

HUC 031601 Black Warrior-Tombigbee

HUC 6 Watershed Climate Change Atlas Tree Species

USDA Forest Service
Northern Research Station
Landscape Change Research Group
Iverson, Peters, Prasad, Matthews

Current and Potential Future Habitat, Capability, and Migration

Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
loblolly pine	Pinus taeda	WDH	High	90.4	3374.2	31.3	No change	No change	Medium	Abundant	Good	Good			1	1
sweetgum	Liquidambar styraciflua	WDH	High	87.5	998.8	9.4	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	2
yellow-poplar	Liriodendron tulipifera	WDH	High	62	446.8	5.6	Lg. dec.	Lg. dec.	High	Common	Fair	Fair			1	3
white oak	Quercus alba	WDH	Medium	66.3	435.7	5.5	No change	No change	High	Common	Good	Good			1	4
water oak	Quercus nigra	WDH	High	67.2	400.1	5.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	5
red maple	Acer rubrum	WDH	High	77.8	369.1	4.0	No change	Sm. inc.	High	Common	Good	Very Good			1	6
southern red oak	Quercus falcata	WDL	Medium	63.2	331.2	4.1	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	7
eastern redcedar	Juniperus virginiana	WDH	Medium	37.9	306.0	6.4	No change	Sm. inc.	Medium	Common	Fair	Good			1	8
Virginia pine	Pinus virginiana	NDH	High	25.9	304.3	10.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	9
mockernut hickory	Carya alba	WDL	Medium	59.9	232.6	3.2	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	10
blackgum	Nyssa sylvatica	WDL	Medium	69.3	202.9	2.4	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	11
shortleaf pine	Pinus echinata	WDH	High	43.5	198.4	3.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	12
post oak	Quercus stellata	WDH	High	51	195.6	3.1	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	13
pignut hickory	Carya glabra	WDL	Medium	57.5	181.9	2.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	14
green ash	Fraxinus pennsylvanica	WSH	Low	35.2	160.6	4.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	15
sugarberry	Celtis laevigata	NDH	Medium	21.3	151.5	6.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	16
chestnut oak	Quercus prinus	NDH	High	24.4	147.1	4.4	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	17
black cherry	Prunus serotina	WDL	Medium	57.1	130.8	1.8	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	18
winged elm	Ulmus alata	WDL	Medium	51.4	128.9	2.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	19
sourwood	Oxydendrum arboreum	NDL	High	42.8	116.2	2.3	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	20
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	25.1	112.8	3.8	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	21
black oak	Quercus velutina	WDH	High	32.7	88.5	2.2	No change	No change	Medium	Common	Fair	Fair			1	22
flowering dogwood	Cornus florida	WDL	Medium	53	83.4	1.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	23
willow oak	Quercus phellos	NSL	Low	20.6	83.1	3.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	24
American hornbeam; muscley	Carpinus caroliniana	WSL	Low	28.6	72.1	2.1	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	25
black willow	Salix nigra	NSH	Low	13.8	70.2	4.5	Sm. inc.	Lg. inc.	Low	Common	Fair	Good			1	26
shagbark hickory	Carya ovata	WSL	Medium	20.7	62.4	2.7	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	27
American beech	Fagus grandifolia	WDH	High	24.5	54.9	1.8	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	28
northern red oak	Quercus rubra	WDH	Medium	23	52.6	1.8	No change	Sm. dec.	High	Common	Good	Fair			1	29
American elm	Ulmus americana	WDH	Medium	16.6	52.0	2.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	30
scarlet oak	Quercus coccinea	WDL	Medium	20.3	50.3	2.0	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	31
Osage-orange	Maclura pomifera	NDH	Medium	9.1	49.0	6.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	32
boxelder	Acer negundo	WSH	Low	11.4	48.0	3.9	Sm. dec.	No change	High	Rare	Poor	Fair			1	33
sycamore	Platanus occidentalis	NSL	Low	12.7	46.4	3.3	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	34
overcup oak	Quercus lyrata	NSL	Medium	8.5	45.1	5.8	No change	No change	Low	Rare	Very Poor	Very Poor			0	35
swamp tupelo	Nyssa biflora	NDH	Medium	4.6	40.7	7.7	No change	No change	Low	Rare	Very Poor	Very Poor			0	36
longleaf pine	Pinus palustris	NSH	Medium	5.1	40.0	6.5	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	37
common persimmon	Diospyros virginiana	NSL	Low	30.8	39.8	1.1	No change	Sm. inc.	High	Rare	Fair	Good			1	38
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	22	39.1	1.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	39
white ash	Fraxinus americana	WDL	Medium	11.6	38.4	2.3	No change	Sm. inc.	Low	Rare	Very Poor	Poor			1	40
sweetbay	Magnolia virginiana	NSL	Medium	9.9	38.2	3.2	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	41
water tupelo	Nyssa aquatica	NSH	Medium	5.1	37.3	6.5	No change	No change	Low	Rare	Very Poor	Very Poor			2	42
river birch	Betula nigra	NSL	Low	8.5	35.8	4.0	No change	No change	Medium	Rare	Poor	Poor			1	43
Shumard oak	Quercus shumardii	NSL	Low	7.5	33.4	3.8	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	1	44
laurel oak	Quercus laurifolia	NDH	Medium	12.4	29.3	2.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	45
bigleaf magnolia	Magnolia macrophylla	NSL	Low	9.2	26.8	2.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	46
red mulberry	Morus rubra	NSL	Low	13.5	26.2	1.3	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	47



