S 1-3' Lateral roots	High	20' to 60' - 1 1/2'	Narrow, rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings have been successful)	Prefers acidic, swampy soils, lowlands, stream borders, floodplains, can survive poor to very poor drainage, strong root system.
67	A	Southern Crab Apple	Malus angustifolia	Deciduous	M,P,C	Tolerant	25'	FS	Dry, Moist	T, S1-2' Lateral roots	Low	30' -10"	Wide, rounded crowns	Seeds, seedlings, containers 3 to 15 gal., grafting, budding.	Prefers low woodland borders, fencerows, old fields. Ornamental due to fragrant spring flowers-white to pink. Many hybrids- for wildlife & birds choose small fruited varieties.
68	A	Sweet Crab Apple	Malus coronaria	Deciduous	M,P	Tolerant	25'	FS	Dry, Moist	T, S 1-2' Lateral roots/roots sprout easily	Low	30' -10"	Wide, rounded crowns	Seeds, seedlings, containers 3 to 15 gal., grafting, budding.	Prefers low woodland borders, fencerows, old fields. Ornamental due to fragrant spring flowers-white to pink. Many hybrids- for wildlife & birds choose small fruited varieties.
69	A	Red Mulberry, Moral	Morus rubra	Deciduous	M,P,C	Tolerant	20"	FS,P	Moist	T, S 1-6'	Low Some	60' -2'	Short trunk, broad rounded head	Seeds, seedlings, container 3 to 15 gal.	Prefers streambank, understory & topstory species. Can be found in dry areas. Fruit eaten by many species of birds.
70	D	Water Tupelo, Swamp tupelo, Sourgum, Cottongum	Nyssa aquatica	Deciduous	P,C	Tolerant	30'	FS,P	Wet	S 1-6, Strong laterals	High	100' -3'	Straight trunk, buttressed base, narrow open crown	Seeds, seedlings, stump suckering	Prefers wet, saturated soil, swamps, floodplains, close to water where can be submerged a few months per yr.
71	D	Black Tupelo, Blackgum, Pepperidge, Tupelogum	Nyssa sylvatica Marsh. Var. sylvatica	Deciduous	M,P,C	Tolerant	30'	FS	Wet, moist	Dominant tap,S 1-6, Strong laterals	Low	50' to 100' - 2 to 3'	Straight trunk, conical or flat topped crown	Seeds, seedlings, layering or stump suckering	Prefers light textured soils of uplands and stream bottoms.
72	D	Swamp Black Gum, Swamp Tupelo	Nyssa sylvatica var. biflora	Deciduous	P,C	Tolerant	30'	FS	Wet, moist	Dominant tap, S 1-6, Strong laterals	High	50' to 100' - 2 to 3'	Straight trunk, conical or flat topped crown	Seeds, seedlings, layering or stump suckering	Prefers heavy organic or clay soils of wet bottom lands.
73	A	Sourwood, Sorrel Tree, Lily of the Valley Tree	Oxydendrum arboreum	Deciduous	M,P,C	Tolerant	20'	P, Shade	Moist	Dominant tap, S 1-6, Strong laterals	Low Some	50' -1'	Conical or rounded crown	Seeds, seedlings, containers 3 to 15 gal.	Ornamental; Prefers moist soils in valleys and uplands, streambanks, understory species. Important source of nectar for bees.
74	A	Wild Olive, Devilwood	Osmanthus americana	Evergreen	P,C	Tolerant	20'	SF,P,Shade	Moist	Dominant tap, S 1-6'	Some	30' -1'	Narrow oblong crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soils in valleys & streambanks to sandy uplands, understory species.

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
75	A	Eastern Hophornbeam, Hornbeam, Leverwood, Ironwood	Ostrya virginiana	Deciduous	M,P	Unknown	15'	FS,P, Shade	Moist	T, S 1-6'	Some	20' to 50' - 1'	Rounded crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers moist soil, streambanks, understory of upland hardwood forest. Nutlet beneficial to wildlife.
