

Climate Change Atlas Tree Species
Current and Potential Future Habitat, Capability, and Migration

sq. km sq. mi FIA Plots
Area of Region 127,679 49,297 3,645

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	25	29	Increase	31	40	Very Good	13	15	Likely	0	0
Ash	4			Medium	41	65	No Change	38	36	Good	17	23	Infill	44	46
Hickory	8			Low	46	20	Decrease	30	23	Fair	18	18	Migrate	1	1
Maple	7	Abundant	4	FIA	11		New	9	10	Poor	29	27			
Oak	22	Common	33				Unknown	15	14	Very Poor	21	15			
Pine	9	Rare	73							FIA Only	8	8			
Other	60	Absent	12							Unknown	5	4			
	110		122		123	114		123	123		111	110		45	47

Potential Changes in Climate Variables

Temperature (°F)

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	59.3	61.0	63.0	63.1	
	CCSM85	59.3	61.4	63.7	66.5	
	GFDL45	59.3	62.0	64.2	65.1	
	GFDL85	59.3	62.1	65.4	69.0	
	HAD45	59.3	61.3	64.2	65.6	
HAD85	59.3	61.7	65.3	69.4		
Growing Season (May—Sep)	CCSM45	73.1	74.8	76.5	77.0	
	CCSM85	73.1	74.9	77.5	80.9	
	GFDL45	73.1	76.1	78.6	79.9	
	GFDL85	73.1	76.4	80.0	84.0	
	HAD45	73.1	75.8	78.4	80.0	
HAD85	73.1	75.8	80.6	84.7		
Coldest Month Average	CCSM45	38.7	40.9	41.8	41.8	
	CCSM85	38.7	41.1	42.0	43.2	
	GFDL45	38.7	41.9	42.2	42.9	
	GFDL85	38.7	40.7	41.7	42.7	
	HAD45	38.7	39.1	40.9	41.3	
HAD85	38.7	39.7	40.9	42.5		
Warmest Month Average	CCSM45	78.1	80.0	81.0	81.0	
	CCSM85	78.1	80.2	81.8	83.3	
	GFDL45	78.1	80.9	82.0	83.0	
	GFDL85	78.1	81.6	83.4	85.8	
	HAD45	78.1	81.2	82.8	83.5	
HAD85	78.1	81.7	84.7	87.1		

Precipitation (in)

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	48.8	53.5	55.7	56.6	
	CCSM85	48.8	54.0	56.4	62.5	
	GFDL45	48.8	53.6	57.0	60.1	
	GFDL85	48.8	52.6	58.4	58.9	
	HAD45	48.8	51.2	52.6	52.2	
HAD85	48.8	54.2	50.1	50.6		
Growing Season (May—Sep)	CCSM45	23.0	27.2	28.4	29.2	
	CCSM85	23.0	26.3	27.6	30.8	
	GFDL45	23.0	26.2	28.5	29.9	
	GFDL85	23.0	25.2	29.7	30.1	
	HAD45	23.0	24.1	23.9	23.7	
HAD85	23.0	26.2	22.8	21.6		

