

	sq. km	sq. mi	FIA Plots
Area of Region	109,153	42,144	2,774

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	24	29	Increase	33	37	Very Good	14	19	Likely	1	1
Hickory	8			Medium	38	65	No Change	25	25	Good	21	17	Infill	22	25
Maple	7	Abundant	3	Low	46	19	Decrease	36	32	Fair	13	15	Migrate	4	6
Oak	21	Common	41	FIA	12		New	10	12	Poor	24	25			
Pine	7	Rare	62				Unknown	16	14	Very Poor	21	17			
Other	60	Absent	13							FIA Only	8	8			
	106		119		120	113		120	120	Unknown	5	3			
											106	104			

Potential Changes in Climate Variables

Temperature (°F)

Scenario	2009	2039	2069	2099		
Annual	CCSM45	57.9	59.7	61.9	62.1	
Average	CCSM85	57.9	60.1	62.7	65.6	
	GFDL45	57.9	60.9	62.9	63.6	
	GFDL85	57.9	60.6	63.9	67.4	
	HAD45	57.9	60.3	63.5	64.7	
	HAD85	57.9	60.7	65.2	69.0	
Growing Season	CCSM45	72.6	74.3	76.3	76.9	
	CCSM85	72.6	74.7	77.5	81.3	
May—Sep	GFDL45	72.6	76.1	78.4	79.7	
	GFDL85	72.6	75.9	79.8	83.9	
	HAD45	72.6	75.9	78.9	80.4	
	HAD85	72.6	76.2	82.6	86.2	
Coldest Month	CCSM45	35.4	37.4	38.7	38.9	
	CCSM85	35.4	38.3	39.3	40.8	
Average	GFDL45	35.4	38.9	38.9	39.3	
	GFDL85	35.4	37.0	38.2	38.7	
	HAD45	35.4	35.7	37.8	38.2	
	HAD85	35.4	36.9	38.6	40.2	
Warmest Month	CCSM45	77.7	79.4	80.5	80.6	
	CCSM85	77.7	79.8	81.3	83.1	
Average	GFDL45	77.7	81.1	82.4	83.2	
	GFDL85	77.7	81.2	83.4	85.7	
	HAD45	77.7	82.0	84.4	85.0	
	HAD85	77.7	83.1	87.5	89.1	

Precipitation (in)

Scenario	2009	2039	2069	2099		
Annual	CCSM45	52.9	54.8	59.6	57.8	
Total	CCSM85	52.9	57.9	58.8	62.9	
	GFDL45	52.9	59.7	62.4	65.6	
	GFDL85	52.9	59.8	63.5	66.4	
	HAD45	52.9	50.8	55.5	56.1	
	HAD85	52.9	53.9	49.7	54.2	
Growing Season	CCSM45	21.5	21.4	22.5	22.2	
	CCSM85	21.5	22.5	20.9	22.7	
May—Sep	GFDL45	21.5	24.9	25.3	26.4	
	GFDL85	21.5	24.9	26.1	27.0	
	HAD45	21.5	20.3	20.4	20.2	
	HAD85	21.5	21.4	16.7	18.1	