76	D	Red Bay, Shorebay	Persea borbonia	Evergreen	P,C	Tolerant	15'	FS,P, Shade	Wet, Moist	T, S 1-6'	High	60' -2'	Dense crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers wet soil, standing water, borders streams, bottomlands, floodplains, swamps.
77	B	Shortleaf Pine, Yellow Slash Pine, Swamp Pine	Pinus echinata	Evergreen	M,P,C	Tolerant	40'	FS	Dry	Dominant tap	Low	60' to 100' 2' to 2 1/2'	Narrow, pyramidal crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers uplands, old fields; acidic ph preferred; dominant tap root.
78	A	Longleaf Pine, Yellow Pine, Longstraw, Swamp Pine, Georgia Pine, Heart Pine, Pitch Pine	Pinus palustris	Evergreen	P,C	Tolerant	40'	FS	Moist, Dry	Dominant tap, extensive lateral roots	Low	80' to 100' 2' to 2 1/2'	Open irregular crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers well drained sandy soils of flatlands and sandhills.
79	B	Pond Pine	Pinus serotina	Evergreen	P,C	Tolerant	40'	FS	Wet, Moist	Dominant tap & laterals	High	25' to 75' - 2' to 2 1/2'	Open round topped crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers wet soil, wet, flat woods and bogs, standing water, borders streams, bottomlands, floodplains, swamps.
80	A	White Pine, Eastern White Pine, Northern White Pine	Pinus strobus	Evergreen	M,P	Tolerant	40'	FS	Dry, Moist	Dominant laterals	Low	100' to 150' -3' to 4'	Crown of horizontal branches	Seeds, seedlings, containers 3 to 15 gal.	Prefers well drained soils of any kind. Susceptible to drought stress. Grows better in mountains, can grow in upper piedmont.
81	A	Loblolly Pine, Old Field Pine, North Carolina Pine	Pinus taeda	Evergreen	P,C	Tolerant	40'	FS,P	Dry, Moist	Tap, dominant laterals	Low	80' to 100' 2' to 3'	Rounded crown or spreading branches	Seeds, seedlings, containers 3 to 15 gal.	Will grow from deep, poorly drained floodplains to well drained slopes of rolling uplands. 80 yr. Lifespan.
82	A	Virginia Pine, Jersey Pine, Spruce Pine	Pinus virginiana	Evergreen	M,P	Tolerant	25'	FS	Dry, Moist	Dominant laterals	Low	30' to 60' - 1' to 1 1/2'	Open broad irregular crown	Seeds, seedlings, containers 3 to 15 gal.	Prefers clay, loam and sandy loam on well drained sites. Prone to wind throw.
83	B	Sycamore, American Sycamore, American Planetree	Platanus occidentalis	Deciduous	M,P,C	Tolerant	30'	FS	Moist, Dry	Strong Taproot, S1-15'	High	60' to 100' 2' to 4'	Enlarged base, straight trunk, broad open crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful)	Prefers streambanks, floodplains, bottomlands, can grow in dryer areas, transplants easily, can grow 6-8' per year, quick shade tree. Pick location wisely due to fruit dropping. Streambank reforestation recommended.
84	A	American Plum, Red Plum, River Plum	Prunus americana	Deciduous	M,P	Tolerant	10'	FS	Moist	S 1-6'	Low	30' -1'	Thicket forming shrub or small tree, spreading branches	Seed, seedlings, containers, 1 to 10 gal.	Grown for erosion control, moist soils of valleys, low upland slopes, fast grower. Fruit eaten by mammals and birds.
85	A	Chickasaw Plum, Sand Plum	Prunus angustifolia	Deciduous	M,P,C	Tolerant	5'	FS	Moist, Dry	S 1-6'	Low	5' to 15' - 4"	Thicket forming shrub or small tree, spreading branches	Seed, seedlings, containers, 1 to 10 gal.	Grown for erosion control, moist soils of abandoned places, fast grower. Fruit eaten by mammals and birds.

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
86	B	Carolina Laurelcherry, Cherry Laurel, Carolina Cherry	Prunus caroliniana	Deciduous	P,C	Tolerant	20'	FS	Moist	S 1-6'	Low	40' -10"	Thicket forming shrub or small tree, spreading branches	Seed, seedlings, containers, 1 to 10 gal.	Grown for erosion control, moist soils of valleys & lowlands, forests and borders, fast grower, often forms dense thickets. Fruit eaten by many species of birds.
