

Current and Potential Future Habitat, Capability, and Migration

sq. km sq. mi FIA Plots
Area of Region 1,327,625 512,599 36,276

Species Information

The columns below provide brief summaries of the species associated with the region and described in the table on the next pages. Definitions are provided in the Excel file for this region.

Genus	Species	Abundance		Model		Potential Change in Habitat Suitability		Capability to Cope or Persist		Migration Potential				
				Reliability	Adaptability	Scenario	Scenario	Scenario	Scenario	SHIFT	SHIFT			
				High	Low	RCP45	RCP85	RCP45	RCP85	RCP45	RCP85			
Ash	6			27	31	Increase	37	42	Very Good	15	17	Likely	0	0
Hickory	9			43	71	No Change	47	45	Good	15	14	Infill	31	32
Maple	8	Abundant	2	48	24	Decrease	31	28	Fair	25	28	Migrate	0	0
Oak	26	Common	37	FIA	20	New	0	0	Poor	29	28		31	32
Pine	12	Rare	94			Unknown	23	23	Very Poor	28	25			
Other	72	Absent	4						FIA Only	14	14			
	133		137				138	138	Unknown	6	6			
										132	132			

Potential Changes in Climate Variables

Temperature (°F)

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	62.2	63.9	65.8	66.0	
	CCSM85	62.2	64.2	66.6	69.3	
	GFDL45	62.2	65.2	66.9	67.8	
	GFDL85	62.2	64.9	68.0	71.5	
	HAD45	62.2	64.4	67.3	68.6	
	HAD85	62.2	64.8	68.7	72.5	
Growing Season (May—Sep)	CCSM45	75.5	77.1	78.7	79.2	
	CCSM85	75.5	77.3	79.8	83.1	
	GFDL45	75.5	78.9	80.6	82.1	
	GFDL85	75.5	78.6	82.1	86.1	
	HAD45	75.5	78.5	81.1	82.5	
	HAD85	75.5	78.6	84.0	87.5	
Coldest Month (Average)	CCSM45	41.9	44.1	45.1	45.2	
	CCSM85	41.9	44.4	45.5	46.8	
	GFDL45	41.9	45.3	45.5	45.9	
	GFDL85	41.9	43.8	44.9	45.6	
	HAD45	41.9	42.4	44.2	44.7	
	HAD85	41.9	43.4	44.7	46.4	
Warmest Month (Average)	CCSM45	80.0	81.6	82.4	82.6	
	CCSM85	80.0	81.9	83.2	84.9	
	GFDL45	80.0	83.2	84.0	85.0	
	GFDL85	80.0	83.2	85.0	87.4	
	HAD45	80.0	83.6	85.3	85.9	
	HAD85	80.0	84.2	87.6	89.2	

Precipitation (in)

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	51.6	54.1	57.6	57.2	
	CCSM85	51.6	55.1	57.1	60.8	
	GFDL45	51.6	57.4	61.1	61.9	
	GFDL85	51.6	56.5	61.0	61.5	
	HAD45	51.6	51.0	54.0	55.1	
	HAD85	51.6	54.2	49.7	52.5	
Growing Season (May—Sep)	CCSM45	22.7	24.1	25.1	25.3	
	CCSM85	22.7	23.7	24.1	25.3	
	GFDL45	22.7	26.3	28.0	27.8	
	GFDL85	22.7	25.9	28.6	28.7	
	HAD45	22.7	22.3	22.6	22.2	
	HAD85	22.7	23.3	19.2	19.5	

NOTE: For the six climate variables, four 30-year periods are used to indicate six potential future trajectories. The period ending in 2009 is based on modeled observations from the PRISM Climate Group and the three future periods were obtained from the NASA NEX-DGP30 dataset. Future climate projections from three models under two emission scenarios show estimates of each climate variable within the region. The three models are CCSM4, GFDL CM3, and HadGEM2-ES and the emission scenarios are the 4.5 and 8.5 RCP. The average value for the region is reported, even though locations within the region may vary substantially based on latitude, elevation, land-use, or other factors.

