

Climate Change Atlas Tree Species

Current and Potential Future Habitat, Capability, and Migration

	sq. km	sq. mi	FIA Plots
Area of Region	713,010	275,295	7,506

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	5			20	29	Increase	14	15	Very Good	2	3	Likely	0	0
Hickory	8			40	65	No Change	52	54	Good	11	10	Infill	36	36
Maple	5	Abundant	0	44	16	Decrease	18	15	Fair	18	22	Migrate	0	1
Oak	23	Common	14	FIA	16	New	11	11	Poor	34	30		36	37
Pine	6	Rare	86			Unknown	25	25	Very Poor	18	18			
Other	53	Absent	19				120	120	FIA Only	11	11			
	100		119						Unknown	10	10			
										104	104			

Potential Changes in Climate Variables

Temperature (°F)

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	63.0	64.6	66.2	66.8	
	CCSM85	63.0	65.2	67.3	69.9	
	GFDL45	63.0	68.1	67.6	69.0	
	GFDL85	63.0	65.8	68.8	72.7	
	HAD45	63.0	65.2	67.9	68.9	
	HAD85	63.0	65.6	69.6	72.8	
Growing Season (May—Sep)	CCSM45	77.7	79.3	80.8	81.4	
	CCSM85	77.7	80.0	82.0	85.1	
	GFDL45	77.7	84.2	83.1	85.5	
	GFDL85	77.7	81.4	84.8	89.6	
	HAD45	77.7	79.9	82.1	82.9	
	HAD85	77.7	80.4	84.7	87.5	
Coldest Month (Average)	CCSM45	40.8	43.0	43.8	44.3	
	CCSM85	40.8	43.1	44.0	45.5	
	GFDL45	40.8	44.3	44.4	44.6	
	GFDL85	40.8	42.0	43.3	43.9	
	HAD45	40.8	41.7	43.7	44.0	
	HAD85	40.8	43.9	45.7	47.4	
Warmest Month (Average)	CCSM45	83.1	84.7	85.6	86.0	
	CCSM85	83.1	85.6	86.4	88.1	
	GFDL45	83.1	87.6	88.3	89.9	
	GFDL85	83.1	87.7	89.3	92.9	
	HAD45	83.1	85.4	86.6	87.0	
	HAD85	83.1	86.4	88.5	89.7	

Precipitation (in)

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	35.6	36.1	37.6	35.9	
	CCSM85	35.6	35.9	37.7	37.3	
	GFDL45	35.6	36.7	41.3	35.8	
	GFDL85	35.6	36.6	39.6	37.9	
	HAD45	35.6	37.1	36.3	38.2	
	HAD85	35.6	37.3	33.7	36.6	
Growing Season (May—Sep)	CCSM45	17.7	18.0	17.9	17.4	
	CCSM85	17.7	17.8	17.6	17.1	
	GFDL45	17.7	18.7	21.3	18.1	
	GFDL85	17.7	19.1	20.5	19.3	
	HAD45	17.7	17.9	17.8	18.6	
	HAD85	17.7	17.9	15.4	16.5	