87	A	Pin Cherry, Bird Cherry, Fire Cherry	Prunus pensylvanica	Deciduous	M	Tolerant	15'	FS	Moist, Dry	S 1-6, Good laterials	Low Some	30' -1'	Narrow, open rounded crown	Seeds, seedlings, container 1 to 15 gal. (Cuttings are successful)	Moist soil, opened areas, after fires, used as nurse tree providing shade for second generation hardwoods, fast grower. Fruit eaten by many species of birds.
88	A	Black Cherry, Rum Cherry, Mountain Black Cherry	Prunus serotina	Deciduous	M,P,C	Tolerant	20'	FS	Moist, Dry	S 1-6, Good laterials	Low	50' -1 1/2'	Narrow, open rounded crown	Seeds, seedlings, container 3 to 15 gal.	Moist soil, opened areas, fast grower; susceptible to black knot disease. Fruit eaten by many species of birds.
89	B	Eastern Cottonwood, Carolina Poplar, Southern Cottonwood	Populus deltoides	Deciduous	P,C	Tolerant	30'	FS	Wet, moist	T, S 1-6'	Some	100' -3 to 4'	Massive trunk, open spreading crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful)	Prefers streambanks, floodplains, bottomlands, transplants easily, good shade tree, grows very fast.
90	C	Swamp Cottonwood, Black Cottonwood	Populus heterophylla	Deciduous	P,C	Tolerant	30'	FS	Wet, moist	T, S 1-6'	High	80' -2'	Straight trunk, narrow rounded crown	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful)	Prefers streambanks, floodplains, bottomlands, transplants easily, grows very fast, grows where too wet for Eastern Cottonwood.
91	A	White Oak	Quercus alba	Deciduous	M,P,C	Tolerant	50'	FS,P	Moist, Dry	S 2-5'	Low	80' to100' -3 to 4'	Broad head, thick trunk	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, may have crown spread of 150', transplants easily. Acorns eaten by many species of wildlife.
92	B	Swamp White Oak	Quercus bicolor	Deciduous	P	Tolerant	30'	FS,P	Wet or Moist	T,S 2-5'	High	60'-70'	Vase, narrow open rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Prefers lowlands, floodplains, swamps, mixed forests subject to periodic inundated. Acorns eaten by many species of wildlife.
93	A	Scarlet Oak, Black Oak, Red Oak, Spanish Oak	Quercus coccinea	Deciduous	M, P	Tolerant	30'	FS	Moist, Dry	Dominant Tap Root	Low	60' to 80' - 1 to 2 1/2'	Rounded open crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, brilliant red color in fall. Acorns eaten by many species of wildlife.
94	A	Southern Red Oak, Spanish Oak, Water Oak, Red Oak	Quercus falcata var. falcata	Deciduous	M,P,C	Tolerant	40'	FS	Moist, Dry	T,S 2-5'	Low	50' to 80' - 1 to 2 1/2'	Rounded open crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, dry, sandy & clay soils of uplands, in mixed forests. Acorns eaten by many species of wildlife.
95	A	Cherrybark Oak, Swamp Red Oak, Bottomland Red Oak, Elliott Oak, Red Oak, Swamp Spanish Oak	Quercus falcata var. pagodaefolia	Deciduous	P,C	Tolerant	40'	FS	Moist	T, S 1-6'	Low	100' to 130' -36 to 60"	Rounded open crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, moist soil, next to streambanks, well drained terraces, ph acid to med. acid. Acorns eaten by many species of wildlife.
96	A	Turkey Oak, Catesby Oak, Scrub Oak	Quercus laevis	Deciduous	P,C	Tolerant	30'	FS	Moist, Dry	Dominant Tap Root	Low	20' to 40' - 1'	Irregular open crown of crooked branches	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, dry, sandy ridges. Acorns eaten by many species of wildlife.

