

	sq. km	sq. mi	FIA Plots
Area of Region	26,789	10,343	852

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	5			High	23	28	Increase	37	43	Very Good	11	14	Likely	0	0
Hickory	5			Medium	39	63	No Change	22	22	Good	21	23	Infill	24	24
Maple	6	Abundant	6	Low	46	20	Decrease	23	17	Fair	21	21	Migrate	6	10
Oak	18	Common	28	FIA	10		New	17	17	Poor	13	12			
Pine	8	Rare	58				Unknown	19	19	Very Poor	15	11			
Other	50	Absent	22							FIA Only	5	5			
										Unknown	9	9			
	92		114		118	111		118	118		95	95		30	34

Potential Changes in Climate Variables

Temperature (°F)

Scenario	2009	2039	2069	2099		
Annual	CCSM45	50.0	51.3	53.0	53.2	
Average	CCSM85	50.0	51.6	53.5	55.8	
	GFDL45	50.0	52.0	54.1	54.8	
	GFDL85	50.0	52.4	54.9	57.9	
	HAD45	50.0	51.8	54.2	55.2	
	HAD85	50.0	52.0	55.0	58.3	
Growing Season	CCSM45	61.3	62.7	64.2	64.6	
	CCSM85	61.3	62.9	64.9	67.8	
May—Sep	GFDL45	61.3	63.6	66.0	67.1	
	GFDL85	61.3	64.2	67.2	70.4	
	HAD45	61.3	63.5	65.8	67.0	
	HAD85	61.3	63.5	67.2	70.8	
Coldest Month	CCSM45	33.0	34.6	35.4	35.7	
	CCSM85	33.0	35.0	35.8	36.7	
Average	GFDL45	33.0	35.6	35.9	36.4	
	GFDL85	33.0	34.8	35.5	36.5	
	HAD45	33.0	33.9	35.4	35.6	
	HAD85	33.0	34.2	35.3	36.6	
Warmest Month	CCSM45	65.5	67.2	68.0	68.1	
	CCSM85	65.5	67.3	68.7	69.9	
Average	GFDL45	65.5	68.0	69.2	70.1	
	GFDL85	65.5	68.9	70.5	72.4	
	HAD45	65.5	68.0	69.5	70.2	
	HAD85	65.5	68.4	70.7	73.1	

Precipitation (in)

Scenario	2009	2039	2069	2099		
Annual	CCSM45	33.6	36.9	38.7	38.5	
Total	CCSM85	33.6	37.5	38.7	43.3	
	GFDL45	33.6	37.3	39.4	40.7	
	GFDL85	33.6	35.4	39.6	40.6	
	HAD45	33.6	35.9	36.4	35.4	
	HAD85	33.6	37.7	35.7	37.1	
Growing Season	CCSM45	15.4	18.6	19.3	19.2	
	CCSM85	15.4	18.1	18.6	20.7	
May—Sep	GFDL45	15.4	16.9	17.8	18.5	
	GFDL85	15.4	15.7	17.9	18.3	
	HAD45	15.4	17.3	16.3	15.5	
	HAD85	15.4	17.5	16.1	16.2	

