

Pictured Rocks

National Park

Climate Change Atlas Tree Species

Current and Potential Future Habitat, Capability, and Migration

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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
sugar maple	Acer saccharum	WDH	High	77.3	1698.06	19.9	Sm. dec.	Lg. dec.	High	Abundant	Good	Good			1	1
red maple	Acer rubrum	WDH	High	95.8	1464.39	14.01	No change	No change	High	Abundant	Very Good	Very Good			1	2
northern white-cedar	Thuja occidentalis	WSH	High	77.5	1031.2	12.73	Sm. dec.	Sm. dec.	Medium	Abundant	Fair	Fair			0	3
jack pine	Pinus banksiana	NSH	Medium	43.6	817.59	17.52	No change	Sm. dec.	High	Abundant	Very Good	Good			1	4
red pine	Pinus resinosa	NSH	Medium	44.7	612.65	12.31	Sm. inc.	No change	Low	Abundant	Good	Fair			1	5
eastern white pine	Pinus strobus	WDH	High	64.9	601.05	8.44	Sm. inc.	No change	Low	Abundant	Good	Fair			1	6
balsam fir	Abies balsamea	NDH	High	87.6	587.41	6.33	Sm. dec.	Sm. dec.	Low	Abundant	Fair	Fair			0	7
black spruce	Picea mariana	NSH	High	67.4	487.45	7.04	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	8
American beech	Fagus grandifolia	WDH	High	58.7	457.98	6.36	No change	No change	Medium	Common	Fair	Fair			1	9
quaking aspen	Populus tremuloides	WDH	High	51.3	400.72	7.67	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	10
eastern hemlock	Tsuga canadensis	NSH	High	60.7	341.21	5.16	No change	Sm. dec.	Low	Common	Poor	Poor			0	11
black cherry	Prunus serotina	WDL	Medium	61.4	281.58	4.37	Sm. inc.	Lg. inc.	Low	Common	Fair	Good			1	12
paper birch	Betula papyrifera	WDH	High	61	266.73	3.96	Sm. inc.	No change	Medium	Common	Good	Fair			1	13
tamarack (native)	Larix laricina	NSH	High	35.5	266.38	7.38	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	14
yellow birch	Betula alleghaniensis	NDL	High	62.4	178.15	2.6	No change	No change	Medium	Common	Fair	Fair			1	15
white spruce	Picea glauca	NSL	Medium	63.1	143.25	2.18	No change	No change	Medium	Common	Fair	Fair			1	16
bigtooth aspen	Populus grandidentata	NSL	Medium	29.5	118.8	3.71	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	17
black ash	Fraxinus nigra	WSH	Medium	39.2	101.17	2.54	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	18
American basswood	Tilia americana	WSL	Medium	13.2	51.62	3.67	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	19
balsam poplar	Populus balsamifera	NSH	Medium	16.2	49.95	3.09	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	20
northern red oak	Quercus rubra	WDH	Medium	7.4	44.63	5.95	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	21
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	27.8	41.02	1.39	Sm. inc.	Sm. inc.	High	Rare	Good	Good			1	22
American elm	Ulmus americana	WDH	Medium	17.4	30.68	1.76	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	23
green ash	Fraxinus pennsylvanica	WSH	Low	8.7	19.57	2.25	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	24
peachleaf willow	Salix amygdaloides	NSLX	FIA	5	19.37	3.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	25
pin cherry	Prunus pensylvanica	NSL	Low	12.9	18.65	1.33	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	26
serviceberry	Amelanchier spp.	NSL	Low	14.4	6.93	0.44	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	27
white ash	Fraxinus americana	WDL	Medium	0.7	3.89	1.73	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	28
chokecherry	Prunus virginiana	NSLX	FIA	3.7	2.81	0.76	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	29
mountain maple	Acer spicatum	NSL	Low	6.2	2.51	0.4	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			1	30
northern pin oak	Quercus ellipsoidalis	NSH	Medium	1.2	2.21	1.78	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	31
striped maple	Acer pensylvanicum	NSL	Medium	1.2	1.04	0.84	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	32
American mountain-ash	Sorbus americana	NSL	Low	2.5	0.47	0.19	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	33
eastern redcedar	Juniperus virginiana	WDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	34
boxelder	Acer negundo	WSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	35
silver maple	Acer saccharinum	NSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	36
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	37
pignut hickory	Carya glabra	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	38
shagbark hickory	Carya ovata	WSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	39
mockernut hickory	Carya alba	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	40
black walnut	Juglans nigra	WDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	41
yellow-poplar	Liriodendron tulipifera	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	42
blackgum	Nyssa sylvatica	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	43
sycamore	Platanus occidentalis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	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	Migrate +	Migrate +	3	47
scarlet oak	Quercus coccinea	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	48
bur oak	Quercus macrocarpa	NDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	49
pin oak	Quercus palustris	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	50
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	51
black oak	Quercus velutina	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	52
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	53

Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
sassafras	Sassafras albidum	WSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	54