

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
quaking aspen	Populus tremuloides	WDH	High	93.7	2079.47	20.02	No change	Sm. dec.	Medium	Abundant	Good	Fair				1 1
black spruce	Picea mariana	NSH	High	88.3	1590.26	16.38	Lg. dec.	Lg. dec.	Medium	Abundant	Fair	Fair				0 2
balsam fir	Abies balsamea	NDH	High	95	1098.26	10.11	Lg. dec.	Lg. dec.	Low	Abundant	Poor	Poor				0 3
paper birch	Betula papyrifera	WDH	High	92.8	728.33	7.29	No change	Sm. dec.	Medium	Abundant	Good	Fair				1 4
jack pine	Pinus banksiana	NSH	Medium	52.5	642.04	11.47	Lg. dec.	Lg. dec.	High	Abundant	Good	Good				1 5
red maple	Acer rubrum	WDH	High	75.7	613.38	7.36	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good				1 6
black ash	Fraxinus nigra	WSH	Medium	72.1	576.93	7.53	Sm. inc.	No change	Low	Abundant	Good	Fair				1 7
northern white-cedar	Thuja occidentalis	WSH	High	43.7	563.81	12.12	No change	No change	Medium	Abundant	Good	Good				1 8
tamarack (native)	Larix laricina	NSH	High	56.2	435.11	7.49	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair				1 9
eastern white pine	Pinus strobus	WDH	High	54.9	410.19	7	No change	Sm. inc.	Low	Common	Poor	Fair				1 10
balsam poplar	Populus balsamifera	NSH	Medium	59.1	353.96	5.28	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor				0 11
white spruce	Picea glauca	NSL	Medium	79.8	313.05	3.61	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor				0 12
red pine	Pinus resinosa	NSH	Medium	42.8	270.69	6.01	No change	Sm. inc.	Low	Common	Poor	Fair				1 13
bur oak	Quercus macrocarpa	NDH	Medium	10.2	143.13	2.47	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++		2 14
bigtooth aspen	Populus grandidentata	NSL	Medium	39	139.15	2.97	Sm. inc.	No change	Medium	Common	Good	Fair				1 15
American elm	Ulmus americana	WDH	Medium	39.5	54.32	1.33	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good				1 16
mountain maple	Acer spicatum	NSL	Low	41.4	38.14	0.93	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor				1 17
northern red oak	Quercus rubra	WDH	Medium	25.6	37.84	1.29	Lg. inc.	Lg. inc.	High	Rare	Good	Good				1 18
American basswood	Tilia americana	WSL	Medium	14.1	26.29	1.93	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good				1 19
green ash	Fraxinus pennsylvanica	WSH	Low	12.4	24.59	1.98	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good				1 20
boxelder	Acer negundo	WSH	Low	7.5	17.89	2.4	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++		1 21
yellow birch	Betula alleghaniensis	NDL	High	6.2	17.55	2.82	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +		1 22
northern pin oak	Quercus ellipsoidalis	NSH	Medium	10.3	16.32	1.69	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++		2 23
serviceberry	Amelanchier spp.	NSL	Low	18.5	7.36	0.39	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost				0 24
silver maple	Acer saccharinum	NSH	Low	1.2	5.78	4.65	Lg. inc.	Lg. inc.	High	Rare	Good	Good				2 25
chokecherry	Prunus virginiana	NSLX	FIA	17.3	5.39	0.31	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only				0 26
sugar maple	Acer saccharum	WDH	High	5	5.22	1.05	Lg. inc.	Lg. inc.	High	Rare	Good	Good				2 27
peachleaf willow	Salix amygdaloides	NSLX	FIA	3.7	4.03	1.08	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only				0 28
pin cherry	Prunus pensylvanica	NSL	Low	8.7	2.75	0.32	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost				0 29
American mountain-ash	Sorbus americana	NSL	Low	1.2	1.13	0.91	Lg. dec.	Very Lg. dec.	Low	Rare	Very Poor	Lost				0 30
eastern hophornbeam; ironw.	Ostrya virginiana	WSL	Low	1.2	0.41	0.33	Lg. inc.	Lg. inc.	High	Rare	Good	Good				2 31
black cherry	Prunus serotina	WDL	Medium	1.2	0.29	0.23	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair		Infill +		2 32
eastern redcedar	Juniperus virginiana	WDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++		3 33
eastern hemlock	Tsuga canadensis	NSH	High	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +		3 34
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown				0 35
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat				3 36
bitternut hickory	Carya cordiformis	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +		3 37
shagbark hickory	Carya ovata	WSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +		3 38
hackberry	Celtis occidentalis	WDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +		3 39
eastern redbud	Cercis canadensis	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat				0 40
American beech	Fagus grandifolia	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat				3 41
white ash	Fraxinus americana	WDL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +		3 42
honeylocust	Gleditsia triacanthos	NSH	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat				0 43
black walnut	Juglans nigra	WDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +		3 44
eastern cottonwood	Populus deltoides	NSH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +		3 45
white oak	Quercus alba	WDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +		3 46
swamp white oak	Quercus bicolor	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat				3 47
scarlet oak	Quercus coccinea	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat				0 48
black oak	Quercus velutina	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++		3 49
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +		3 50
black willow	Salix nigra	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Likely +	Likely +		3 51
slippery elm	Ulmus rubra	WSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +		3 52