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
loblolly pine	Pinus taeda	WDH	High	49	1550.8	22.6	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	1
chestnut oak	Quercus prinus	NDH	High	54.4	1117.7	14.5	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	2
yellow-poplar	Liriodendron tulipifera	WDH	High	76.1	938.2	8.8	Sm. dec.	Lg. dec.	High	Abundant	Good	Good			1	3
red maple	Acer rubrum	WDH	High	90.8	908.9	6.8	No change	No change	High	Abundant	Very Good	Very Good			1	4
white oak	Quercus alba	WDH	Medium	82.1	887.5	7.8	No change	No change	High	Abundant	Very Good	Very Good			1	5
Virginia pine	Pinus virginiana	NDH	High	63	597.3	7.3	Sm. dec.	Lg. dec.	Medium	Abundant	Fair	Fair			0	6
sweetgum	Liquidambar styraciflua	WDH	High	38.7	434.3	7.9	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	7
scarlet oak	Quercus coccinea	WDL	Medium	61.1	395.7	4.8	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	8
northern red oak	Quercus rubra	WDH	Medium	59.8	343.6	4.0	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	9
blackgum	Nyssa sylvatica	WDL	Medium	78.2	296.3	2.6	No change	Sm. inc.	High	Common	Good	Very Good			1	10
eastern white pine	Pinus strobus	WDH	High	26.9	283.9	7.7	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor			0	11
black oak	Quercus velutina	WDH	High	66.4	247.9	2.9	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	12
mockernut hickory	Carya alba	WDL	Medium	62.4	243.8	2.9	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	13
pignut hickory	Carya glabra	WDL	Medium	60.1	202.1	2.4	No change	No change	Medium	Common	Fair	Fair			1	14
eastern redcedar	Juniperus virginiana	WDH	Medium	43.2	175.3	3.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	15
black locust	Robinia pseudoacacia	NDH	Low	38.3	173.0	3.2	No change	No change	Medium	Common	Fair	Fair			1	16
southern red oak	Quercus falcata	WDL	Medium	39.7	167.0	3.1	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	17
American beech	Fagus grandifolia	WDH	High	34.7	163.4	3.0	No change	Sm. inc.	Medium	Common	Fair	Good			1	18
pitch pine	Pinus rigida	NSH	High	23	134.1	4.4	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	19
black cherry	Prunus serotina	WDL	Medium	40	117.6	2.0	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	20
white ash	Fraxinus americana	WDL	Medium	29.8	110.5	2.5	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	21
sweet birch	Betula lenta	NDH	High	22.7	100.0	2.9	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor			0	22
green ash	Fraxinus pennsylvanica	WSH	Low	25.5	96.4	3.1	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	23
American holly	Ilex opaca	NSL	Medium	19	89.0	2.7	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	24
sourwood	Oxydendrum arboreum	NDL	High	27.4	86.3	1.9	Sm. inc.	No change	High	Common	Very Good	Good			1	25
sassafras	Sassafras albidum	WSL	Low	26.5	80.4	2.3	No change	No change	Medium	Common	Fair	Fair			1	26
sugar maple	Acer saccharum	WDH	High	14.7	78.7	3.3	Lg. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	27
black walnut	Juglans nigra	WDH	Low	17.5	74.5	2.7	No change	Sm. inc.	Medium	Common	Fair	Good			1	28
American hornbeam; musclev	Carpinus caroliniana	WDL	Low	30.4	72.4	1.7	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	29
flowering dogwood	Cornus florida	WDL	Medium	47	61.5	1.0	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	30
eastern hemlock	Tsuga canadensis	NSH	High	11.8	61.2	3.0	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair	Infill +	Infill +	1	31
Table Mountain pine	Pinus pungens	NSL	Low	10	58.9	4.2	Lg. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	1	32
ailanthus	Ailanthus altissima	NSL	FIA	16.9	54.6	2.4	Unknown	Unknown	NA	Common	NNIS	NNIS			0	33
sycamore	Platanus occidentalis	NSL	Low	15.8	52.7	2.6	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	34
shortleaf pine	Pinus echinata	WDH	High	18.5	48.3	2.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	35
swamp tupelo	Nyssa biflora	NDH	Medium	5.7	45.5	4.8	No change	No change	Low	Rare	Very Poor	Very Poor			2	36
eastern redbud	Cercis canadensis	NSL	Low	21.3	44.0	1.6	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	37
shagbark hickory	Carya ovata	WSL	Medium	15	40.5	1.8	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	38
post oak	Quercus stellata	WDH	High	21.2	40.4	1.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	39
American basswood	Tilia americana	WSL	Medium	10.2	38.8	2.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	40
willow oak	Quercus phellos	NSL	Low	13.3	38.5	2.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	41
American elm	Ulmus americana	WDH	Medium	16.8	28.7	1.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	42
winged elm	Ulmus alata	WDL	Medium	12.7	28.5	1.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	43
slippery elm	Ulmus rubra	WSL	Low	10.8	27.4	1.5	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	44
bitternut hickory	Carya cordiformis	WSL	Low	13.2	26.8	1.6	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	45
common persimmon	Diospyros virginiana	NSL	Low	10.2	25.9	1.7	Sm. dec.	Lg. inc.	High	Rare	Poor	Good			1	46
river birch	Betula nigra	NSL	Low	7.3	23.2	2.0	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	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
hackberry	Celtis occidentalis	WDH	Medium	7.6	23.2	2.3	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	48
water tupelo	Nyssa aquatica	NSH	Medium	0.8	21.3	12.8	No change	No change	Low	Rare	Very Poor	Very Poor			2	49
striped maple	Acer pensylvanicum	NSL	Medium	8.8	19.8	1.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	50
cucumbertree	Magnolia acuminata	NSL	Low	10.6	19.7	1.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	51
serviceberry	Amelanchier spp.	NSL	Low	17.2	18.3	0.7	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	52
water oak	Quercus nigra	WDH	High	6.4	18.2	1.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	53
paulownia	Paulownia tomentosa	NSL	FIA	4.7	18.1	2.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	54