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eastern redbud	Cercis canadensis	NSL	Low	11	24.7	1.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	48
sassafras	Sassafras albidum	WSL	Low	17.6	22.9	1.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	49
blackjack oak	Quercus marilandica	NSL	Medium	9.6	22.8	1.7	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	50
florida maple	Acer barbatum	NSL	Low	12.9	22.7	1.5	No change	No change	High	Rare	Fair	Fair			1	51
slippery elm	Ulmus rubra	WSL	Low	11.6	22.5	1.7	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	52
Nuttall oak	Quercus texana	NSH	Medium	3.6	20.0	6.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	53
swamp chestnut oak	Quercus michauxii	NSL	Low	9.2	18.5	1.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	54
bald cypress	Taxodium distichum	NSH	Medium	2.7	17.7	6.3	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	55
pecan	Carya illinoensis	NSH	Low	5.1	17.1	3.2	No change	Lg. inc.	Low	Rare	Very Poor	Fair		Infill +	2	56
eastern cottonwood	Populus deltoides	NSH	Low	3.8	15.0	3.5	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	57
eastern hemlock	Tsuga canadensis	NSH	High	1.8	14.9	6.5	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	58
hackberry	Celtis occidentalis	WDH	Medium	1.9	11.9	4.2	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	2	59
black walnut	Juglans nigra	WDH	Low	2.9	11.6	3.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	60
slash pine	Pinus elliotii	NDH	High	0.8	11.0	8.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	61
durand oak	Quercus sinuata var. sinuata	NSL	FIA	2.7	10.8	2.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	62
American holly	Ilex opaca	NSL	Medium	9.1	9.0	0.9	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	63
bitternut hickory	Carya cordiformis	WSL	Low	6.3	8.1	1.4	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	64
chinkapin oak	Quercus muehlenbergii	NSL	Medium	3.2	7.7	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	65
paulownia	Paulownia tomentosa	NSL	FIA	1.8	5.7	2.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	66
shellbark hickory	Carya laciniosa	NSL	Low	3.8	5.6	1.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	67
black locust	Robinia pseudoacacia	NDH	Low	2	5.0	2.0	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	68
honeylocust	Gleditsia triacanthos	NSH	Low	1.9	4.8	2.0	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	69
water hickory	Carya aquatica	NSL	Medium	1.2	3.1	2.4	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	70
American basswood	Tilia americana	WSL	Medium	2.4	3.0	1.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	71
serviceberry	Amelanchier spp.	NSL	Low	5.1	3.0	0.5	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	72
sugar maple	Acer saccharum	WDH	High	0.6	2.9	1.8	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	73
cucumbertree	Magnolia acuminata	NSL	Low	2.1	2.4	0.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	74
silver maple	Acer saccharinum	NSH	Low	0.7	2.1	1.7	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	75
black hickory	Carya texana	NDL	High	1.5	1.9	1.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	76
waterlocust	Gleditsia aquatica	NSLX	FIA	0.3	1.3	5.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	77
water elm	Planera aquatica	NSL	Low	0.8	1.2	1.6	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	78
wild plum	Prunus americana	NSLX	FIA	1.1	1.2	0.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	79
white mulberry	Morus alba	NSL	FIA	0.2	1.1	2.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	80
sand hickory	Carya pallida	NSL	FIA	0.3	0.9	3.8	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	81
yellow buckeye	Aesculus flava	NSL	Low	0.1	0.3	0.4	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	82
sweet birch	Betula lenta	NDH	High	0.2	0.2	0.8	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	83
turkey oak	Quercus laevis	NSH	Medium	0.3	0.2	0.8	No change	No change	High	Rare	Fair	Fair			0	84
redbay	Persea borbonia	NSL	Low	0.1	0.2	0.4	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	85
butternut	Juglans cinerea	NSLX	FIA	0.2	0.1	0.4	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	86
pawpaw	Asimina triloba	NSL	Low	0.3	0.1	0.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	87
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0.3	0.1	0.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	88
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	89
spruce pine	Pinus glabra	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	90
Table Mountain pine	Pinus pungens	NSL	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			3	91
pitch pine	Pinus rigida	NSH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	92
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	93
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	94



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loblolly-bay	Gordonia lasianthus	NSH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	95
silverbell	Halesia spp.	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	96
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	97
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	98
swamp white oak	Quercus bicolor	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	99
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	100
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	101
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	102