

Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
red maple	Acer rubrum	WDH	High	92.9	1454.71	17.94	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	1
chestnut oak	Quercus prinus	NDH	High	73.8	920.25	14.79	No change	No change	High	Abundant	Very Good	Very Good			1	2
white ash	Fraxinus americana	WDL	Medium	71.4	631.95	10.16	No change	Sm. dec.	Low	Abundant	Fair	Fair			0	3
white oak	Quercus alba	WDH	Medium	65.5	589.05	9.54	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good			1	4
northern red oak	Quercus rubra	WDH	Medium	76.2	577.43	8.97	No change	No change	High	Abundant	Very Good	Very Good			1	5
sweet birch	Betula lenta	NDH	High	72.6	511.48	8.91	Sm. dec.	Sm. dec.	Low	Abundant	Fair	Fair			0	6
eastern white pine	Pinus strobus	WDH	High	32.1	441.62	13.74	Sm. dec.	Lg. dec.	Low	Common	Poor	Very Poor			0	7
sugar maple	Acer saccharum	WDH	High	44	377.77	9.51	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	8
black cherry	Prunus serotina	WDL	Medium	47.6	270.18	7.64	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	9
yellow-poplar	Liriodendron tulipifera	WDH	High	22.6	235.5	12.83	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	10
eastern hemlock	Tsuga canadensis	NSH	High	27.4	235.2	8.59	No change	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +	0	11
eastern redcedar	Juniperus virginiana	WDH	Medium	27.4	222.74	11.4	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	1	12
scarlet oak	Quercus coccinea	WDL	Medium	31	218.21	7.05	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	13
pignut hickory	Carya glabra	WDL	Medium	50	209.96	4.54	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	14
black oak	Quercus velutina	WDH	High	51.2	173.87	4.72	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	15
American beech	Fagus grandifolia	WDH	High	28.6	161.27	6.53	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	16
sassafras	Sassafras albidum	WSL	Low	42.9	148.13	4.24	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	17
yellow birch	Betula alleghaniensis	NDL	High	39.3	123.27	3.58	No change	Sm. dec.	Medium	Common	Fair	Poor			1	18
blackgum	Nyssa sylvatica	WDL	Medium	32.1	118.63	4.18	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	19
black walnut	Juglans nigra	WDH	Low	20.2	110.69	10.75	No change	Sm. inc.	Medium	Common	Fair	Good			1	20
shagbark hickory	Carya ovata	WSL	Medium	26.2	74.11	3.31	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	21
bigtooth aspen	Populus grandidentata	NSL	Medium	16.7	65.13	3.91	Sm. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	22
pitch pine	Pinus rigida	NSH	High	22.6	58.35	2.58	Sm. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	23
hackberry	Celtis occidentalis	WDH	Medium	3.6	56.05	15.69	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	24
serviceberry	Amelanchier spp.	NSL	Low	33.3	54.87	1.65	Sm. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	25
swamp white oak	Quercus bicolor	NSL	Low	4.8	40.14	8.43	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	26
red spruce	Picea rubens	NDH	High	8.3	40.06	4.81	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	27
ailanthus	Ailanthus altissima	NSL	FIA	4.8	37.81	7.94	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	28
American elm	Ulmus americana	WDH	Medium	15.5	37.58	4.07	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	2	29
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	22.6	32.87	1.75	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	30
green ash	Fraxinus pennsylvanica	WSH	Low	11.9	32.57	6.42	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	31
flowering dogwood	Cornus florida	WDL	Medium	10.7	29.06	2.71	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	32
gray birch	Betula populifolia	NSL	Low	9.5	27.36	2.87	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	33
American basswood	Tilia americana	WSL	Medium	8.3	26.44	3.17	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	34
pin oak	Quercus palustris	NSH	Low	7.1	26.32	9.31	No change	No change	Low	Rare	Very Poor	Very Poor			0	35
black locust	Robinia pseudoacacia	NDH	Low	3.6	24.98	6.99	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	36
mockernut hickory	Carya alba	WDL	Medium	22.6	21.71	1.72	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	37
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	14.3	15.75	1.56	No change	Lg. inc.	Medium	Rare	Poor	Good	Infill +	Infill ++	1	38
black willow	Salix nigra	NSH	Low	1.2	15.44	12.97	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	39
tamarack (native)	Larix laricina	NSH	High	1.2	14.21	11.94	Lg. dec.	Very Lg. dec.	Low	Rare	Very Poor	Lost			0	40
boxelder	Acer negundo	WSH	Low	6	12.11	11.64	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	41
Norway maple	Acer platanoides	NSL	FIA	2.4	11.31	4.75	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	42
bitternut hickory	Carya cordiformis	WSL	Low	1.2	8.3	6.97	No change	Lg. inc.	High	Rare	Fair	Good	Infill +	Infill ++	2	43
silver maple	Acer saccharinum	NSH	Low	1.2	7.74	6.5	Sm. dec.	No change	High	Rare	Poor	Fair		Infill +	2	44
pin cherry	Prunus pennsylvanica	NSL	Low	1.2	5.44	4.57	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	45
Scotch pine	Pinus sylvestris	NSH	FIA	1.2	4.88	4.1	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	46
black ash	Fraxinus nigra	WSH	Medium	2.4	4.4	1.85	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	47
slippery elm	Ulmus rubra	WSL	Low	2.4	3.08	1.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	48
quaking aspen	Populus tremuloides	WDH	High	7.1	3.07	1.01	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	49
striped maple	Acer pensylvanicum	NSL	Medium	4.8	2.63	0.55	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	50
jack pine	Pinus banksiana	NSH	Medium	1.2	2.44	2.05	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	51
American chestnut	Castanea dentata	NSLX	FIA	2.4	2.14	0.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	52
white spruce	Picea glauca	NSL	Medium	1.2	1.07	0.9	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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bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	1.2	1.07	0.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	54
chinkapin oak	Quercus muehlenbergii	NSL	Medium	1.2	0.65	0.55	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	55
chokecherry	Prunus virginiana	NSLX	FIA	1.2	0.56	0.47	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	56
shortleaf pine	Pinus echinata	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	57
loblolly pine	Pinus taeda	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	58
Virginia pine	Pinus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	59
florida maple	Acer barbatum	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	60
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	61
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	62
pecan	Carya illinoensis	NSH	Low	0	0	0	Unknown	New Habitat	Low	Absent	Unknown	New Habitat			3	63
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	64
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	65
eastern redbud	Cercis canadensis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	66
common persimmon	Diospyros virginiana	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	67
sweetgum	Liquidambar styraciflua	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	68
cucumbertree	Magnolia acuminata	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	69
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0	0	0	Unknown	Unknown	NA	Absent	Unknown	Unknown			0	70
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	71
sycamore	Platanus occidentalis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	72
southern red oak	Quercus falcata	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	73
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	74
blackjack oak	Quercus marilandica	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	75
willow oak	Quercus phellos	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat		Migrate +	3	76
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	77
winged elm	Ulmus alata	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	78