

	sq. km	sq. mi	FIA Plots
Area of Region	38,018	14,679	892

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 RCP45	Scenario RCP85	Scenario RCP45	Scenario RCP85	SHIFT RCP45	SHIFT RCP85				
Ash	2			High	25	28	Increase	26	36	Very Good	9	8	Likely	0	0
Hickory	4			Medium	39	64	No Change	33	23	Good	18	26	Infill	23	24
Maple	8	Abundant	5	Low	45	21	Decrease	22	22	Fair	21	19	Migrate	11	12
Oak	18	Common	28	FIA	10		New	24	23	Poor	17	12		34	36
Pine	9	Rare	58				Unknown	14	15	Very Poor	14	13			
Other	50	Absent	28							FIA Only	4	4			
	91		119		119	113		119	119	Unknown	4	5			
											87	87			

Potential Changes in Climate Variables

Temperature (°F)

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	48.4	49.8	51.6	51.8	
	CCSM85	48.4	50.1	52.2	54.6	
	GFDL45	48.4	50.7	52.9	53.7	
	GFDL85	48.4	51.1	53.8	57.0	
	HAD45	48.4	50.4	53.1	54.3	
	HAD85	48.4	50.6	53.9	57.5	
Growing Season (May—Sep)	CCSM45	60.7	62.1	63.7	64.1	
	CCSM85	60.7	62.4	64.5	67.6	
	GFDL45	60.7	63.2	66.0	67.3	
	GFDL85	60.7	64.0	67.2	70.7	
	HAD45	60.7	63.1	65.6	67.1	
	HAD85	60.7	63.0	67.0	71.1	
Coldest Month (Average)	CCSM45	29.9	31.4	32.6	33.0	
	CCSM85	29.9	31.9	32.9	34.1	
	GFDL45	29.9	32.5	32.9	33.5	
	GFDL85	29.9	32.1	33.0	34.1	
	HAD45	29.9	31.1	32.8	32.9	
	HAD85	29.9	31.5	32.9	34.4	
Warmest Month (Average)	CCSM45	65.1	66.8	67.6	67.9	
	CCSM85	65.1	66.9	68.4	69.8	
	GFDL45	65.1	67.7	69.3	70.4	
	GFDL85	65.1	68.9	70.7	72.9	
	HAD45	65.1	67.9	69.6	70.5	
	HAD85	65.1	68.3	70.8	73.6	

Precipitation (in)

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	32.2	34.9	35.9	36.7	
	CCSM85	32.2	35.2	36.1	40.6	
	GFDL45	32.2	35.7	37.4	37.8	
	GFDL85	32.2	33.1	37.7	38.6	
	HAD45	32.2	34.3	34.8	34.2	
	HAD85	32.2	36.2	33.3	35.7	
Growing Season (May—Sep)	CCSM45	15.0	17.2	17.8	17.8	
	CCSM85	15.0	17.1	17.2	19.1	
	GFDL45	15.0	15.8	16.3	16.4	
	GFDL85	15.0	14.4	16.2	16.4	
	HAD45	15.0	16.3	15.2	14.8	
	HAD85	15.0	16.4	14.4	15.1	

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-DCP30 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.

