

	sq. km	sq. mi	FIA Plots
Area of Region	46,992	18,144	778

**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	3			High	27	29	Increase	28	33	Very Good	9	10	Likely	1	1
Hickory	5			Medium	41	68	No Change	20	14	Good	20	23	Infill	16	13
Maple	7	Abundant	1	Low	46	25	Decrease	27	28	Fair	10	9	Migrate	14	14
Oak	16	Common	29	FIA	14		New	32	32	Poor	18	12			
Pine	7	Rare	59				Unknown	21	21	Very Poor	17	20			
Other	51	Absent	39							FIA Only	8	8			
	<b>89</b>		<b>128</b>		<b>128</b>	<b>122</b>		<b>128</b>	<b>128</b>	Unknown	7	7			
											<b>89</b>	<b>89</b>			

**Potential Changes in Climate Variables**

**Temperature (°F)**

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	51.3	53.1	55.3	55.6	
	CCSM85	51.3	53.5	56.0	59.1	
	GFDL45	51.3	55.5	57.1	58.2	
	GFDL85	51.3	54.6	58.3	62.5	
	HAD45	51.3	54.0	57.3	58.9	
	HAD85	51.3	54.0	58.2	63.0	
Growing Season (May—Sep)	CCSM45	67.7	69.7	71.4	71.9	
	CCSM85	67.7	69.9	72.4	76.1	
	GFDL45	67.7	72.4	74.3	75.6	
	GFDL85	67.7	71.6	75.7	80.1	
	HAD45	67.7	70.6	73.6	75.6	
	HAD85	67.7	70.2	74.9	80.1	
Coldest Month (Average)	CCSM45	26.5	28.3	30.0	30.5	
	CCSM85	26.5	29.0	30.2	32.1	
	GFDL45	26.5	29.8	30.9	31.7	
	GFDL85	26.5	29.8	31.3	33.2	
	HAD45	26.5	28.2	30.7	31.0	
	HAD85	26.5	29.1	31.1	33.7	
Warmest Month (Average)	CCSM45	73.7	76.0	77.0	77.2	
	CCSM85	73.7	76.2	77.9	79.8	
	GFDL45	73.7	76.6	78.5	79.8	
	GFDL85	73.7	77.9	80.3	83.1	
	HAD45	73.7	77.0	78.6	79.8	
	HAD85	73.7	76.8	79.4	83.0	

**Precipitation (in)**

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	45.8	47.7	48.5	52.2	
	CCSM85	45.8	48.2	50.7	54.3	
	GFDL45	45.8	51.0	54.3	53.5	
	GFDL85	45.8	48.6	53.5	55.9	
	HAD45	45.8	48.1	49.5	49.2	
	HAD85	45.8	50.8	48.7	51.6	
Growing Season (May—Sep)	CCSM45	20.7	23.5	23.5	25.1	
	CCSM85	20.7	22.6	24.1	24.7	
	GFDL45	20.7	21.8	22.5	23.3	
	GFDL85	20.7	20.9	22.4	23.0	
	HAD45	20.7	22.0	20.6	20.3	
	HAD85	20.7	21.9	20.1	20.6	