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	8.9	16.0	1.0	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	55
bald cypress	Taxodium distichum	NSH	Medium	0.7	14.3	10.6	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	56
boxelder	Acer negundo	WSH	Low	4.2	13.5	2.2	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	1	57
yellow birch	Betula alleghaniensis	NDL	High	4.1	12.4	2.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	58
swamp chestnut oak	Quercus michauxii	NSL	Low	2.3	12.3	2.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	59
pawpaw	Asimina triloba	NSL	Low	4.6	9.3	1.3	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	60
pin oak	Quercus palustris	NSH	Low	2.4	7.6	2.7	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	61
sweetbay	Magnolia virginiana	NSL	Medium	3.4	7.2	0.9	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	62
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	0.1	6.0	0.6	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	63
redbay	Persea borbonia	NSL	Low	1.9	5.6	0.8	No change	No change	High	Rare	Fair	Fair	Infill +		2	64
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	1.7	5.0	1.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	65
pin cherry	Prunus pensylvanica	NSL	Low	0.8	3.6	2.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	66
American chestnut	Castanea dentata	NSLX	FIA	6.1	3.4	0.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	67
red mulberry	Morus rubra	NSL	Low	1.8	2.9	1.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	68
butternut	Juglans cinerea	NSLX	FIA	1.2	2.8	1.4	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	69
black willow	Salix nigra	NSH	Low	1.7	2.7	1.0	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair		Infill +	2	70
Siberian elm	Ulmus pumila	NDH	FIA	0.4	2.5	6.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	71
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	0.8	2.5	0.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	72
florida maple	Acer barbatum	NSL	Low	1.8	2.0	0.7	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	73
white mulberry	Morus alba	NSL	FIA	1.7	2.0	1.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	74
pumpkin ash	Fraxinus profunda	NSH	FIA	0.3	2.0	4.5	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	75
blackjack oak	Quercus marilandica	NSL	Medium	1.9	1.9	1.0	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	76
pond pine	Pinus serotina	NSH	Medium	0.1	1.6	1.2	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	77
bigtooth aspen	Populus grandidentata	NSL	Medium	1.7	1.0	0.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	78
laurel oak	Quercus laurifolia	NDH	Medium	0.8	0.9	0.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	79
Scots pine	Pinus sylvestris	NSH	FIA	0.4	0.8	2.1	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	80
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0.8	0.7	1.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	81
Carolina ash	Fraxinus caroliniana	NSL	FIA	0.3	0.6	1.2	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	82
overcup oak	Quercus lyrata	NSL	Medium	0.4	0.5	1.3	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	83
yellow buckeye	Aesculus flava	NSL	Low	0.5	0.4	0.4	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	84
Osage-orange	Maclura pomifera	NDH	Medium	0.4	0.4	1.2	Very Lg. dec.	No change	High	Rare	Lost	Fair		Infill +	2	85
shellbark hickory	Carya laciniosa	NSL	Low	0.4	0.4	1.1	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	86
red spruce	Picea rubens	NDH	High	0.1	0.4	0.1	No change	No change	Low	Rare	Very Poor	Very Poor			0	87
bur oak	Quercus macrocarpa	NDH	Medium	0.4	0.2	0.6	Lg. dec.	Very Lg. dec.	High	Rare	Poor	Lost			0	88
eastern cottonwood	Populus deltoides	NSH	Low	0.4	0.1	0.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	89
honeylocust	Gleditsia triacanthos	NSH	Low	0.4	0.1	0.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	90
mountain maple	Acer spicatum	NSL	Low	0.4	0.1	0.3	No change	No change	High	Rare	Fair	Fair			0	91
black ash	Fraxinus nigra	WSH	Medium	0.3	0.1	0.2	No change	Sm. inc.	Low	Rare	Very Poor	Poor			0	92
slash pine	Pinus elliotii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	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
pond cypress	Taxodium ascendens	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
black maple	Acer nigrum	NSH	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	97
silver maple	Acer saccharinum	NSH	Low	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	98
Ohio buckeye	Aesculus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	99
gray birch	Betula populifolia	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	100
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	101
water hickory	Carya aquatica	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	102
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	103
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	104
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	105
loblolly-bay	Gordonia lasianthus	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	106
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	107
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	108
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	109
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	110
water elm	Planera aquatica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	111
swamp white oak	Quercus bicolor	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	112
shingle oak	Quercus imbricaria	NDH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	113
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	114
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	115
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	116
American mountain-ash	Sorbus americana	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	117
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	118