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
loblolly pine	Pinus taeda	WDH	High	61.4	2254.0	33.0	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	1
red maple	Acer rubrum	WDH	High	88	1003.3	10.2	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	2
sweetgum	Liquidambar styraciflua	WDH	High	66.3	838.8	11.9	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	3
yellow-poplar	Liriodendron tulipifera	WDH	High	66.1	776.1	10.6	Sm. dec.	Lg. dec.	High	Abundant	Good	Good			1	4
white oak	Quercus alba	WDH	Medium	55.4	367.3	6.2	No change	No change	High	Common	Good	Good			1	5
Virginia pine	Pinus virginiana	NDH	High	28.7	314.1	9.8	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	6
chestnut oak	Quercus prinus	NDH	High	20.8	240.6	9.4	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	7
pond pine	Pinus serotina	NSH	Medium	11.9	219.7	17.0	No change	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +	0	8
sourwood	Oxydendrum arboreum	NDL	High	44.7	204.0	4.0	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	9
swamp tupelo	Nyssa biflora	NDH	Medium	24.4	189.3	6.8	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair	Infill +	Infill +	1	10
water oak	Quercus nigra	WDH	High	33.3	185.8	5.1	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	11
shortleaf pine	Pinus echinata	WDH	High	26.9	157.6	5.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	12
eastern white pine	Pinus strobus	WDH	High	13.4	154.4	9.1	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	13
northern red oak	Quercus rubra	WDH	Medium	34.4	151.4	3.9	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	14
scarlet oak	Quercus coccinea	WDL	Medium	27.4	140.1	4.4	No change	Sm. dec.	Medium	Common	Fair	Poor			1	15
black cherry	Prunus serotina	WDL	Medium	43.9	135.7	2.9	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	16
longleaf pine	Pinus palustris	NSH	Medium	8.9	131.5	14.2	No change	Sm. inc.	Medium	Common	Fair	Good	Infill +	Infill ++	1	17
southern red oak	Quercus falcata	WDL	Medium	35.6	128.4	3.4	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	18
blackgum	Nyssa sylvatica	WDL	Medium	49.5	115.1	2.1	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	19
pignut hickory	Carya glabra	WDL	Medium	35.3	113.9	3.1	No change	No change	Medium	Common	Fair	Fair			1	20
eastern redcedar	Juniperus virginiana	WDH	Medium	23.2	98.6	4.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	21
mockernut hickory	Carya alba	WDL	Medium	34.7	94.7	2.6	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	22
American holly	Ilex opaca	NSL	Medium	35.8	88.4	2.4	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	23
sweet birch	Betula lenta	NDH	High	14.2	85.0	4.7	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +	2	24
black locust	Robinia pseudoacacia	NDH	Low	16.6	80.0	4.0	Sm. dec.	No change	Medium	Common	Poor	Fair	Infill +	Infill +	1	25
flowering dogwood	Cornus florida	WDL	Medium	41.2	77.4	1.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	26
American beech	Fagus grandifolia	WDH	High	22.5	77.2	3.2	No change	Sm. inc.	Medium	Common	Fair	Good	Infill +	Infill ++	1	27
green ash	Fraxinus pennsylvanica	WSH	Low	18.4	76.3	4.1	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	28
black oak	Quercus velutina	WDH	High	25.3	68.9	2.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	29
eastern hemlock	Tsuga canadensis	NSH	High	11.1	64.9	4.2	Sm. inc.	No change	Low	Common	Fair	Poor	Infill +	Infill +	2	30
willow oak	Quercus phellos	NSL	Low	18.6	63.5	3.3	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	31
redbay	Persea borbonia	NSL	Low	17.8	63.1	2.9	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	32
American hornbeam; muscley	Carpinus caroliniana	WSL	Low	23.6	62.8	2.4	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	33
white ash	Fraxinus americana	WDL	Medium	18.9	62.2	3.1	No change	Sm. inc.	Low	Common	Poor	Fair			1	34
sweetbay	Magnolia virginiana	NSL	Medium	20.6	58.4	2.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	35
post oak	Quercus stellata	WDH	High	20.5	55.3	2.6	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	36
loblolly-bay	Gordonia lasianthus	NSH	Medium	6.9	51.7	6.9	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	37
American elm	Ulmus americana	WDH	Medium	20.2	49.5	2.5	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	38
winged elm	Ulmus alata	WDL	Medium	15.5	45.5	2.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	39
river birch	Betula nigra	NSL	Low	7.3	43.1	5.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	40
bald cypress	Taxodium distichum	NSH	Medium	7.9	42.7	4.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	41
laurel oak	Quercus laurifolia	NDH	Medium	12.3	41.1	3.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	42
water tupelo	Nyssa aquatica	NSH	Medium	3.4	40.4	11.1	No change	No change	Low	Rare	Very Poor	Very Poor			2	43
pitch pine	Pinus rigida	NSH	High	6.3	33.7	3.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	44
sycamore	Platanus occidentalis	NSL	Low	7	30.4	3.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	45
slash pine	Pinus elliotii	NDH	High	1.9	30.4	14.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	46
black walnut	Juglans nigra	WDH	Low	8	27.3	3.1	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	1	47

