

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	86.2	2916.46	36.03	Sm. dec.	Sm. dec.	Medium	Abundant	Fair	Fair			0	1
sweetgum	Liquidambar styraciflua	WDH	High	83.3	825.7	10.47	No change	No change	Medium	Abundant	Good	Good			1	2
slash pine	Pinus elliotii	NDH	High	48.5	788.8	18.51	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	3
water oak	Quercus nigra	WDH	High	69.4	574.24	8.22	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	4
red maple	Acer rubrum	WDH	High	67.1	544.92	8.34	No change	No change	High	Abundant	Very Good	Very Good			1	5
swamp tupelo	Nyssa biflora	NDH	Medium	58.6	412.35	6.93	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	6
laurel oak	Quercus laurifolia	NDH	Medium	57.2	323.41	6.12	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	7
longleaf pine	Pinus palustris	NSH	Medium	28.9	237.68	9.13	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	8
live oak	Quercus virginiana	NDH	High	44.9	233.87	6.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	9
pond pine	Pinus serotina	NSH	Medium	20.5	152.58	8.48	No change	No change	Low	Common	Poor	Poor			0	10
willow oak	Quercus phellos	NSL	Low	24.1	125.23	5.1	No change	Sm. inc.	Medium	Common	Fair	Good			1	11
redbay	Persea borbonia	NSL	Low	37.1	95.66	2.56	No change	No change	High	Common	Good	Good			1	12
pond cypress	Taxodium ascendens	NSH	Medium	16.1	94.71	5.74	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	13
cabbage palmetto	Sabal palmetto	NDH	Medium	10.2	79.65	23.77	Sm. inc.	Lg. inc.	NA	Common	Unknown	Unknown			0	14
bald cypress	Taxodium distichum	NSH	Medium	11.6	72.4	6.26	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	15
blackgum	Nyssa sylvatica	WDL	Medium	26.3	63.27	2.44	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	16
sweetbay	Magnolia virginiana	NSL	Medium	23.1	61.4	2.66	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	17
southern red oak	Quercus falcata	WDL	Medium	13.4	60.14	5.23	No change	Lg. inc.	High	Common	Good	Very Good			1	18
black willow	Salix nigra	NSH	Low	9.5	46.27	4.17	No change	No change	Low	Rare	Very Poor	Very Poor			0	19
cherrybark oak; swamp red oak	Quercus pagoda	NSL	Medium	11.3	42.42	3.56	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	1	20
green ash	Fraxinus pennsylvanica	WSH	Low	14.9	36.1	2.36	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	21
loblolly-bay	Gordonia lasianthus	NSH	Medium	11.4	33.16	2.81	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	22
water tupelo	Nyssa aquatica	NSH	Medium	6.9	30.59	4.41	No change	No change	Low	Rare	Very Poor	Very Poor			2	23
southern magnolia	Magnolia grandiflora	NSL	Low	9.4	28.56	4.14	No change	No change	Medium	Rare	Poor	Poor			1	24
yellow-poplar	Liriodendron tulipifera	WDH	High	10.4	28.02	2.69	Lg. dec.	Sm. dec.	High	Rare	Poor	Poor		Infill +	1	25
common persimmon	Diospyros virginiana	NSL	Low	10.7	26.53	2.39	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			1	26
American elm	Ulmus americana	WDH	Medium	10.3	20.69	1.93	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	27
black cherry	Prunus serotina	WDL	Medium	13.9	20.66	1.76	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair			1	28
American holly	Ilex opaca	NSL	Medium	14.9	16.84	1.11	No change	Sm. inc.	Medium	Rare	Poor	Fair			1	29
swamp chestnut oak	Quercus michauxii	NSL	Low	6.9	15.84	2.28	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	30
eastern redcedar	Juniperus virginiana	WDH	Medium	9.6	15.65	4.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	31
mockernut hickory	Carya alba	WDL	Medium	5.4	10.92	1.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	32
turkey oak	Quercus laevis	NSH	Medium	2.3	10.36	4.48	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	33
white oak	Quercus alba	WDH	Medium	6.8	9	1.28	Sm. dec.	No change	High	Rare	Poor	Fair		Infill +	2	34
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	8.1	8.23	1.02	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	35
post oak	Quercus stellata	WDH	High	6.9	7.48	1.08	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	36
water hickory	Carya aquatica	NSL	Medium	3.5	6.22	1.79	No change	No change	Medium	Rare	Poor	Poor		Infill +	2	37
pecan	Carya illinoensis	NSH	Low	4.1	5.69	3.34	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	38
sugarberry	Celtis laevigata	NDH	Medium	3.4	5.51	1.52	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	39
overcup oak	Quercus lyrata	NSL	Medium	2.3	5.35	2.31	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	2	40
pignut hickory	Carya glabra	WDL	Medium	4.6	5.24	1.12	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	41
sassafras	Sassafras albidum	WSL	Low	8.7	5.09	0.75	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	42
eastern hophornbeam; ironwood	Ostrya virginiana	WSL	Low	3.5	5.02	1.44	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	43
ogeechee tupelo	Nyssa ogeche	NSLX	FIA	1.2	3.81	3.3	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	44
slippery elm	Ulmus rubra	WSL	Low	3.5	3.56	1.02	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	45
spruce pine	Pinus glabra	NSL	Low	2.3	3.07	1.33	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	46
shortleaf pine	Pinus echinata	WDH	High	2.3	2.98	1.29	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good		Infill ++	2	47
red mulberry	Morus rubra	NSL	Low	4.1	2.67	2.57	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	48
flowering dogwood	Cornus florida	WDL	Medium	3.5	2.57	0.74	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	49
eastern cottonwood	Populus deltoides	NSH	Low	1.2	1.56	1.35	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	50
sand hickory	Carya pallida	NSL	FIA	1	1.24	0.92	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	51
black oak	Quercus velutina	WDH	High	2.3	1.16	0.5	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	52
American beech	Fagus grandifolia	WDH	High	1.2	1.08	0.93	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	53

**National Park**  
Climate Change Atlas Tree Species  
Current and Potential Future Habitat, Capability, and Migration

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winged elm	Ulmus alata	WDL	Medium	1.2	0.81	0.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	54
bluejack oak	Quercus incana	NSL	Low	1.2	0.73	0.63	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			2	55
Virginia pine	Pinus virginiana	NDH	High	1.2	0.35	0.3	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	56
boxelder	Acer negundo	WSH	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat		Migrate +	3	57
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	58
river birch	Betula nigra	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	59
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	60
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	61
shagbark hickory	Carya ovata	WSL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	62
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	63
eastern redbud	Cercis canadensis	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	64
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	65
honeylocust	Gleditsia triacanthos	NSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	66
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	67
cucumbertree	Magnolia acuminata	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	68
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	69
water elm	Planera aquatica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	70
sycamore	Platanus occidentalis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	71
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	72
scarlet oak	Quercus coccinea	WDL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	73
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	74
Nuttall oak	Quercus texana	NSH	Medium	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			0	75
northern red oak	Quercus rubra	WDH	Medium	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	76
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	77
American basswood	Tilia americana	WSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	78
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	79