**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.

**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
red maple	Acer rubrum	WDH	High	72.9	899.3	12.2	No change	Sm. dec.	High	Abundant	Very Good	Good			1	1
sugar maple	Acer saccharum	WDH	High	37	453.0	9.7	No change	No change	High	Common	Good	Good			1	2
northern red oak	Quercus rubra	WDH	Medium	52.2	450.2	8.6	No change	No change	High	Common	Good	Good			1	3
white ash	Fraxinus americana	WDL	Medium	51.5	442.3	9.1	No change	Sm. dec.	Low	Common	Poor	Poor			0	4
chestnut oak	Quercus prinus	NDH	High	37.5	377.8	10.3	No change	No change	High	Common	Good	Good			1	5
yellow-poplar	Liriodendron tulipifera	WDH	High	37.6	372.3	13.6	No change	No change	High	Common	Good	Good			1	6
black cherry	Prunus serotina	WDL	Medium	59.5	351.4	8.5	No change	No change	Low	Common	Poor	Poor			0	7
eastern white pine	Pinus strobus	WDH	High	23.5	330.0	11.8	Sm. dec.	Lg. dec.	Low	Common	Poor	Very Poor			0	8
sweet birch	Betula lenta	NDH	High	36.6	253.0	6.5	Sm. dec.	Lg. dec.	Low	Common	Poor	Very Poor			0	9
black oak	Quercus velutina	WDH	High	40.7	213.9	6.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	10
white oak	Quercus alba	WDH	Medium	43.1	183.4	4.9	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	11
eastern hemlock	Tsuga canadensis	NSH	High	15.7	170.7	7.5	Sm. dec.	Lg. dec.	Low	Common	Poor	Very Poor	Infill +		0	12
American elm	Ulmus americana	WDH	Medium	32.9	165.9	5.5	No change	Sm. inc.	Medium	Common	Fair	Good			1	13
eastern redcedar	Juniperus virginiana	WDH	Medium	21.3	142.9	9.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	14
American beech	Fagus grandifolia	WDH	High	30.5	141.4	4.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	15
black locust	Robinia pseudoacacia	NDH	Low	17.9	125.3	9.5	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	16
pitch pine	Pinus rigida	NSH	High	6.3	111.7	17.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	17
pignut hickory	Carya glabra	WDL	Medium	35.7	106.9	3.8	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	18
scarlet oak	Quercus coccinea	WDL	Medium	18.7	103.9	6.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	19
black walnut	Juglans nigra	WDH	Low	21.9	102.9	8.2	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	20
shagbark hickory	Carya ovata	WSL	Medium	23.2	97.8	4.9	No change	No change	Medium	Common	Fair	Fair			1	21
green ash	Fraxinus pennsylvanica	WSH	Low	10.9	82.0	8.6	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	22
blackgum	Nyssa sylvatica	WDL	Medium	27.2	81.5	4.4	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	23
sassafras	Sassafras albidum	WSL	Low	29.8	61.2	3.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	24
swamp white oak	Quercus bicolor	NSL	Low	4.5	61.1	13.5	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	25
pin oak	Quercus palustris	NSH	Low	10.7	60.3	8.5	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	26
mockernut hickory	Carya alba	WDL	Medium	19.4	58.3	4.6	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	27
bitternut hickory	Carya cordiformis	WSL	Low	17.1	55.9	4.8	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	28
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	18.2	54.9	2.4	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	29
boxelder	Acer negundo	WSH	Low	16	53.2	6.0	No change	Sm. inc.	High	Common	Good	Very Good			1	30
yellow birch	Betula alleghaniensis	NDL	High	10.8	49.7	3.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	31
quaking aspen	Populus tremuloides	WDH	High	9.5	48.5	5.0	No change	Sm. dec.	Medium	Rare	Poor	Very Poor	Infill +		1	32
American basswood	Tilia americana	WSL	Medium	11.5	48.2	3.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	33
Norway maple	Acer platanoides	NSL	FIA	12.6	45.6	6.3	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	34
sweetgum	Liquidambar styraciflua	WDH	High	2.6	45.4	12.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	35
eastern cottonwood	Populus deltoides	NSH	Low	2	44.2	22.3	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	36
bigtooth aspen	Populus grandidentata	NSL	Medium	8.1	33.8	3.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
ailanthus	Ailanthus altissima	NSL	FIA	14.9	33.2	4.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	38
flowering dogwood	Cornus florida	WDL	Medium	15	24.8	2.5	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	39
silver maple	Acer saccharinum	NSH	Low	5.6	24.2	9.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	40
Virginia pine	Pinus virginiana	NDH	High	2.3	23.6	11.1	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	41
sycamore	Platanus occidentalis	NSL	Low	5.5	22.5	4.4	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	42
paper birch	Betula papyrifera	WDH	High	4.5	22.3	2.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	43
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	13.2	20.8	1.5	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	44
serviceberry	Amelanchier spp.	NSL	Low	13	17.2	1.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	45
Norway spruce	Picea abies	NSH	FIA	3.9	16.3	8.3	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	46
hackberry	Celtis occidentalis	WDH	Medium	5.9	16.2	3.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	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
Scots pine	Pinus sylvestris	NSH	FIA	0.6	15.0	16.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	48
slippery elm	Ulmus rubra	WSL	Low	4.2	14.5	3.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	49
black willow	Salix nigra	NSH	Low	2.2	13.3	5.6	No change	No change	Low	Rare	Very Poor	Very Poor			2	50
gray birch	Betula populifolia	NSL	Low	3.4	12.4	2.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	51
black ash	Fraxinus nigra	WSH	Medium	2.7	11.4	3.7	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	52
red spruce	Picea rubens	NDH	High	0.8	8.7	3.8	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	53
red pine	Pinus resinosa	NSH	Medium	1.7	8.7	6.9	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	54
striped maple	Acer pensylvanicum	NSL	Medium	3.3	6.7	0.8	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			2	55
bur oak	Quercus macrocarpa	NDH	Medium	0.4	6.2	14.4	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	56
common persimmon	Diospyros virginiana	NSL	Low	0.5	5.1	7.4	No change	Lg. inc.	High	Rare	Fair	Good	Infill +		2	57
pawpaw	Asimina triloba	NSL	Low	1.5	4.6	2.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	58
paulownia	Paulownia tomentosa	NSL	FIA	1	4.5	8.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	59
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	2.6	4.2	2.2	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	60