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
97	A	Laurel Oak, Darlington Oak, Diamond Leaf Oak, Swamp Laurel Oak, Obtusa Oak	Quercus laurifolia	Evergreen	P,C	Tolerant	40'	FS	Wet, Moist	Dominant Tap Root	Low Some	60' to 80' - 1 to 2 1/1'	Dense, broad, rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing, transplants easily, moist to wet well drained soil, along streambanks, rivers and swamps. Acorns eaten by many species of wildlife.
98	A	Overcup Oak, Swamp Post Oak, Swamp White Oak, Water White Oak	Quercus lyrata	Deciduous	P,C	Tolerant	40'	FS	Wet, Moist	T, S 1-6'	High	60' to 80' - 2 to 3'	Rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing , transplants easily, moist to wet clay, silty clay soil, along streambanks, rivers and swamps. Acorns eaten by many species of wildlife.
99	A	Black Jack Oak, Blackjack, Jack Oak	Quercus marilandica	Deciduous	M,P,C	Tolerant	40'	FS	Dry	Dominant Tap Root	Low	20' to 50' - 1'	open, irregular crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, dry, sandy & clay soils of uplands, in mixed forests. Acorns eaten by many species of wildlife.
100	B	Swamp Chestnut Oak, Basket Oak, Cow Oak	Quercus michauxii	Deciduous	P,C	Tolerant	40'	FS	Moist	T, S 1-6'	Some	60' to 80' - 2 to 3'	Compact, rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, moist soil, next to streambanks, ph acid to med. acid. Acorns eaten by many species of wildlife.
101	A	Chinkapin Oak, Yellow Chestnut Oak, Rock Oak, Yellow Oak	Quercus muehlenbergii	Deciduous	M,P	Tolerant	40'	FS	Moist, Dry	T,S 2-5'	Low	50' to 80' - 2 to 3'	Narrow rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, dry, sandy & clay soils of uplands and rocky riverbanks, in mixed forests. Acorns eaten by many species of wildlife.
102	B	Pin Oak, Swamp Oak, Water Oak, Swamp Spanish Oak	Quercus palustris	Deciduous	P	Tolerant	40'	FS	Wet, Moist	T, S 1-6'	Some	50' to 90' - 1 to 2 1/2'	Broadly conical crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing, transplants easily, moist soil, next to streambanks, poorly drained clay soils, ph acid to med. acid. Acorns eaten by many species of wildlife.
103	B	Willow Oak, Swamp Chestnut Oak, Peach Oak, Pin Oak	Quercus phellos	Deciduous	P,C	Tolerant	40'	FS	Wet, Moist	T, S 1-6'	High	50' to 90' - 1 to 2 1/2'	Conical or rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing, transplants easily, moist soil, next to streambanks, floodplains or bottomlands of streams, poorly drained clay soils, ph acid to med. acid. Commonly occur in upland now, due to lack of fire. Acorns eaten by many species of wildlife.
104	B	Water Oak, Spotted Oak, Possum Oak	Quercus nigra	Deciduous	P, C	Tolerant	40'	FS	Wet, Moist	S 1-6'	Some	50' to 100' - 1 to 2 1/2'	Conical or rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, moist soil, next to streambanks, floodplains, bottomlands of streams and borders of swamp, ph acid to med. acid. Commonly occur in upland now, due to lack of fire. Acorns eaten by many species of wildlife.
105	A	Chestnut Oak, Rock Oak, Tanbark Oak, Rock Chestnut Oak	Quercus prinus (Q. montana)	Deciduous	M,P	Tolerant	40'	FS	Moist, Dry	T, S 1-6'	Low	60' to 80' - 2 to 3'	Broad, open irregular crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, moist soil on well drained bottomlands to dry uplands soils. Acorns eaten by many species of wildlife.

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
106	A	Northern Red Oak, Common Red Oak, Eastern Red Oak, Gray Oak, Mountain Red Oak	Quercus rubra	Deciduous	M,P	Tolerant	40'	FS	Moist	T, S 1-6'	Low	60' to 90' - 1 to 2 1/2'	Rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing, shade & street tree, transplants easily, moist clay or rocky soils. Acorns eaten by many species of wildlife.
