

National Park
 Climate Change Atlas Tree Species
 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
bald cypress	Taxodium distichum	NSH	Medium	47.7	358.2	21.19	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +		1 1
water tupelo	Nyssa aquatica	NSH	Medium	25.6	283.45	27.01	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +		0 2
red maple	Acer rubrum	WDH	High	52.3	217.83	21.41	Sm. inc.	No change	High	Common	Very Good	Good	Infill ++	Infill ++		1 3
loblolly pine	Pinus taeda	WDH	High	18.6	210.75	30.14	No change	Sm. inc.	Medium	Common	Fair	Good	Infill +			2 4
water oak	Quercus nigra	WDH	High	33.7	130.08	18.15	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +		1 5
American elm	Ulmus americana	WDH	Medium	42.8	91.99	8.19	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +		1 6
green ash	Fraxinus pennsylvanica	WSH	Low	40.7	90.3	10.17	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++		1 7
sweetgum	Liquidambar styraciflua	WDH	High	45.3	89.35	10.34	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++		1 8
black willow	Salix nigra	NSH	Low	18.4	55.56	14.67	Sm. inc.	Lg. inc.	Low	Common	Fair	Good	Infill +	Infill ++		1 9
sugarberry	Celtis laevigata	NDH	Medium	32.5	41.89	6.81	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++		1 10
boxelder	Acer negundo	WSH	Low	20.9	41	8.31	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +		1 11
Nuttall oak	Quercus texana	NSH	Medium	8.1	20.61	4.53	No change	No change	High	Rare	Fair	Fair				0 12
cherrybark oak; swamp red oak	Quercus pagoda	NSL	Medium	11.6	14.63	5.04	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +		2 13
American hornbeam; muscled	Carpinus caroliniana	WSL	Low	2.3	9.88	4.25	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +		2 14
willow oak	Quercus phellos	NSL	Low	9.3	8.36	14.38	No change	Lg. inc.	Medium	Rare	Poor	Good	Infill +			2 15
overcup oak	Quercus lyrata	NSL	Medium	5.8	8.15	11.09	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +		2 16
laurel oak	Quercus laurifolia	NDH	Medium	10.5	7.61	7.68	Lg. inc.	Sm. inc.	Medium	Rare	Good	Fair		Infill +		2 17
live oak	Quercus virginiana	NDH	High	18.6	6.88	5.92	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good				2 18
winged elm	Ulmus alata	WDL	Medium	19.8	6.86	3.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++		2 19
swamp chestnut oak	Quercus michauxii	NSL	Low	1.2	6.34	5.45	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +		2 20
blackgum	Nyssa sylvatica	WDL	Medium	11.6	4.71	2.21	Lg. inc.	Lg. inc.	High	Rare	Good	Good				2 21
pecan	Carya illinoensis	NSH	Low	13.9	3.29	3.77	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair		Infill +		2 22
mockernut hickory	Carya alba	WDL	Medium	2.3	3.23	1.39	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +		2 23
slippery elm	Ulmus rubra	WSL	Low	10.5	3.16	3.22	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++		2 24
water hickory	Carya aquatica	NSL	Medium	18.6	2.64	2.27	No change	Lg. inc.	Medium	Rare	Poor	Good	Infill +	Infill ++		2 25
post oak	Quercus stellata	WDH	High	4.6	1.85	6.35	Lg. inc.	Lg. inc.	High	Rare	Good	Good				2 26
pond cypress	Taxodium ascendens	NSH	Medium	4.6	1.52	5.25	No change	Lg. inc.	Medium	Rare	Poor	Good				2 27
honeysuckle	Gleditsia triacanthos	NSH	Low	9.3	1.09	1.88	No change	Lg. inc.	High	Rare	Fair	Good				2 28
black cherry	Prunus serotina	WDL	Medium	5.8	0.78	0.8	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +		2 29
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	9.3	0.65	1.12	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor				0 30
red mulberry	Morus rubra	NSL	Low	1.2	0.46	0.4	Sm. inc.	No change	Medium	Rare	Fair	Poor				0 31
sassafras	Sassafras albidum	WSL	Low	5.8	0.31	0.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor				0 32
pignut hickory	Carya glabra	WDL	Medium	1.2	0.27	0.23	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor				0 33
American basswood	Tilia americana	WSL	Medium	4.6	0.27	0.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor				0 34
sycamore	Platanus occidentalis	NSL	Low	4.6	0.23	0.8	No change	Sm. inc.	Medium	Rare	Poor	Fair		Infill +		2 35
American holly	Ilex opaca	NSL	Medium	4.6	0.15	0.53	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good				2 36
black oak	Quercus velutina	WDH	High	4.6	0.12	0.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor				0 37
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +			3 38
eastern redcedar	Juniperus virginiana	WDH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown				0 39
shortleaf pine	Pinus echinata	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +		3 40
slash pine	Pinus elliotii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +		3 41
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +		3 42
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown				0 43
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat				3 44
pawpaw	Asimina triloba	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown				0 45
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +		3 46
bitternut hickory	Carya cordiformis	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +		3 47
flowering dogwood	Cornus florida	WDL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown				0 48
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown				0 49
loblolly-bay	Gordonia lasianthus	NSH	Medium	0	0	0	Unknown	Unknown	Unknown	Absent	Unknown	Unknown				0 50
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown				0 51
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +		3 52
sweetbay	Magnolia virginiana	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +		3 53

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bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	54
swamp tupelo	Nyssa biflora	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Likely +	Likely +	3	55
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	56
water elm	Planera aquatica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	57
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat		Likely +	3	58
southern red oak	Quercus falcata	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	59
cabbage palmetto	Sabal palmetto	NDH	Medium	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	60
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	61