Cite as: Iverson, L.R.; Prasad, A.M.; Peters, M.P.; Matthews, S.N. 2019. Facilitating Adaptive Forest Management under Climate Change: A Spatially Specific Synthesis of 125 Species for Habitat Changes and Assisted Migration over the Eastern United States. *Forests*. 10(11): 989. <https://doi.org/10.3390/f10110989>.

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
loblolly pine	Pinus taeda	WDH	High	52.8	1811.0	34.8	No change	No change	Medium	Abundant	Good	Good			1	1
sweetgum	Liquidambar styraciflua	WDH	High	59.1	588.8	10.6	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	2
slash pine	Pinus elliotii	NDH	High	15.4	422.4	30.2	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	2	3
red maple	Acer rubrum	WDH	High	64.2	411.6	6.7	No change	No change	High	Common	Good	Good			1	4
yellow-poplar	Liriodendron tulipifera	WDH	High	41.4	354.4	8.7	Sm. dec.	Lg. dec.	High	Common	Fair	Fair			0	5
white oak	Quercus alba	WDH	Medium	46.4	330.7	7.3	No change	No change	High	Common	Good	Good			1	6
water oak	Quercus nigra	WDH	High	43.1	294.3	7.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	7
shortleaf pine	Pinus echinata	WDH	High	25.9	175.6	6.9	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	8
eastern redcedar	Juniperus virginiana	WDH	Medium	26	169.2	6.8	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	9
chestnut oak	Quercus prinus	NDH	High	14.9	161.2	10.7	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	1	10
southern red oak	Quercus falcata	WDL	Medium	35.6	153.9	4.5	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	11
longleaf pine	Pinus palustris	NSH	Medium	11.1	146.9	14.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	12
Virginia pine	Pinus virginiana	NDH	High	15.1	139.5	9.3	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	13
blackgum	Nyssa sylvatica	WDL	Medium	47.9	138.7	3.0	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			0	14
post oak	Quercus stellata	WDH	High	29	134.7	4.8	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	15
mockernut hickory	Carya alba	WDL	Medium	35.4	114.1	3.4	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			0	16
laurel oak	Quercus laurifolia	NDH	Medium	18.9	114.0	6.6	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	17
swamp tupelo	Nyssa biflora	NDH	Medium	15.1	110.4	7.4	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair	Infill +	Infill +	1	18
black cherry	Prunus serotina	WDL	Medium	41.2	110.3	2.8	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	19
pignut hickory	Carya glabra	WDL	Medium	31.9	110.0	3.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	20
green ash	Fraxinus pennsylvanica	WSH	Low	28.6	103.6	4.4	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	21
black oak	Quercus velutina	WDH	High	25.7	99.7	4.0	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	22
winged elm	Ulmus alata	WDL	Medium	31.7	97.0	3.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	23
northern red oak	Quercus rubra	WDH	Medium	22.8	96.2	4.3	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			0	24
sugar maple	Acer saccharum	WDH	High	12.1	85.1	7.3	Sm. dec.	Lg. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	25
scarlet oak	Quercus coccinea	WDL	Medium	17.7	79.0	4.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	26
sourwood	Oxydendrum arboreum	NDL	High	22.6	77.8	3.5	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			0	27
American beech	Fagus grandifolia	WDH	High	18.8	71.1	3.8	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			0	28
American elm	Ulmus americana	WDH	Medium	23.9	63.4	3.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	29
sugarberry	Celtis laevigata	NDH	Medium	11.8	63.1	7.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	30
flowering dogwood	Cornus florida	WDL	Medium	36	62.6	1.8	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			0	31
willow oak	Quercus phellos	NSL	Low	14.7	60.9	4.7	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	1	32
bald cypress	Taxodium distichum	NSH	Medium	8.2	57.7	9.2	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	33
pond cypress	Taxodium ascendens	NSH	Medium	5.1	57.4	13.1	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	34
sweetbay	Magnolia virginiana	NSL	Medium	13.8	56.7	4.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	35
white ash	Fraxinus americana	WDL	Medium	16.6	56.4	3.5	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair	Infill +	Infill +	1	36
black locust	Robinia pseudoacacia	NDH	Low	11.4	52.8	4.8	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	37
live oak	Quercus virginiana	NDH	High	7.4	50.9	9.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	2	38
American hornbeam; musclev	Carpinus caroliniana	WSL	Low	20.7	50.5	2.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			0	39
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	13	47.1	4.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	40
sassafras	Sassafras albidum	WSL	Low	19.2	45.7	2.6	No change	Sm. inc.	Medium	Rare	Poor	Fair			0	41
sycamore	Platanus occidentalis	NSL	Low	11.2	45.3	4.5	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			0	42
eastern white pine	Pinus strobus	WDH	High	4.9	45.1	8.9	No change	No change	Low	Rare	Very Poor	Very Poor			0	43
boxelder	Acer negundo	WSH	Low	9.4	42.0	5.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	44
black willow	Salix nigra	NSH	Low	8	41.7	7.1	No change	No change	Low	Rare	Very Poor	Very Poor			0	45
shagbark hickory	Carya ovata	WSL	Medium	12.7	37.9	3.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	46
water tupelo	Nyssa aquatica	NSH	Medium	4.1	35.2	10.4	No change	No change	Low	Rare	Very Poor	Very Poor			2	47