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-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
loblolly pine	Pinus taeda	WDH	High	11.6	415.4	38.3	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	1
post oak	Quercus stellata	WDH	High	30.3	332.7	22.6	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	2
ashe juniper	Juniperus ashei	NDH	High	9.9	259.6	45.8	No change	No change	NA	Common	Unknown	Unknown			0	3
live oak	Quercus virginiana	NDH	High	14	207.1	33.0	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	2	4
sweetgum	Liquidambar styraciflua	WDH	High	10.6	122.9	11.7	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	5
shortleaf pine	Pinus echinata	WDH	High	7.8	93.9	11.7	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	6
water oak	Quercus nigra	WDH	High	14.5	90.8	8.6	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	2	7
eastern redcedar	Juniperus virginiana	WDH	Medium	26.3	89.7	12.6	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	8
winged elm	Ulmus alata	WDL	Medium	19.9	88.4	7.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	9
cedar elm	Ulmus crassifolia	NDH	Medium	16.3	71.6	14.8	Lg. inc.	Lg. inc.	Low	Common	Good	Good	Infill ++	Infill ++	1	10
American elm	Ulmus americana	WDH	Medium	29	67.7	10.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	11
sugarberry	Celtis laevigata	NDH	Medium	22.6	60.5	9.2	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	12
blackjack oak	Quercus marilandica	NSL	Medium	17.8	60.0	9.4	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	13
green ash	Fraxinus pennsylvanica	WSH	Low	20.6	50.6	9.4	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	14
southern red oak	Quercus falcata	WDL	Medium	9.7	47.9	5.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	15
Osage-orange	Maclura pomifera	NDH	Medium	14.9	39.3	14.1	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	16
hackberry	Celtis occidentalis	WDH	Medium	19.6	38.4	12.8	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	1	17
black oak	Quercus velutina	WDH	High	7.4	35.0	9.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	18
white oak	Quercus alba	WDH	Medium	5.7	32.8	5.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	19
black hickory	Carya texana	NDL	High	11.2	32.1	5.0	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	20
pecan	Carya illinoensis	NSH	Low	12.4	30.2	11.8	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor	Infill +	Infill +	1	21
mockernut hickory	Carya alba	WDL	Medium	7.8	25.6	3.8	No change	No change	High	Rare	Fair	Fair			0	22
honeylocust	Gleditsia triacanthos	NSH	Low	12.7	24.6	10.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	23
willow oak	Quercus phellos	NSL	Low	4.9	23.2	5.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	24
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	11.7	19.9	5.9	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	25
blackgum	Nyssa sylvatica	WDL	Medium	6.6	19.8	3.0	No change	No change	High	Rare	Fair	Fair			0	26
black walnut	Juglans nigra	WDH	Low	9.4	19.0	10.0	No change	No change	Medium	Rare	Poor	Poor			0	27
black willow	Salix nigra	NSH	Low	7.3	17.6	11.0	No change	No change	Low	Rare	Very Poor	Very Poor			2	28
red mulberry	Morus rubra	NSL	Low	12	15.5	7.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	29
red maple	Acer rubrum	WDH	High	5.6	15.1	2.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	30
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	4.1	14.0	3.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	31
white ash	Fraxinus americana	WDL	Medium	8.4	13.9	3.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	32
common persimmon	Diospyros virginiana	NSL	Low	7	12.1	4.3	No change	No change	High	Rare	Fair	Fair			0	33
sycamore	Platanus occidentalis	NSL	Low	3.7	10.6	6.8	No change	No change	Medium	Rare	Poor	Poor			0	34
eastern cottonwood	Populus deltoides	NSH	Low	5.3	10.1	16.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	35
slash pine	Pinus elliotii	NDH	High	1	10.0	9.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	36
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	3.1	9.9	3.0	No change	No change	Medium	Rare	Poor	Poor			0	37
black cherry	Prunus serotina	WDL	Medium	6.3	8.7	2.0	No change	No change	Low	Rare	Very Poor	Very Poor			2	38
slippery elm	Ulmus rubra	WSL	Low	7.4	8.4	3.9	No change	No change	Medium	Rare	Poor	Poor			0	39
northern red oak	Quercus rubra	WDH	Medium	4.3	8.3	4.6	No change	No change	High	Rare	Fair	Fair			0	40
boxelder	Acer negundo	WSH	Low	6.2	8.1	5.8	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	41
bitternut hickory	Carya cordiformis	WSL	Low	4.6	7.9	4.8	No change	No change	High	Rare	Fair	Fair			0	42
chinkapin oak	Quercus muehlenbergii	NSL	Medium	4.5	7.8	6.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	43
laurel oak	Quercus laurifolia	NDH	Medium	1.7	7.8	4.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	44
bur oak	Quercus macrocarpa	NDH	Medium	4.8	7.7	9.7	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	45
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	3.8	7.4	2.1	No change	No change	High	Rare	Fair	Fair			0	46
river birch	Betula nigra	NSL	Low	1.4	7.2	6.0	No change	No change	Medium	Rare	Poor	Poor			0	47

