

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	84.3	2903.25	34.42	No change	No change	Medium	Abundant	Good	Good			1	1
shortleaf pine	Pinus echinata	WDH	High	81.9	1678.65	20.49	No change	No change	Medium	Abundant	Good	Good			1	2
white oak	Quercus alba	WDH	Medium	91.6	1044.88	11.41	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	3
sweetgum	Liquidambar styraciflua	WDH	High	86.7	735.24	8.48	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	4
post oak	Quercus stellata	WDH	High	77.1	453.52	5.88	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	5
black hickory	Carya texana	NDL	High	69.9	316.4	4.53	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	6
winged elm	Ulmus alata	WDL	Medium	83.1	286.25	3.44	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	7
red maple	Acer rubrum	WDH	High	75.9	262.47	3.46	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	8
southern red oak	Quercus falcata	WDL	Medium	65.1	260.55	4	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	9
blackgum	Nyssa sylvatica	WDL	Medium	86.7	237.77	2.74	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	10
mockernut hickory	Carya alba	WDL	Medium	78.3	211.87	2.71	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	11
northern red oak	Quercus rubra	WDH	Medium	56.6	203.82	3.6	No change	No change	High	Common	Good	Good			1	12
black oak	Quercus velutina	WDH	High	54.2	148.98	2.75	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	13
willow oak	Quercus phellos	NSL	Low	27.7	122.06	4.41	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	14
black cherry	Prunus serotina	WDL	Medium	59	111.42	1.89	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	15
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	51.8	107.01	2.06	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	16
water oak	Quercus nigra	WDH	High	32.5	94.82	2.92	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	17
green ash	Fraxinus pennsylvanica	WSH	Low	49.4	93.71	1.9	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	18
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	39.8	88.53	2.23	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	19
flowering dogwood	Cornus florida	WDL	Medium	60.2	64.05	1.06	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	20
eastern redcedar	Juniperus virginiana	WDH	Medium	26.5	63.54	2.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	21
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	21.7	53.58	2.47	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	22
blackjack oak	Quercus marilandica	NSL	Medium	25.3	42.93	1.7	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	23
river birch	Betula nigra	NSL	Low	4.8	30.18	6.26	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	24
hackberry	Celtis occidentalis	WDH	Medium	6	28.87	4.79	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	25
sugarberry	Celtis laevigata	NDH	Medium	16.9	28.67	1.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	26
American holly	Ilex opaca	NSL	Medium	20.5	27.88	1.36	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	27
sycamore	Platanus occidentalis	NSL	Low	9.6	20.94	2.17	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	28
bald cypress	Taxodium distichum	NSH	Medium	1.2	20	16.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	29
honeylocust	Gleditsia triacanthos	NSH	Low	6	18.34	3.04	No change	Sm. inc.	High	Rare	Fair	Good			1	30
slippery elm	Ulmus rubra	WSL	Low	14.5	15.43	1.07	Sm. dec.	Sm. inc.	Medium	Rare	Very Poor	Fair			1	31
pignut hickory	Carya glabra	WDL	Medium	6	14.78	2.45	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	32
shagbark hickory	Carya ovata	WSL	Medium	4.8	14.67	3.05	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	33
American elm	Ulmus americana	WDH	Medium	13.3	13.84	1.04	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	34
Shumard oak	Quercus shumardii	NSL	Low	6	12.28	2.04	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	35
common persimmon	Diospyros virginiana	NSL	Low	7.2	10.92	1.51	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	36
swamp chestnut oak	Quercus michauxii	NSL	Low	4.8	10.57	2.19	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	37
Nuttall oak	Quercus texana	NSH	Medium	1.2	10.57	8.77	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	38
silver maple	Acer saccharinum	NSH	Low	1.2	10.12	8.4	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	39
black walnut	Juglans nigra	WDH	Low	2.4	9.88	4.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	40
boxelder	Acer negundo	WSH	Low	2.4	9.76	4.05	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	41
overcup oak	Quercus lyrata	NSL	Medium	3.6	9.22	2.55	No change	No change	Low	Rare	Very Poor	Very Poor			2	42
chinkapin oak	Quercus muehlenbergii	NSL	Medium	3.6	9	2.49	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	43
red mulberry	Morus rubra	NSL	Low	13.3	8.9	0.67	Sm. dec.	Lg. inc.	Medium	Rare	Very Poor	Good			1	44
bitternut hickory	Carya cordiformis	WSL	Low	10.8	8.75	0.81	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			1	45
white ash	Fraxinus americana	WDL	Medium	7.2	8.23	1.14	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor	Infill +	Infill +	1	46
American basswood	Tilia americana	WSL	Medium	6	8.02	1.33	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	47
sassafras	Sassafras albidum	WSL	Low	8.4	6.51	0.77	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	48
shellbark hickory	Carya laciniosa	NSL	Low	1.2	6.29	5.22	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	49
American beech	Fagus grandifolia	WDH	High	2.4	5.96	2.48	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	50
serviceberry	Amelanchier spp.	NSL	Low	12	5.86	0.49	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	51
eastern redbud	Cercis canadensis	NSL	Low	4.8	5.06	1.05	No change	No change	Medium	Rare	Poor	Poor			1	52
florida maple	Acer barbatum	NSL	Low	2.4	2.04	0.84	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	53

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

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sweetbay	Magnolia virginiana	NSL	Medium	4.8	1.55	0.32	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	54
paulownia	Paulownia tomentosa	NSL	FIA	1.2	1.08	0.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	55
wild plum	Prunus americana	NSLX	FIA	2.4	0.82	0.34	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	56
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp	NSL	Low	1.2	0.76	0.63	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	57
black willow	Salix nigra	NSH	Low	1.2	0.24	0.2	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	58
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	59
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	60
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	61
Virginia pine	Pinus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	62
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat				63
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	64
sweet birch	Betula lenta	NDH	High	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	65
water hickory	Carya aquatica	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	66
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Likely +	Likely +	3	67
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	68
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	69
yellow-poplar	Liriodendron tulipifera	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	70
cucumbertree	Magnolia acuminata	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	71
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	72
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	73
swamp tupelo	Nyssa biflora	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	74
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	75
redbay	Persea borbonia	NSL	Low	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	76
water elm	Planera aquatica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	77
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	78
scarlet oak	Quercus coccinea	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	79
laurel oak	Quercus laurifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	80
chestnut oak	Quercus prinus	NDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	81
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	82
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	83
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Likely +	Likely +	3	84