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
common persimmon	Diospyros virginiana	NSL	Low	20.2	34.2	1.9	Sm. inc.	Lg. inc.	High	Rare	Good	Good			0	48
black walnut	Juglans nigra	WDH	Low	9.5	33.1	3.7	No change	No change	Medium	Rare	Poor	Poor			0	49
American holly	Ilex opaca	NSL	Medium	15.4	32.9	2.1	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			0	50
black hickory	Carya texana	NDL	High	5.4	32.2	6.0	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	51
slippery elm	Ulmus rubra	WSL	Low	14.4	31.4	2.6	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			0	52
pond pine	Pinus serotina	NSH	Medium	2.7	31.0	11.1	No change	No change	Low	Rare	Very Poor	Very Poor			2	53
cabbage palmetto	Sabal palmetto	NDH	Medium	3.1	30.6	17.4	No change	No change	NA	Rare	Unknown	Unknown			0	54
hackberry	Celtis occidentalis	WDH	Medium	7	30.2	5.1	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	55
sand pine	Pinus clausa	NDH	High	1.1	29.4	25.9	No change	No change	Low	Rare	Very Poor	Very Poor			2	56
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	14	25.1	1.9	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	57
overcup oak	Quercus lyrata	NSL	Medium	6.1	24.2	5.9	No change	No change	Low	Rare	Very Poor	Very Poor			2	58
chinkapin oak	Quercus muehlenbergii	NSL	Medium	6.2	22.8	4.0	No change	No change	Medium	Rare	Poor	Poor			0	59
bitternut hickory	Carya cordiformis	WSL	Low	8.1	21.3	2.9	No change	No change	High	Rare	Fair	Fair			0	60
sweet birch	Betula lenta	NDH	High	5.1	20.9	3.9	No change	No change	Low	Rare	Very Poor	Very Poor			0	61
eastern hemlock	Tsuga canadensis	NSH	High	4	20.8	5.0	No change	No change	Low	Rare	Very Poor	Very Poor			0	62
turkey oak	Quercus laevis	NSH	Medium	3	20.5	7.0	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	63
redbay	Persea borbonia	NSL	Low	8.6	20.1	2.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	64
blackjack oak	Quercus marilandica	NSL	Medium	6.6	19.3	2.9	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	65
river birch	Betula nigra	NSL	Low	4.8	18.6	4.2	No change	Sm. inc.	Medium	Rare	Poor	Fair			0	66
eastern redbud	Cercis canadensis	NSL	Low	11.1	18.2	1.8	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	67
loblolly-bay	Gordonia lasianthus	NSH	Medium	2.9	18.1	6.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	68
pecan	Carya illinoensis	NSH	Low	4.1	17.2	6.2	No change	Sm. inc.	Low	Rare	Very Poor	Poor			2	69
water hickory	Carya aquatica	NSL	Medium	4.6	15.5	5.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	70
