



# HUC 040101 Northwestern Lake Superior

## HUC 6 Watershed Climate Change Atlas Tree Species

USDA Forest Service  
Northern Research Station  
Landscape Change Research Group  
Iverson, Peters, Prasad, Matthews

### 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	96.4	2055.2	14.6	Sm. dec.	Sm. dec.	Medium	Abundant	Fair	Fair			0	1
paper birch	Betula papyrifera	WDH	High	99.6	1974.1	12.0	Lg. dec.	Lg. dec.	Medium	Abundant	Fair	Fair			0	2
balsam fir	Abies balsamea	NDH	High	97.4	1741.0	12.0	Lg. dec.	Lg. dec.	Low	Abundant	Poor	Poor			0	3
northern white-cedar	Thuja occidentalis	WSH	High	75.7	763.5	8.0	Sm. dec.	Sm. dec.	Medium	Abundant	Fair	Fair			0	4
black spruce	Picea mariana	NSH	High	71.7	696.8	6.8	Lg. dec.	Lg. dec.	Medium	Abundant	Fair	Fair			0	5
sugar maple	Acer saccharum	WDH	High	57.9	614.4	8.4	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good			1	6
white spruce	Picea glauca	NSL	Medium	90.5	569.1	3.9	Sm. dec.	Lg. dec.	Medium	Abundant	Fair	Fair			0	7
black ash	Fraxinus nigra	WSH	Medium	61.4	525.1	6.0	No change	Sm. dec.	Low	Abundant	Fair	Fair			0	8
red maple	Acer rubrum	WDH	High	63.7	240.2	3.1	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	9
red pine	Pinus resinosa	NSH	Medium	27.8	217.8	5.0	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	10
eastern white pine	Pinus strobus	WDH	High	30.3	191.0	2.5	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	11
mountain maple	Acer spicatum	NSL	Low	76	155.4	1.4	Lg. dec.	Lg. dec.	High	Common	Fair	Fair			1	12
balsam poplar	Populus balsamifera	NSH	Medium	45.7	153.2	1.9	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	13
jack pine	Pinus banksiana	NSH	Medium	25.8	152.7	3.8	No change	No change	High	Common	Good	Good			1	14
tamarack (native)	Larix laricina	NSH	High	23.5	133.1	4.3	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	15
yellow birch	Betula alleghaniensis	NDL	High	48	126.8	2.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	16
bigtooth aspen	Populus grandidentata	NSL	Medium	6.3	32.4	0.6	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	17
American mountain-ash	Sorbus americana	NSL	Low	29.5	29.3	0.7	Lg. dec.	Very Lg. dec.	Low	Rare	Very Poor	Lost			0	18
pin cherry	Prunus pensylvanica	NSL	Low	37.7	28.0	0.6	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	19
American basswood	Tilia americana	WSL	Medium	15.8	27.4	1.5	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	20
serviceberry	Amelanchier spp.	NSL	Low	25.1	16.0	0.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	21
chokecherry	Prunus virginiana	NSLX	FIA	22	14.3	0.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	22
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	4.9	11.8	2.4	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	23
American elm	Ulmus americana	WDH	Medium	4.9	8.5	1.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	24
peachleaf willow	Salix amygdaloides	NSLX	FIA	8.4	7.8	0.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	25
northern red oak	Quercus rubra	WDH	Medium	5	5.9	0.7	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	26
slippery elm	Ulmus rubra	WSL	Low	1.3	3.9	2.2	No change	Sm. inc.	Medium	Rare	Poor	Fair		Infill +	2	27
Scots pine	Pinus sylvestris	NSH	FIA	1.8	3.5	2.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	28
green ash	Fraxinus pennsylvanica	WSH	Low	3.6	3.4	0.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	29
bur oak	Quercus macrocarpa	NDH	Medium	4.5	2.9	0.6	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	30
black willow	Salix nigra	NSH	Low	3.6	2.8	0.5	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	31
black cherry	Prunus serotina	WDL	Medium	5.9	2.3	0.3	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	32
wild plum	Prunus americana	NSLX	FIA	1.3	0.3	0.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	33
eastern redcedar	Juniperus virginiana	WDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	34
eastern hemlock	Tsuga canadensis	NSH	High	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate +	3	35
boxelder	Acer negundo	WSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	36
silver maple	Acer saccharinum	NSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	37
sweet birch	Betula lenta	NDH	High	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	38
American hornbeam; musclev	Carpinus caroliniana	WSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	39
bitternut hickory	Carya cordiformis	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	40
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	41
shagbark hickory	Carya ovata	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	42
American beech	Fagus grandifolia	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	43
white ash	Fraxinus americana	WDL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	44
American holly	Ilex opaca	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	45
black walnut	Juglans nigra	WDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	46
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	47



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sycamore	Platanus occidentalis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	48
eastern cottonwood	Populus deltoides	NSH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	49
white oak	Quercus alba	WDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	50
swamp white oak	Quercus bicolor	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	51
scarlet oak	Quercus coccinea	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	52
northern pin oak	Quercus ellipsoidalis	NSH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate +	3	53
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			0	54
chestnut oak	Quercus prinus	NDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	55
black oak	Quercus velutina	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	56
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	57