107	A	Shumard Oak, Spotted Oak, Schneck Oak, Swamp Red Oak, Southern Red Oak	Quercus shumardii	Deciduous	P,C	Tolerant	40'	FS	Wet, Moist	T, S 1-6'	Some	60' to 90' - 1 to 2 1/2'	Broad, rounded, open crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing, transplants easily, moist well drained soils including floodplains along streams. Acorns eaten by many species of wildlife.
108	B	Post Oak, Iron Oak, Sand Post Oak	Quercus stellata	Deciduous	M,P,C	Tolerant	30'	FS	Moist, Dry	Dominant Tap Root, S-1-6'	Low	30' to 70' - 1' to 2'	Dense Rounded crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Fast growing, transplants easily, moist well drained soil, along streambanks, rivers and swamps and on ridges in dry conditions. Acorns eaten by many species of wildlife.
109	A	Black Oak, Yellow Oak, Quercitron, Smoothbark Oak, Yellowbark Oak	Quercus velutina	Deciduous	M,P,C	Tolerant	40'	FS	Moist, Dry	T, S 1-6'	Low	50' to 80' - 1 to 2 1/2'	Open Spreading Crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Slow growing, transplants easily, dry, sandy & clay soils of uplands and rocky riverbanks, in mixed forests. Acorns eaten by many species of wildlife.
110	A	Live Oak, Virginia Live Oak	Quercus virginiana	Evergreen	P,C	Tolerant	50'	FS	Moist, Dry	T, S 1-6'	Low Some	40' to 50' - 2 to 4'	Very broad, spreading, dense crown	Seedlings, container (3-15 gal) or Dipple acorns over area	Evergreen, large spreading branches, mostly coastal; dry, sandy woods, moist rich woods, & wet woods. Acorns eaten by many species of wildlife.
111	A	Black Locust, Yellow Locust	Robinia pseudo-acacia	Deciduous	M,P	Tolerant	30'	FS	Moist, Dry	Dominant Tap Root, S 1-6'	Low	40' to 80' - 1 to 2'	Open crown, spiny tree	Seeds, seedlings, containers (3-15 gal)	Legume; Fast growing, used in erosion control, deep rooting habit, moist to dry soils, streambanks & uplands.
112	A	Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	Tolerant	5'	FS	Moist, Dry	Dominant Tap Root	Low	25' -6"	Open flattened crown of a few stout, spreading branches	Seeds, seedlings, containers	Fast growing, erosion control, almost any soil. Berries eaten by many birds.
113	A	Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	Tolerant	5'	FS	Moist, Dry	Dominant Tap Root	Low	20' -4"	Open flattened crown of a few stout, spreading branches	Seeds, seedlings, containers	Fast growing, erosion control, almost any soil. Berries eaten by many birds.
114	A	Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	Tolerant	5"	FS	Moist, Dry	Dominant Tap Root	Low	30' -8"	Open flattened crown of a few stout, spreading branches	Seeds, seedlings, containers	Fast growing, erosion control, almost any soil. Berries eaten by many birds.
115	C	Coastal Plain Willow, Swamp Willow, Southern Willow, Ward Willow	Salix caroliniana	Deciduous	P,C	Tolerant	10'	FS	Wet, Moist	S 1-2' Dense	High	30' -1'	Spreading or drooping branches	Seeds, seedlings, containers (Cuttings are successful)	Fast growing, wet, moist soil, streambank, lowlands, bottomland; used for erosion control.
116	C	Black Willow, Swamp Willow, Godding Willow, Dudley Willow	Salix nigra	Deciduous	M,P,C	Tolerant	30'	FS	Wet, Moist	S 1-2' Dense	High	60' to 100' - 1 1/2 to 2 1/2'	Spreading or drooping branches	Seeds, seedlings, containers (Cuttings are successful)	Fast growing, wet, moist soil, streambank, lowlands, bottomland; used for erosion control.

TREES

Native Plants

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	RIPARIAN ZONE	Common Tree Name			Mountain,	Stress	Rate or	Full Sun, (FS)	Soil Moisture:	Root-Tap	Flooding Tolerance	Height	Form	Seed production	Benefits- Growth Habits- Special Notes
2	A - UPLAND BUFFER ZONE		Botanical Name	Evergreen	Piedmont,	Tolerant	Spacing	Partial (P)	Wet, Moist,	Surface	Low	Trunk Diameter			All species provide specific food and habitat for wildlife.