Nuttall oak	Quercus texana	NSH	Medium	3.5	13.9	7.7	No change	No change	High	Rare	Fair	Fair			0	71
swamp chestnut oak	Quercus michauxii	NSL	Low	6.2	13.8	2.5	No change	No change	Medium	Rare	Poor	Poor			0	72
honeylocust	Gleditsia triacanthos	NSH	Low	4.9	13.4	3.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	73
ailanthus	Ailanthus altissima	NSL	FIA	3.5	13.3	4.1	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	74
Osage-orange	Maclura pomifera	NDH	Medium	2	11.7	6.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	75
pitch pine	Pinus rigida	NSH	High	3	11.7	3.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	76
florida maple	Acer barbatum	NSL	Low	5.2	11.5	2.4	No change	No change	High	Rare	Fair	Fair			0	77
American basswood	Tilia americana	WSL	Medium	3.9	10.7	2.7	No change	No change	Medium	Rare	Poor	Poor			0	78
red mulberry	Morus rubra	NSL	Low	7.3	10.6	1.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	79
eastern cottonwood	Populus deltoides	NSH	Low	2.3	9.9	6.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	80
southern magnolia	Magnolia grandiflora	NSL	Low	4	9.6	2.4	No change	Sm. inc.	Medium	Rare	Poor	Fair			0	81
silver maple	Acer saccharinum	NSH	Low	1.6	8.9	7.0	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	82
Shumard oak	Quercus shumardii	NSL	Low	3.2	8.8	3.3	No change	No change	High	Rare	Fair	Fair			0	83
spruce pine	Pinus glabra	NSL	Low	2.6	7.8	3.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	84
yellow buckeye	Aesculus flava	NSL	Low	2.4	7.0	2.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	85
cucumbertree	Magnolia acuminata	NSL	Low	3.2	6.1	1.8	No change	No change	Medium	Rare	Poor	Poor			0	86
serviceberry	Amelanchier spp.	NSL	Low	4.9	5.3	1.0	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	87
shellbark hickory	Carya laciniosa	NSL	Low	2	5.2	3.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	88
water elm	Planera aquatica	NSL	Low	1.6	4.6	4.7	No change	No change	Medium	Rare	Poor	Poor			0	89
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	1.6	4.0	2.5	No change	No change	NA	Rare	Unknown	Unknown			0	90
bluejack oak	Quercus incana	NSL	Low	1.5	3.5	2.5	No change	No change	Medium	Rare	Poor	Poor			0	91
pumpkin ash	Fraxinus profunda	NSH	FIA	0.6	3.4	5.7	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	92
Table Mountain pine	Pinus pungens	NSL	Low	0.7	3.3	4.2	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	93
paulownia	Paulownia tomentosa	NSL	FIA	1.3	3.3	2.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	94