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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
sugar maple	Acer saccharum	WDH	High	5.9	26.3	3.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	48
common persimmon	Diospyros virginiana	NSL	Low	11.3	23.7	2.0	Lg. dec.	Sm. dec.	High	Rare	Poor	Poor			1	49
turkey oak	Quercus laevis	NSH	Medium	4.1	23.6	5.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	50
black willow	Salix nigra	NSH	Low	5.1	21.9	3.9	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	1	51
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	7.2	21.2	2.2	No change	No change	NA	Rare	Unknown	Unknown			0	52
pond cypress	Taxodium ascendens	NSH	Medium	2.4	20.3	8.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	53
yellow birch	Betula alleghaniensis	NDL	High	3.9	20.1	3.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	54
red spruce	Picea rubens	NDH	High	0.9	18.7	12.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	55
hackberry	Celtis occidentalis	WDH	Medium	4	18.5	4.8	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	2	56
blackjack oak	Quercus marilandica	NSL	Medium	4.3	18.3	3.8	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	57
sassafras	Sassafras albidum	WSL	Low	11.8	17.7	1.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	58
boxelder	Acer negundo	WSH	Low	4	17.4	4.0	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	1	59
slippery elm	Ulmus rubra	WSL	Low	7	17.0	2.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	60
shagbark hickory	Carya ovata	WSL	Medium	6	17.0	2.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	61
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	2.9	16.0	5.6	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	62
ailanthus	Ailanthus altissima	NSL	FIA	3.4	15.3	4.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	63
swamp chestnut oak	Quercus michauxii	NSL	Low	6.6	14.2	2.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	64
serviceberry	Amelanchier spp.	NSL	Low	8.3	11.4	1.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	65
eastern redbud	Cercis canadensis	NSL	Low	6.9	11.4	1.6	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	66
American basswood	Tilia americana	WSL	Medium	3.6	10.9	2.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	67
yellow buckeye	Aesculus flava	NSL	Low	3.1	10.5	2.4	No change	No change	Low	Rare	Very Poor	Very Poor			2	68
cucumbertree	Magnolia acuminata	NSL	Low	4.4	10.4	1.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	69
silverbell	Halesia spp.	NSL	Low	3.8	10.3	2.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	70
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	3.8	10.2	2.6	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	71
pumpkin ash	Fraxinus profunda	NSH	FIA	1.8	9.9	5.7	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	72
florida maple	Acer barbatum	NSL	Low	2.7	7.5	2.5	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	2	73
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	4.5	7.2	1.4	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	74
sugarberry	Celtis laevigata	NDH	Medium	1.2	7.2	4.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	75
bitternut hickory	Carya cordiformis	WSL	Low	4.2	6.6	1.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	76
pecan	Carya illinoensis	NSH	Low	1.2	6.1	8.7	No change	Lg. inc.	Low	Rare	Very Poor	Fair		Infill +	2	77
live oak	Quercus virginiana	NDH	High	0.9	5.8	4.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	78
red mulberry	Morus rubra	NSL	Low	3.4	5.0	1.3	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	1	79
pin cherry	Prunus pensylvanica	NSL	Low	0.8	4.4	3.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	80
Table Mountain pine	Pinus pungens	NSL	Low	1.1	4.1	3.1	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	81
Carolina ash	Fraxinus caroliniana	NSL	FIA	1.2	3.3	3.3	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	82
eastern cottonwood	Populus deltoides	NSH	Low	1.2	3.1	2.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	83
overcup oak	Quercus lyrata	NSL	Medium	2	2.9	1.6	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair	Infill +	Infill +	2	84
butternut	Juglans cinerea	NSLX	FIA	0.5	2.9	6.1	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	85
American chestnut	Castanea dentata	NSLX	FIA	2.4	2.5	0.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	86
paulownia	Paulownia tomentosa	NSL	FIA	0.8	2.3	2.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	87
Shumard oak	Quercus shumardii	NSL	Low	1	1.9	1.7	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	2	88
honeylocust	Gleditsia triacanthos	NSH	Low	0.8	1.9	1.9	No change	Sm. inc.	High	Rare	Fair	Good	Infill +		2	89
bluejack oak	Quercus incana	NSL	Low	0.9	1.4	1.4	No change	Lg. inc.	Medium	Rare	Poor	Good	Infill +		2	90
water hickory	Carya aquatica	NSL	Medium	0.5	1.2	2.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	91
southern magnolia	Magnolia grandiflora	NSL	Low	0.6	1.0	1.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	92
white mulberry	Morus alba	NSL	FIA	0.3	0.6	1.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	93
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0.3	0.6	1.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	94

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pawpaw	Asimina triloba	NSL	Low	0.8	0.6	0.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	95
sand hickory	Carya pallida	NSL	FIA	0.3	0.6	0.9	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	96
shingle oak	Quercus imbricaria	NDH	Medium	0.2	0.4	2.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	97
mountain maple	Acer spicatum	NSL	Low	0.3	0.3	0.7	No change	No change	High	Rare	Fair	Fair			0	98
shellbark hickory	Carya laciniosa	NSL	Low	0.2	0.3	0.5	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	99
American mountain-ash	Sorbus americana	NSL	Low	0.2	0.2	0.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	100
swamp white oak	Quercus bicolor	NSL	Low	0.2	0.2	0.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	101
northern white-cedar	Thuja occidentalis	WSH	High	0.1	0.2	2.1	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	102
bigtooth aspen	Populus grandidentata	NSL	Medium	0.1	0.2	1.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	103
wild plum	Prunus americana	NSLX	FIA	0.2	0.1	0.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	104
silver maple	Acer saccharinum	NSH	Low	0.2	0.1	0.8	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	105
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0.1	0.1	0.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	106
northern catalpa	Catalpa speciosa	NSHX	FIA	0.1	0.1	0.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	107
black maple	Acer nigrum	NSH	Low	0.1	0.0	0.3	No change	No change	High	Rare	Fair	Fair			0	108
Osage-orange	Maclura pomifera	NDH	Medium	0.2	0.0	0.5	Lg. dec.	Lg. inc.	High	Rare	Poor	Good			2	109
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	0.1	0.0	0.2	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	110
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	111
sand pine	Pinus clausa	NDH	High	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++		3	112
spruce pine	Pinus glabra	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	113
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			2	114
Ohio buckeye	Aesculus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	115
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	116
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	117
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	118
blue ash	Fraxinus quadrangulata	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	119
water elm	Planera aquatica	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat	Migrate +		3	120
Nuttall oak	Quercus texana	NSH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	121
cabbage palmetto	Sabal palmetto	NDH	Medium	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	122
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	123