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
yellow-poplar	Liriodendron tulipifera	WDH	High	66.3	657.3	9.0	Lg. dec.	Lg. dec.	High	Abundant	Good	Good			1	1
white oak	Quercus alba	WDH	Medium	61.7	611.4	9.5	No change	No change	High	Abundant	Very Good	Very Good			1	2
red maple	Acer rubrum	WDH	High	61.4	519.1	7.8	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	3
eastern redcedar	Juniperus virginiana	WDH	Medium	46.1	462.5	9.9	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	4
chestnut oak	Quercus prinus	NDH	High	37.5	405.3	9.6	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	5
sweetgum	Liquidambar styraciflua	WDH	High	43.3	385.2	10.0	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	6
loblolly pine	Pinus taeda	WDH	High	22	379.3	16.1	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	7
sugar maple	Acer saccharum	WDH	High	49.3	352.0	6.7	Lg. dec.	Lg. dec.	High	Common	Fair	Fair			1	8
Virginia pine	Pinus virginiana	NDH	High	28.2	303.6	9.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	9
pignut hickory	Carya glabra	WDL	Medium	57.3	283.7	4.7	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	10
scarlet oak	Quercus coccinea	WDL	Medium	39.7	216.3	5.0	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	11
blackgum	Nyssa sylvatica	WDL	Medium	58.6	208.8	3.3	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	12
sourwood	Oxydendrum arboreum	NDL	High	45.7	208.6	4.1	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	13
southern red oak	Quercus falcata	WDL	Medium	35	206.5	6.1	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	14
winged elm	Ulmus alata	WDL	Medium	47.9	198.8	4.6	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	15
mockernut hickory	Carya alba	WDL	Medium	46.4	192.4	4.1	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	16
black cherry	Prunus serotina	WDL	Medium	47.3	192.0	3.7	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	17
black oak	Quercus velutina	WDH	High	47	187.2	3.8	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	18
shagbark hickory	Carya ovata	WSL	Medium	38.3	166.4	4.4	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	19
American beech	Fagus grandifolia	WDH	High	34.5	163.8	4.0	No change	No change	Medium	Common	Fair	Fair			1	20
post oak	Quercus stellata	WDH	High	32.4	160.3	4.9	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	21
northern red oak	Quercus rubra	WDH	Medium	38.1	152.8	3.5	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	22
sassafras	Sassafras albidum	WSL	Low	39.9	148.8	3.6	Sm. dec.	No change	Medium	Common	Poor	Fair			1	23
hackberry	Celtis occidentalis	WDH	Medium	21.3	142.9	7.1	No change	Sm. inc.	High	Common	Good	Very Good			1	24
white ash	Fraxinus americana	WDL	Medium	31.7	138.8	4.2	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	25
American elm	Ulmus americana	WDH	Medium	32.6	121.6	3.8	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	26
black locust	Robinia pseudoacacia	NDH	Low	26.1	120.6	4.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	27
green ash	Fraxinus pennsylvanica	WSH	Low	36.1	119.0	3.6	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	28
shortleaf pine	Pinus echinata	WDH	High	19	111.7	5.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	29
flowering dogwood	Cornus florida	WDL	Medium	45.5	103.8	2.1	No change	No change	Medium	Common	Fair	Fair			1	30
boxelder	Acer negundo	WSH	Low	20.9	101.5	6.1	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	31
black walnut	Juglans nigra	WDH	Low	26.7	94.2	3.5	No change	No change	Medium	Common	Fair	Fair			1	32
chinkapin oak	Quercus muehlenbergii	NSL	Medium	23.7	85.9	3.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	33
eastern white pine	Pinus strobus	WDH	High	10.5	83.1	6.3	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	34
eastern hemlock	Tsuga canadensis	NSH	High	11	79.9	5.1	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +	2	35
sycamore	Platanus occidentalis	NSL	Low	18.2	72.0	4.4	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	36
sugarberry	Celtis laevigata	NDH	Medium	13.8	70.3	5.8	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	37
slippery elm	Ulmus rubra	WSL	Low	26.7	64.1	2.8	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	38
bitternut hickory	Carya cordiformis	WSL	Low	15.9	59.7	3.6	No change	No change	High	Common	Good	Good			1	39
black willow	Salix nigra	NSH	Low	8.1	59.4	9.5	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	40
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	26.8	55.7	2.0	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	41
common persimmon	Diospyros virginiana	NSL	Low	22.2	54.1	2.5	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	42
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	11.8	51.9	5.4	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	1	43
Osage-orange	Maclura pomifera	NDH	Medium	6.1	50.2	8.6	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	44
ailanthus	Ailanthus altissima	NSL	FIA	12	44.6	3.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	45
eastern redbud	Cercis canadensis	NSL	Low	24.1	44.1	1.8	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	46
sweet birch	Betula lenta	NDH	High	6.8	35.2	2.8	No change	No change	Low	Rare	Very Poor	Very Poor			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
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	15.8	35.2	2.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	48
American basswood	Tilia americana	WSL	Medium	7.7	27.6	2.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	49
yellow buckeye	Aesculus flava	NSL	Low	7.3	27.0	2.6	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	50
willow oak	Quercus phellos	NSL	Low	6.5	26.5	5.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	51
red mulberry	Morus rubra	NSL	Low	12.6	23.8	2.0	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	52
honeylocust	Gleditsia triacanthos	NSH	Low	7.5	20.3	2.8	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	53
blue ash	Fraxinus quadrangulata	NSL	Low	5.1	19.7	4.4	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	54
silver maple	Acer saccharinum	NSH	Low	4.3	18.8	6.6	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	55
water tupelo	Nyssa aquatica	NSH	Medium	1.7	16.6	13.9	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			2	56
river birch	Betula nigra	NSL	Low	4.7	14.9	4.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	57
pitch pine	Pinus rigida	NSH	High	3.9	14.8	2.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	58
Shumard oak	Quercus shumardii	NSL	Low	4	14.1	3.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	59
bald cypress	Taxodium distichum	NSH	Medium	2.9	13.0	9.1	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	60
cucumbertree	Magnolia acuminata	NSL	Low	5.9	12.8	1.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	61
blackjack oak	Quercus marilandica	NSL	Medium	3	12.8	3.7	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	62
serviceberry	Amelanchier spp.	NSL	Low	9.3	12.7	1.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	63
pecan	Carya illinoensis	NSH	Low	3.1	11.5	8.1	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	64
water oak	Quercus nigra	WDH	High	4.8	11.2	2.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	65
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	3.3	11.1	2.4	No change	No change	NA	Rare	Unknown	Unknown			0	66
yellow birch	Betula alleghaniensis	NDL	High	2.1	10.9	3.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	67
paulownia	Paulownia tomentosa	NSL	FIA	4.6	10.6	2.3	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	68
red spruce	Picea rubens	NDH	High	0.3	9.5	9.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	69
swamp chestnut oak	Quercus michauxii	NSL	Low	3.4	8.7	3.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	70
eastern cottonwood	Populus deltoides	NSH	Low	3	7.2	4.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	71
Table Mountain pine	Pinus pungens	NSL	Low	1.3	6.6	4.2	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	72
shellbark hickory	Carya laciniosa	NSL	Low	2.5	5.9	2.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	73
American holly	Ilex opaca	NSL	Medium	4.5	4.9	1.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	74
pawpaw	Asimina triloba	NSL	Low	3.7	4.8	1.1	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	75
florida maple	Acer barbatum	NSL	Low	0.7	4.4	3.3	Sm. inc.	Lg. inc.	High	Rare	Good	Good			2	76
sand hickory	Carya pallida	NSL	FIA	2.4	3.6	1.8	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	77
white mulberry	Morus alba	NSL	FIA	2.4	3.3	1.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	78
overcup oak	Quercus lyrata	NSL	Medium	1.8	3.0	4.0	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	2	79
Nuttall oak	Quercus texana	NSH	Medium	0.6	3.0	8.3	No change	No change	High	Rare	Fair	Fair			0	80
pin cherry	Prunus pensylvanica	NSL	Low	0.7	2.9	1.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	81
shingle oak	Quercus imbricaria	NDH	Medium	0.8	2.9	2.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	82
bigleaf magnolia	Magnolia macrophylla	NSL	Low	2.1	2.2	1.0	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	83
butternut	Juglans cinerea	NSLX	FIA	1.1	1.8	1.7	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	84
silverbell	Halesia spp.	NSL	Low	0.5	1.4	1.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	85
pin oak	Quercus palustris	NSH	Low	0.4	1.3	3.5	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	86
bigtooth aspen	Populus grandidentata	NSL	Medium	0.2	0.9	4.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	87
wild plum	Prunus americana	NSLX	FIA	0.6	0.9	1.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	88
water elm	Planera aquatica	NSL	Low	0.7	0.8	2.7	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	89
American chestnut	Castanea dentata	NSLX	FIA	0.9	0.7	0.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	90
rock elm	Ulmus thomasii	NSLX	FIA	0.3	0.7	1.8	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	91
Ohio buckeye	Aesculus glabra	NSL	Low	0.5	0.6	0.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	92
sweetbay	Magnolia virginiana	NSL	Medium	0.1	0.5	5.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	93
swamp white oak	Quercus bicolor	NSL	Low	0.3	0.5	1.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	94

