

HUC 111003 Lower North Canadian

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
post oak	Quercus stellata	WDH	High	69.8	548.8	21.5	No change	No change	High	Abundant	Very Good	Very Good			1	1
eastern redcedar	Juniperus virginiana	WDH	Medium	72.6	308.8	13.4	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	2
blackjack oak	Quercus marilandica	NSL	Medium	71.4	283.0	10.4	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	3
American elm	Ulmus americana	WDH	Medium	63.4	120.2	7.6	No change	No change	Medium	Common	Fair	Fair			1	4
winged elm	Ulmus alata	WDL	Medium	47.9	99.0	7.4	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	5
black oak	Quercus velutina	WDH	High	44.3	77.2	5.5	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	6
black hickory	Carya texana	NDL	High	50.8	76.4	4.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	7
common persimmon	Diospyros virginiana	NSL	Low	34.1	62.5	7.2	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	8
black willow	Salix nigra	NSH	Low	21.9	36.0	6.2	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			0	9
hackberry	Celtis occidentalis	WDH	Medium	34.3	33.7	4.6	Sm. dec.	No change	High	Rare	Poor	Fair			1	10
Shumard oak	Quercus shumardii	NSL	Low	19.2	28.9	4.6	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	1	11
pecan	Carya illinoensis	NSH	Low	42.4	26.2	3.9	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair			1	12
eastern cottonwood	Populus deltoides	NSH	Low	14.8	21.7	5.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	13
green ash	Fraxinus pennsylvanica	WSH	Low	40.1	21.2	3.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	14
sugarberry	Celtis laevigata	NDH	Medium	29.3	18.3	3.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	15
Siberian elm	Ulmus pumila	NDH	FIA	4	16.6	15.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	16
ashe juniper	Juniperus ashei	NDH	High	0.6	15.5	24.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			0	17
slippery elm	Ulmus rubra	WSL	Low	23.2	12.4	2.0	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	18
pin oak	Quercus palustris	NSH	Low	13.5	10.9	4.1	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	19
boxelder	Acer negundo	WSH	Low	17	9.4	3.2	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	20
sycamore	Platanus occidentalis	NSL	Low	15.7	8.4	3.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	21
Osage-orange	Maclura pomifera	NDH	Medium	13.9	8.4	5.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	22
honeylocust	Gleditsia triacanthos	NSH	Low	7.5	8.2	6.0	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	23
black walnut	Juglans nigra	WDH	Low	11.7	7.9	2.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	24
chinkapin oak	Quercus muehlenbergii	NSL	Medium	17.4	7.6	2.0	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	25
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	24.7	7.5	1.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	26
black locust	Robinia pseudoacacia	NDH	Low	7	6.8	13.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	27
white ash	Fraxinus americana	WDL	Medium	11.7	6.2	1.7	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	1	28
bur oak	Quercus macrocarpa	NDH	Medium	15.2	5.3	3.0	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	29
bitternut hickory	Carya cordiformis	WSL	Low	5.8	4.6	0.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	30
northern red oak	Quercus rubra	WDH	Medium	15.1	4.3	1.8	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	31
red mulberry	Morus rubra	NSL	Low	21.8	3.9	0.8	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	32
black cherry	Prunus serotina	WDL	Medium	10.3	3.8	0.8	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	1	33
wild plum	Prunus americana	NSLX	FIA	6.8	3.8	0.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	34
loblolly pine	Pinus taeda	WDH	High	2.5	3.4	21.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	35
eastern redbud	Cercis canadensis	NSL	Low	24.1	3.1	0.5	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	36
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	0.5	2.1	2.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
shortleaf pine	Pinus echinata	WDH	High	0.6	2.0	3.3	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	38
sassafras	Sassafras albidum	WSL	Low	2.5	2.0	1.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	39
mockernut hickory	Carya alba	WDL	Medium	4.3	1.8	0.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	40
flowering dogwood	Cornus florida	WDL	Medium	4.2	1.7	0.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	41
water oak	Quercus nigra	WDH	High	2.9	0.9	1.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	42
Nuttall oak	Quercus texana	NSH	Medium	2.5	0.9	5.5	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	43
northern catalpa	Catalpa speciosa	NSHX	FIA	2.3	0.8	5.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	44
Scots pine	Pinus sylvestris	NSH	FIA	2.4	0.7	4.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	45
southern red oak	Quercus falcata	WDL	Medium	4.9	0.4	1.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	46
white oak	Quercus alba	WDH	Medium	4.8	0.4	1.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	47



HUC 111003 Lower North Canadian

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
river birch	Betula nigra	NSL	Low	2.1	0.3	1.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	48
white mulberry	Morus alba	NSL	FIA	2.8	0.2	0.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	49
silver maple	Acer saccharinum	NSH	Low	2.1	0.2	1.0	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	50
Texas ash	Fraxinus texensis	NDH	FIA	2.1	0.2	1.0	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	51
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	2.3	0.1	0.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	52
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	53
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	54
red maple	Acer rubrum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	55
sugar maple	Acer saccharum	WDH	High	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	56
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	57
pawpaw	Asimina triloba	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	58
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	59
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	60
sweetgum	Liquidambar styraciflua	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate +	3	61
blackgum	Nyssa sylvatica	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	62
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	63
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	64
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	65
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	66