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
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	0.5	3.3	6.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	95
yellow birch	Betula alleghaniensis	NDL	High	0.9	3.3	3.6	No change	No change	Medium	Rare	Poor	Poor			0	96
blue ash	Fraxinus quadrangulata	NSL	Low	0.8	2.6	4.3	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	97
pawpaw	Asimina triloba	NSL	Low	1.9	2.5	1.3	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	98
cedar elm	Ulmus crassifolia	NDH	Medium	1.1	2.5	4.2	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	99
pin oak	Quercus palustris	NSH	Low	0.6	2.5	5.3	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	100
red spruce	Picea rubens	NDH	High	0.2	2.3	13.3	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	101
bigleaf magnolia	Magnolia macrophylla	NSL	Low	1.3	2.2	1.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	102
striped maple	Acer pensylvanicum	NSL	Medium	1.5	2.2	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	103
shingle oak	Quercus imbricaria	NDH	Medium	0.6	2.1	3.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	104
sand hickory	Carya pallida	NSL	FIA	0.8	1.9	2.7	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	105
Carolina ash	Fraxinus caroliniana	NSL	FIA	0.9	1.8	3.8	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	106
Ohio buckeye	Aesculus glabra	NSL	Low	0.7	1.7	2.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	107
waterlocust	Gleditsia aquatica	NSLX	FIA	0.9	1.4	3.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	108
ogeechee tupelo	Nyssa ogeche	NSLX	FIA	0.4	1.3	3.3	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	109
butternut	Juglans cinerea	NSLX	FIA	0.6	1.2	2.3	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	110
pin cherry	Prunus pensylvanica	NSL	Low	0.6	1.2	2.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	111
silverbell	Halesia spp.	NSL	Low	0.5	1.1	2.2	No change	No change	Medium	Rare	Poor	Poor			0	112
ashe juniper	Juniperus ashei	NDH	High	0.1	0.9	12.8	Lg. inc.	Lg. inc.	NA	Rare	Unknown	Unknown			0	113
wild plum	Prunus americana	NSLX	FIA	1	0.8	0.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	114
white mulberry	Morus alba	NSL	FIA	0.5	0.7	1.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	115
bigtooth aspen	Populus grandidentata	NSL	Medium	0.3	0.7	2.3	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	116
American chestnut	Castanea dentata	NSLX	FIA	0.8	0.7	0.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	117
durand oak	Quercus sinuata var. sinuata	NSL	FIA	0.3	0.7	2.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	118
swamp white oak	Quercus bicolor	NSL	Low	0.2	0.5	2.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	119
black maple	Acer nigrum	NSH	Low	0.1	0.3	2.4	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	120
bur oak	Quercus macrocarpa	NDH	Medium	0.1	0.3	1.7	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	121
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0.3	0.3	1.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	122
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	0.1	0.2	1.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	123
northern catalpa	Catalpa speciosa	NSHX	FIA	0.1	0.2	2.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	124
chokecherry	Prunus virginiana	NSLX	FIA	0.1	0.2	2.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	125
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	0.1	0.1	1.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	126
Siberian elm	Ulmus pumila	NDH	FIA	0	0.1	2.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	127
rock elm	Ulmus thomasii	NSLX	FIA	0.1	0.1	1.3	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	128
mountain maple	Acer spicatum	NSL	Low	0.1	0.0	0.7	No change	No change	High	Rare	Fair	Fair			0	129
black ash	Fraxinus nigra	WSH	Medium	0	0.0	1.0	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor			0	130
Scots pine	Pinus sylvestris	NSH	FIA	0	0.0	0.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	131
northern white-cedar	Thuja occidentalis	WSH	High	0	0.0	1.4	No change	No change	Medium	Rare	Poor	Poor			0	132
American mountain-ash	Sorbus americana	NSL	Low	0	0.0	0.7	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			0	133
balsam fir	Abies balsamea	NDH	High	0	0	0	Unknown	Unknown	Low	Modeled	Unknown	Unknown			0	134
Norway maple	Acer platanoides	NSL	FIA	0	0	0.3	Unknown	Unknown	NA	Absent	NNIS	NNIS			0	135
gray birch	Betula populifolia	NSL	Low	0	0	0.5	Sm. dec.	Sm. dec.	Medium	Absent	Poor	Poor			0	136
quaking aspen	Populus tremuloides	WDH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	137
northern pin oak	Quercus ellipsoidalis	NSH	Medium	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	138