Climate Change Atlas Tree Species

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
chokecherry	Prunus virginiana	NSLX	FIA	0.1	0.3	3.2	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	95
laurel oak	Quercus laurifolia	NDH	Medium	0.5	0.3	2.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	96
bur oak	Quercus macrocarpa	NDH	Medium	0.5	0.3	1.8	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	97
swamp tupelo	Nyssa biflora	NDH	Medium	0.5	0.3	1.2	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair	Infill +		2	98
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	0.2	0.2	1.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	99
southern magnolia	Magnolia grandiflora	NSL	Low	0.2	0.2	1.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	100
water hickory	Carya aquatica	NSL	Medium	0.3	0.1	0.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	101
mountain maple	Acer spicatum	NSL	Low	0.1	0.1	0.1	No change	No change	High	Rare	Fair	Fair			0	102
Siberian elm	Ulmus pumila	NDH	FIA	0.1	0.1	0.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	103
slash pine	Pinus elliotii	NDH	High	0	0.0	0.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	104
black maple	Acer nigrum	NSH	Low	0	0.0	0.1	Lg. dec.	Sm. dec.	High	Rare	Poor	Poor			0	105
waterlocust	Gleditsia aquatica	NSLX	FIA	0.4	0.0	1.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	106
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	107
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	108
pond cypress	Taxodium ascendens	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	109
northern white-cedar	Thuja occidentalis	WSH	High	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	110
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	111
gray birch	Betula populifolia	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	112
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	113
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	114
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	115
redbay	Persea borbonia	NSL	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			3	116
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	117
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	118
American mountain-ash	Sorbus americana	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	119
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	120