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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
Shumard oak	Quercus shumardii	NSL	Low	4.7	7.0	4.4	No change	No change	High	Rare	Fair	Fair			0	48
American holly	Ilex opaca	NSL	Medium	3.5	6.9	2.0	No change	No change	Medium	Rare	Poor	Poor			0	49
overcup oak	Quercus lyrata	NSL	Medium	1.3	6.9	5.4	No change	No change	Low	Rare	Very Poor	Very Poor			2	50
flowering dogwood	Cornus florida	WDL	Medium	3.9	5.6	1.5	No change	No change	Medium	Rare	Poor	Poor			0	51
bald cypress	Taxodium distichum	NSH	Medium	0.7	5.0	7.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	52
eastern redbud	Cercis canadensis	NSL	Low	6.5	4.8	2.6	No change	No change	Medium	Rare	Poor	Poor			0	53
sassafras	Sassafras albidum	WSL	Low	3.1	4.7	1.8	No change	No change	Medium	Rare	Poor	Poor			0	54
longleaf pine	Pinus palustris	NSH	Medium	0.6	4.5	6.1	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	55
black locust	Robinia pseudoacacia	NDH	Low	2.1	4.5	18.3	No change	No change	Medium	Rare	Poor	Poor			0	56
Texas ash	Fraxinus texensis	NDH	FIA	1.7	4.1	6.8	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	57
shagbark hickory	Carya ovata	WSL	Medium	1.8	3.6	4.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	58
sweetbay	Magnolia virginiana	NSL	Medium	1	3.5	3.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	59
Siberian elm	Ulmus pumila	NDH	FIA	2.1	3.2	19.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	60
pin oak	Quercus palustris	NSH	Low	1.5	3.0	6.5	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	61
silver maple	Acer saccharinum	NSH	Low	1	2.7	9.7	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	62
water elm	Planera aquatica	NSL	Low	0.6	2.5	5.1	No change	No change	Medium	Rare	Poor	Poor			0	63
swamp chestnut oak	Quercus michauxii	NSL	Low	0.8	2.4	2.8	No change	No change	Medium	Rare	Poor	Poor			0	64
florida maple	Acer barbatum	NSL	Low	1.2	2.3	1.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	65
American beech	Fagus grandifolia	WDH	High	0.7	2.3	2.6	No change	No change	Medium	Rare	Poor	Poor			0	66
bluejack oak	Quercus incana	NSL	Low	0.8	2.1	3.6	No change	No change	Medium	Rare	Poor	Poor			0	67
water hickory	Carya aquatica	NSL	Medium	1	2.1	2.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	68
southern magnolia	Magnolia grandiflora	NSL	Low	0.8	1.9	2.3	No change	No change	Medium	Rare	Poor	Poor			0	69
sugar maple	Acer saccharum	WDH	High	0.3	1.7	9.7	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	2	70
wild plum	Prunus americana	NSLX	FIA	2.4	1.6	2.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	71
redbay	Persea borbonia	NSL	Low	0.9	1.3	1.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	72
water tupelo	Nyssa aquatica	NSH	Medium	0.2	1.1	6.4	No change	No change	Low	Rare	Very Poor	Very Poor			2	73
pignut hickory	Carya glabra	WDL	Medium	0.6	1.0	2.5	No change	No change	Medium	Rare	Poor	Poor			0	74
durand oak	Quercus sinuata var. sinuata	NSL	FIA	0.5	0.9	4.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	75
white mulberry	Morus alba	NSL	FIA	0.6	0.9	6.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	76
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	1.7	0.6	3.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	77
northern catalpa	Catalpa speciosa	NSHX	FIA	0.6	0.6	15.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	78
Nuttall oak	Quercus texana	NSH	Medium	0.2	0.6	3.5	Sm. dec.	No change	High	Rare	Poor	Fair			0	79
peachleaf willow	Salix amygdaloides	NSLX	FIA	0.3	0.5	18.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	80
American basswood	Tilia americana	WSL	Medium	0.7	0.5	1.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	81
swamp tupelo	Nyssa biflora	NDH	Medium	0.1	0.4	2.1	No change	No change	Low	Rare	Very Poor	Very Poor			2	82
waterlocust	Gleditsia aquatica	NSLX	FIA	0.2	0.3	5.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	83
ailanthus	Ailanthus altissima	NSL	FIA	0.1	0.2	2.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	84
serviceberry	Amelanchier spp.	NSL	Low	0.3	0.2	0.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	85
shellbark hickory	Carya laciniosa	NSL	Low	0.2	0.2	2.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	86
pawpaw	Asimina triloba	NSL	Low	0.2	0.1	1.4	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	87
Carolina ash	Fraxinus caroliniana	NSL	FIA	0.1	0.1	4.2	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	88
paulownia	Paulownia tomentosa	NSL	FIA	0.1	0.1	21.2	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	89
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	0.1	0.1	2.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	90
cucumbertree	Magnolia acuminata	NSL	Low	0	0.0	2.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	91
chokecherry	Prunus virginiana	NSLX	FIA	0.1	0.0	11.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	92
shingle oak	Quercus imbricaria	NDH	Medium	0.1	0.0	2.2	No change	No change	Medium	Rare	Poor	Poor			0	93
eastern white pine	Pinus strobus	WDH	High	0.1	0.0	9.4	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	94