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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
chestnut oak	Quercus prinus	NDH	High	64.7	1114.9	16.0	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	1
red maple	Acer rubrum	WDH	High	73.6	827.5	8.3	No change	Sm. dec.	High	Abundant	Very Good	Good			1	2
white oak	Quercus alba	WDH	Medium	65.8	742.5	10.1	No change	No change	High	Abundant	Very Good	Very Good			1	3
yellow-poplar	Liriodendron tulipifera	WDH	High	43	556.6	9.8	No change	Sm. dec.	High	Abundant	Very Good	Good			1	4
northern red oak	Quercus rubra	WDH	Medium	57.3	508.1	7.2	No change	No change	High	Abundant	Very Good	Very Good			1	5
black locust	Robinia pseudoacacia	NDH	Low	54.8	401.4	6.3	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	6
black cherry	Prunus serotina	WDL	Medium	51	365.1	5.4	No change	No change	Low	Common	Poor	Poor			0	7
Virginia pine	Pinus virginiana	NDH	High	42.8	356.8	7.3	No change	No change	Medium	Common	Fair	Fair			1	8
black oak	Quercus velutina	WDH	High	53.7	334.7	5.6	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	9
blackgum	Nyssa sylvatica	WDL	Medium	60	316.9	4.6	No change	No change	High	Common	Good	Good			1	10
sugar maple	Acer saccharum	WDH	High	26.3	291.8	7.8	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	11
pignut hickory	Carya glabra	WDL	Medium	57.6	274.3	4.3	No change	No change	Medium	Common	Fair	Fair			1	12
scarlet oak	Quercus coccinea	WDL	Medium	43.8	269.6	5.6	No change	No change	Medium	Common	Fair	Fair			1	13
eastern redcedar	Juniperus virginiana	WDH	Medium	21.9	220.8	9.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	14
white ash	Fraxinus americana	WDL	Medium	44.8	220.1	4.0	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	15
sweet birch	Betula lenta	NDH	High	26.7	186.5	4.5	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor			0	16
eastern white pine	Pinus strobus	WDH	High	21.9	184.5	6.8	No change	No change	Low	Common	Poor	Poor			0	17
sweetgum	Liquidambar styraciflua	WDH	High	9.8	166.9	9.2	No change	Sm. inc.	Medium	Common	Fair	Good	Infill +	Infill ++	2	18
American beech	Fagus grandifolia	WDH	High	17.4	165.7	6.1	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	19
mockernut hickory	Carya alba	WDL	Medium	34.5	157.6	3.6	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	20
loblolly pine	Pinus taeda	WDH	High	6.7	135.2	8.8	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	2	21
black walnut	Juglans nigra	WDL	Low	26	128.2	4.7	No change	Sm. inc.	Medium	Common	Fair	Good			1	22
sassafras	Sassafras albidum	WSL	Low	31.9	114.9	2.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	23
eastern hemlock	Tsuga canadensis	NSH	High	13.5	98.6	4.8	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	24
ailanthus	Ailanthus altissima	NSL	FIA	22.2	84.0	4.1	Unknown	Unknown	NA	Common	NNIS	NNIS			0	25
American basswood	Tilia americana	WSL	Medium	13.6	81.9	4.4	No change	No change	Medium	Common	Fair	Fair			1	26
pitch pine	Pinus rigida	NSH	High	18.5	79.2	4.0	No change	No change	Medium	Common	Fair	Fair			1	27
sycamore	Platanus occidentalis	NSL	Low	13.1	71.4	7.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	28
American holly	Ilex opaca	NSL	Medium	9.4	68.7	3.4	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	29
southern red oak	Quercus falcata	WDL	Medium	8	67.8	4.5	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	2	30
shagbark hickory	Carya ovata	WSL	Medium	21.2	67.1	2.5	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	31
bitternut hickory	Carya cordiformis	WSL	Low	15.4	62.0	4.4	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	32
boxelder	Acer negundo	WSH	Low	8.9	58.7	8.1	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	33
hackberry	Celtis occidentalis	WDH	Medium	13.1	49.4	3.3	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	34
American elm	Ulmus americana	WDH	Medium	18.1	41.5	2.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	35
flowering dogwood	Cornus florida	WDL	Medium	21.3	35.5	1.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	36
serviceberry	Amelanchier spp.	NSL	Low	20.9	33.6	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
green ash	Fraxinus pennsylvanica	WSH	Low	6	33.5	7.1	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	38
red spruce	Picea rubens	NDH	High	1.7	30.8	5.9	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	39
yellow birch	Betula alleghaniensis	NDL	High	3.2	30.7	2.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	40
slippery elm	Ulmus rubra	WSL	Low	12.7	30.4	2.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	41
Table Mountain pine	Pinus pungens	NSL	Low	7.4	30.3	3.8	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	42
eastern redbud	Cercis canadensis	NSL	Low	12.7	29.7	1.7	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	43
striped maple	Acer pensylvanicum	NSL	Medium	11.2	29.0	1.6	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	44
pin oak	Quercus palustris	NSH	Low	5.1	24.8	8.3	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	45
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	14.1	24.6	1.4	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	46
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	8.2	19.8	1.6	No change	No change	Medium	Rare	Poor	Poor			1	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
Norway spruce	Picea abies	NSH	FIA	0.9	19.3	16.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	48
bigtooth aspen	Populus grandidentata	NSL	Medium	3.8	17.1	2.6	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	49
pin cherry	Prunus pensylvanica	NSL	Low	3.8	16.6	3.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	50
silver maple	Acer saccharinum	NSH	Low	2.3	16.2	12.1	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	51
cucumbertree	Magnolia acuminata	NSL	Low	6.3	16.1	1.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	52
eastern cottonwood	Populus deltoides	NSH	Low	0.3	14.7	55.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	53
common persimmon	Diospyros virginiana	NSL	Low	5.5	14.6	1.9	No change	Lg. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	54