red mulberry	Morus rubra	NSL	Low	1.9	4.0	5.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	61
white mulberry	Morus alba	NSL	FIA	3.4	3.9	3.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	62
river birch	Betula nigra	NSL	Low	1.6	3.3	2.4	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	63
loblolly pine	Pinus taeda	WDH	High	0.5	3.3	3.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	64
tamarack (native)	Larix laricina	NSH	High	0.4	3.2	4.2	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	65
butternut	Juglans cinerea	NSLX	FIA	1.9	3.1	1.8	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	66
Osage-orange	Maclura pomifera	NDH	Medium	2.8	2.3	9.2	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	2	67
shingle oak	Quercus imbricaria	NDH	Medium	0.4	2.2	5.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	68
southern red oak	Quercus falcata	WDL	Medium	0.2	2.1	3.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	69
northern pin oak	Quercus ellipsoidalis	NSH	Medium	0.2	1.4	2.6	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	70
willow oak	Quercus phellos	NSL	Low	0	1.0	0.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	71
pin cherry	Prunus pensylvanica	NSL	Low	1.1	0.9	1.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	72
chokecherry	Prunus virginiana	NSLX	FIA	0.6	0.9	0.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	73
American chestnut	Castanea dentata	NSLX	FIA	1.7	0.8	0.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	74
eastern redbud	Cercis canadensis	NSL	Low	1.7	0.8	0.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	75
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0.6	0.6	0.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	76
balsam fir	Abies balsamea	NDH	High	0.3	0.6	0.6	Very Lg. dec.	Very Lg. dec.	Low	Rare	Lost	Lost			0	77
swamp chestnut oak	Quercus michauxii	NSL	Low	1.4	0.5	1.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	78
northern catalpa	Catalpa speciosa	NSHX	FIA	1	0.5	3.2	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	79
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	0.2	0.5	2.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	80
jack pine	Pinus banksiana	NSH	Medium	0	0.4	0.4	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	81
American holly	Ilex opaca	NSL	Medium	0.2	0.2	1.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	82
post oak	Quercus stellata	WDH	High	1.7	0.2	0.8	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	83
rock elm	Ulmus thomasii	NSLX	FIA	0.8	0.2	4.0	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	84
shellbark hickory	Carya laciniosa	NSL	Low	0.1	0.1	0.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	85
wild plum	Prunus americana	NSLX	FIA	0.2	0.1	0.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	86
mountain maple	Acer spicatum	NSL	Low	0	0.1	0.1	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	87
white spruce	Picea glauca	NSL	Medium	0.9	0.1	1.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	88
sweetbay	Magnolia virginiana	NSL	Medium	0.6	0.0	0.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	89
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	90
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	91
shortleaf pine	Pinus echinata	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	92
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	93
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			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
Table Mountain pine	<i>Pinus pungens</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	95
pond pine	<i>Pinus serotina</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	96
bald cypress	<i>Taxodium distichum</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	97
florida maple	<i>Acer barbatum</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	98
Ohio buckeye	<i>Aesculus glabra</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	99
yellow buckeye	<i>Aesculus flava</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	100
cittamwood/gum bumelia	<i>Sideroxylon lanuginosum</i> ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	101
water hickory	<i>Carya aquatica</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	102
pecan	<i>Carya illinoensis</i>	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	103
black hickory	<i>Carya texana</i>	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	104
sugarberry	<i>Celtis laevigata</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	105
blue ash	<i>Fraxinus quadrangulata</i>	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	106
honeylocust	<i>Gleditsia triacanthos</i>	NSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	107
silverbell	<i>Halesia</i> spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	108
cucumbertree	<i>Magnolia acuminata</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	109
southern magnolia	<i>Magnolia grandiflora</i>	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	110
bigleaf magnolia	<i>Magnolia macrophylla</i>	NSL	Low	0	0	0	New Habitat	Unknown	Medium	Absent	New Habitat	Unknown			3	111
mountain or Fraser magnolia	<i>Magnolia fraseri</i>	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	112
water tupelo	<i>Nyssa aquatica</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	113
swamp tupelo	<i>Nyssa biflora</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	114
sourwood	<i>Oxydendrum arboreum</i>	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	115
redbay	<i>Persea borbonia</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +		3	116
water elm	<i>Planera aquatica</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	117
cherrybark oak; swamp red o.	<i>Quercus pagoda</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	118
laurel oak	<i>Quercus laurifolia</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	119
overcup oak	<i>Quercus lyrata</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	120
blackjack oak	<i>Quercus marilandica</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	121
water oak	<i>Quercus nigra</i>	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	122
Shumard oak	<i>Quercus shumardii</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	123
live oak	<i>Quercus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	124
bluejack oak	<i>Quercus incana</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	125
American mountain-ash	<i>Sorbus americana</i>	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	126
winged elm	<i>Ulmus alata</i>	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	127
cedar elm	<i>Ulmus crassifolia</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	128