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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
Scots pine	<i>Pinus sylvestris</i>	NSH	FIA	0.1	0.0	4.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	95
Ohio buckeye	<i>Aesculus glabra</i>	NSL	Low	0.1	0.0	0.6	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	96
rock elm	<i>Ulmus thomasii</i>	NSLX	FIA	0.1	0.0	5.5	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	97
blue ash	<i>Fraxinus quadrangulata</i>	NSL	Low	0.1	0.0	2.4	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	98
yellow-poplar	<i>Liriodendron tulipifera</i>	WDH	High	0	0.0	0.9	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	99
turkey oak	<i>Quercus laevis</i>	NSH	Medium	0	0.0	0.5	Sm. inc.	Lg. inc.	High	Rare	Good	Good			2	100
Atlantic white-cedar	<i>Chamaecyparis thyoides</i>	NSH	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	101
jack pine	<i>Pinus banksiana</i>	NSH	Medium	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	102
spruce pine	<i>Pinus glabra</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	103
pitch pine	<i>Pinus rigida</i>	NSH	High	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	104
Virginia pine	<i>Pinus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	105
pond cypress	<i>Taxodium ascendens</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	106
striped maple	<i>Acer pensylvanicum</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	107
mountain maple	<i>Acer spicatum</i>	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	108
yellow buckeye	<i>Aesculus flava</i>	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	109
yellow birch	<i>Betula alleghaniensis</i>	NDL	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	110
black ash	<i>Fraxinus nigra</i>	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	111
silverbell	<i>Halesia spp.</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	112
bigleaf magnolia	<i>Magnolia macrophylla</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	113
mountain or Fraser magnolia	<i>Magnolia fraseri</i>	NSL	Low	0	0	0	Unknown	Unknown	NA	Absent	Unknown	Unknown			0	114
sourwood	<i>Oxydendrum arboreum</i>	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	115
pin cherry	<i>Prunus pensylvanica</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	116
scarlet oak	<i>Quercus coccinea</i>	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +		3	117
chestnut oak	<i>Quercus prinus</i>	NDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	118
cabbage palmetto	<i>Sabal palmetto</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	119
American mountain-ash	<i>Sorbus americana</i>	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	120