3	B - UPPER			Deciduous	Coastal	Unknown	Min.	Shade	Dry	Depth	Some				
117	A	Sassafras, White Sassafras	Sassafras albidum	Deciduous	M,P,C	Tolerant	20'	FS	Moist, Dry	S 1-3' Strong laterals	Low	30' to 60' - 1 1/2'	Narrow spreading crown or thicket forming schrub	Seeds, seedlings, container- Root suckers	Fast growing, streambank, old fields, transplants easily.
118	A	Bladdernut, American Bladdernut	Staphylea trifolia	Deciduous	P	Unknown	10'	FS,P, Shade	Moist	T, S 1-6'	Low	20' -4"	Shrub or small tree	Seeds, seedlings, containers	Understory species of hardwood forests.
119	A	Sweetleaf, Horse Sugar, Yellowwood	Symplocos tinctoria	Deciduous	M,P,C	Tolerant	10'	FS,P, Shade	Moist	T, S 1-6'	Low Some	35' -6"	Shrub or small tree	Seeds, seedlings, containers	Understory species of hardwood forests. Sandy thickets, upland or alluvial woods, stream margins. Flowers-yellow fragrant. Ornamental value.
120	D	Bald Cypress, Cypress, Swamp Cypress	Taxodium distichum	Deciduous	P,C	Tolerant	30'	FS	Wet or Moist	Major root system for water	High	100' to 120' -3 to 6'	Crown has widely spreading branches flattened at top	Seeds, seedlings, container 3 to 15 gal.	Slow growing, water tolerant tree-growing in slow moving or poorly drained areas, swamps, lowlands, etc.
121	B	Basswood, American Linden, Bee Tree	Tilia americana var. heterophylla	Deciduous	M,P	Tolerant	40'	FS,P	Moist	Major tap root, S 1-6	Low Some	60' to 100' - 2 to 3'	Dense Crown	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, streambank, moist soils of valleys and uplands.
122	A	Eastern Hemlock, Hemlock Spuce,	Tsuga canadensis	Evergreen	M,P	Tolerant	20'	FS,P, Shade	Moist	Major tap root, S 1-6	Low	60' to 70' - 2 to 3'	Conical Crown	Seeds, seedlings, containers 3 to 15 gal.	Slow growing, long lived, understory or topstory species, moist soil needed.
123	A	Carolina Hemlock	Tsuga caroliniana	Evergreen	M,P	Tolerant	20'	FS,P	Moist, Dry	Major tap root, S 1-6	Low	40' to 60' - 2'	Conical Crown	Seeds, seedlings, containers 3 to 15 gal.	Slow growing, long lived, topstory species, dry slopes, rocky ridges, mixed forests.
124	A	Winged Elm, Cork Elm, Wahoo	Ulmus alata	Deciduous	M,P,C	Tolerant	30'	FS,P	Moist, Dry	T, S 1-6'	Low	40' to 80' - 1 to 2'	Open Rounded Crown	Seeds, seedlings, containers 3 to 15 gal.	Fast growing in open, dry uplands or moist valleys in hardwood forest.
125	A	American Elm, White Elm, Water Elm, Soft Elm, Florida Elm	Ulmus americana	Deciduous	M,P,C	Tolerant	30'	FS,P	Moist, Dry	T, S 1-6'	Low Some	100' -4'	Broad, rounded, flattopped or vase crown	Seeds, seedlings, containers 3 to 15 gal.	Prone to Dutch Elm Disease, moist soils, valleys and floodplains, in mixed hardwoods.
126	B	Slippery Elm, Red Elm, Soft Elm, Gray Elm	Ulmus rubra	Deciduous	M,P,C	Tolerant	30'	FS,P	Moist, Dry	T, S 1-6'	Low Some	70' -2 to 3'	Broad open flat topped crown	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, moist soils on lower slopes, floodplains but can grow on dry uplands.