willow oak	Quercus phellos	NSL	Low	3.7	14.3	2.6	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	55
post oak	Quercus stellata	WDH	High	2.3	12.2	3.9	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	56
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	1.5	10.7	3.5	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	57
pawpaw	Asimina triloba	NSL	Low	4.9	9.5	2.2	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	58
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	4.3	9.1	2.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	59
swamp chestnut oak	Quercus michauxii	NSL	Low	1.5	8.2	4.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	60
Osage-orange	Maclura pomifera	NDH	Medium	0.8	7.9	10.0	Sm. dec.	No change	High	Rare	Poor	Fair		Infill +	2	61
Norway maple	Acer platanoides	NSL	FIA	1.8	7.6	6.2	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	62
quaking aspen	Populus tremuloides	WDH	High	0.4	7.4	9.0	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	63
chinkapin oak	Quercus muehlenbergii	NSL	Medium	2.2	6.8	5.4	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	64
white mulberry	Morus alba	NSL	FIA	2.2	6.7	5.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	65
shortleaf pine	Pinus echinata	WDH	High	2.6	6.3	2.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	66
red pine	Pinus resinosa	NSH	Medium	0.2	5.7	17.6	Very Lg. dec.	Very Lg. dec.	Low	Rare	Lost	Lost			0	67
red mulberry	Morus rubra	NSL	Low	2.1	5.4	7.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	68
river birch	Betula nigra	NSL	Low	2	5.2	1.8	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	69
butternut	Juglans cinerea	NSLX	FIA	3.4	4.6	1.8	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	70
Scots pine	Pinus sylvestris	NSH	FIA	1.1	3.3	1.2	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	71
honeylocust	Gleditsia triacanthos	NSH	Low	1.2	3.3	2.4	No change	Lg. inc.	High	Rare	Fair	Good			2	72
American chestnut	Castanea dentata	NSLX	FIA	3.4	3.1	0.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	73
paulownia	Paulownia tomentosa	NSL	FIA	1.7	3.1	1.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	74
black willow	Salix nigra	NSH	Low	0.8	2.0	2.5	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	75
swamp white oak	Quercus bicolor	NSL	Low	0.4	1.8	1.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	76
swamp tupelo	Nyssa biflora	NDH	Medium	0.2	1.6	1.4	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	77
sourwood	Oxydendrum arboreum	NDL	High	0.6	1.2	0.6	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	78
black maple	Acer nigrum	NSH	Low	0.8	1.0	1.3	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	79
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0.1	0.9	0.9	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair			0	80
blackjack oak	Quercus marilandica	NSL	Medium	0.7	0.9	1.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	81
chokecherry	Prunus virginiana	NSLX	FIA	1	0.8	0.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	82
American mountain-ash	Sorbus americana	NSL	Low	0.1	0.8	0.9	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	83
sweetbay	Magnolia virginiana	NSL	Medium	0.2	0.7	0.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	84
mountain maple	Acer spicatum	NSL	Low	0.2	0.3	0.2	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	85
pond pine	Pinus serotina	NSH	Medium	0	0.3	0.1	No change	Sm. inc.	Low	Rare	Very Poor	Poor			2	86
shingle oak	Quercus imbricaria	NDH	Medium	0.3	0.2	0.7	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	87
laurel oak	Quercus laurifolia	NDH	Medium	0	0.2	0.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	88
gray birch	Betula populifolia	NSL	Low	0.1	0.1	0.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	89
bur oak	Quercus macrocarpa	NDH	Medium	0.3	0.1	0.6	Lg. dec.	Very Lg. dec.	High	Rare	Poor	Lost			0	90
winged elm	Ulmus alata	WDL	Medium	0.1	0.1	0.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	91
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	92
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	93
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	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
bald cypress	Taxodium distichum	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	95
northern white-cedar	Thuja occidentalis	WSH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	96
florida maple	Acer barbatum	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	97
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	98
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	99
water hickory	Carya aquatica	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	100
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	101
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	102
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	103
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	104
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	New Habitat	Low	Absent	Unknown	New Habitat			3	105
blue ash	Fraxinus quadrangulata	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	106
loblolly-bay	Gordonia lasianthus	NSH	Medium	0	0	0	New Habitat	Unknown	Medium	Absent	New Habitat	Unknown	Migrate +		3	107
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	108
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	109
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	New Habitat	Unknown	Medium	Absent	New Habitat	Unknown			3	110
water tupelo	Nyssa aquatica	NSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	111
redbay	Persea borbonia	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	112
water elm	Planera aquatica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	113
overcup oak	Quercus lyrata	NSL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	114
water oak	Quercus nigra	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	115
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	116
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	117
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	118
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	119