

	sq. km	sq. mi	FIA Plots
Area of Region	8,362.7	3,228.8	18

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	0				Increase	1	1	Very Good	0	0	Likely	1	1		
Hickory	0				No Change	4	4	Good	0	0	Infill	5	5		
Maple	0	Abundant	0	High	8	8	Decrease	2	2	Fair	1	1	Migrate	0	3
Oak	1	Common	0	Medium	14	21	New	19	18	Poor	6	6		6	9
Pine	1	Rare	7	Low	12	5	Unknown	8	9	Very Poor	0	0			
Other	5	Absent	24	FIA	0					FIA Only	0	0			
	7		31		34	34				15	16				

Potential Changes in Climate Variables

Temperature (°F)

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	75.9	76.9	78.0	78.1	
	CCSM85	75.9	76.9	78.8	80.6	
	GFDL45	75.9	80.5	79.6	80.5	
	GFDL85	75.9	77.9	80.6	83.5	
	HAD45	75.9	77.1	78.9	79.9	
	HAD85	75.9	77.6	79.6	82.5	
Growing Season (May—Sep)	CCSM45	81.7	82.6	83.5	83.7	
	CCSM85	81.7	82.6	84.5	86.4	
	GFDL45	81.7	86.4	85.4	86.4	
	GFDL85	81.7	83.7	86.4	89.4	
	HAD45	81.7	83.2	84.6	85.6	
	HAD85	81.7	83.5	85.7	88.3	
Coldest Month Average	CCSM45	65.8	67.2	68.1	68.0	
	CCSM85	65.8	66.7	67.5	68.8	
	GFDL45	65.8	68.0	68.3	68.8	
	GFDL85	65.8	68.0	69.1	70.2	
	HAD45	65.8	66.3	67.4	67.8	
	HAD85	65.8	66.7	67.4	69.2	
Warmest Month Average	CCSM45	83.4	84.3	84.8	84.8	
	CCSM85	83.4	84.6	85.5	86.5	
	GFDL45	83.4	85.4	86.4	86.9	
	GFDL85	83.4	85.5	87.0	88.6	
	HAD45	83.4	85.0	85.7	86.1	
	HAD85	83.4	85.2	86.3	87.6	

Precipitation (in)

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	53.2	52.2	50.9	55.9	
	CCSM85	53.2	54.2	51.2	44.9	
	GFDL45	53.2	59.7	59.2	59.5	
	GFDL85	53.2	56.4	62.6	54.4	
	HAD45	53.2	56.2	57.0	54.0	
	HAD85	53.2	51.6	52.6	48.8	
Growing Season (May—Sep)	CCSM45	35.9	35.0	33.8	37.2	
	CCSM85	35.9	36.5	34.6	29.1	
	GFDL45	35.9	38.3	36.5	34.0	
	GFDL85	35.9	36.5	36.9	31.1	
	HAD45	35.9	36.5	36.8	31.0	
	HAD85	35.9	33.2	31.5	27.9	

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
pond cypress	Taxodium ascendens	NSH	Medium	9.6	41.0	68.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	1
slash pine	Pinus elliottii	NDH	High	9.6	32.8	54.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	2
redbay	Persea borbonia	NSL	Low	11.1	6.4	6.3	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	3
cabbage palmetto	Sabal palmetto	NDH	Medium	4.8	6.4	21.4	No change	No change	Medium	Rare	Poor	Poor			0	4
bald cypress	Taxodium distichum	NSH	Medium	9.6	5.1	8.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	5
common persimmon	Diospyros virginiana	NSL	Low	4.8	0.2	0.6	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	6
laurel oak	Quercus laurifolia	NDH	Medium	4.8	0.2	0.6	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	7
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	8
eastern redcedar	Juniperus virginiana	WDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	9
sand pine	Pinus clausa	NDH	High	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	10
loblolly pine	Pinus taeda	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	11
boxelder	Acer negundo	WSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	12
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	13
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	14
river birch	Betula nigra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	15
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	16
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	17
hackberry	Celtis occidentalis	WDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	18
American beech	Fagus grandifolia	WDH	High	0	0	0	New Habitat	Unknown	Medium	Absent	New Habitat	Unknown			0	19
green ash	Fraxinus pennsylvanica	WSH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	20
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	21
American holly	Ilex opaca	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	22
sweetgum	Liquidambar styraciflua	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	23
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	24
water tupelo	Nyssa aquatica	NSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	25
overcup oak	Quercus lyrata	NSL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	26
swamp chestnut oak	Quercus michauxii	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	27
Nuttall oak	Quercus texana	NSH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	28
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	29
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	30
black willow	Salix nigra	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	31
American basswood	Tilia americana	WSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	32
winged elm	Ulmus alata	WDL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	33
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	34