

# HUC 020801 Lower Chesapeake

## HUC 6 Watershed Climate Change Atlas Tree Species

USDA Forest Service  
Northern Research Station  
Landscape Change Research Group  
Iverson, Peters, Prasad, Matthews

### Current and Potential Future Habitat, Capability, and Migration

	sq. km	sq. mi	FIA Plots
Area of Region	26,783	10,341	578

### 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	23	27	Increase	29	36	Very Good	7	8	Likely	1	1
Hickory	6			Medium	40	65	No Change	17	15	Good	20	23	Infill	22	25
Maple	4	Abundant	5	Low	41	17	Decrease	34	29	Fair	12	16	Migrate	5	6
Oak	18	Common	21	FIA	9		New	17	17	Poor	19	14			
Pine	6	Rare	63				Unknown	16	16	Very Poor	21	19			
Other	52	Absent	23							FIA Only	6	6			
	<b>89</b>		<b>112</b>		<b>113</b>	<b>109</b>		<b>113</b>	<b>113</b>	Unknown	7	7			
											<b>92</b>	<b>93</b>			

### Potential Changes in Climate Variables

#### Temperature (°F)

Scenario	2009	2039	2069	2099		
Annual	CCSM45	49.4	50.5	51.9	52.1	
Average	CCSM85	49.4	50.8	52.4	54.4	
	GFDL45	49.4	51.2	53.0	53.8	
	GFDL85	49.4	51.5	53.8	56.5	
	HAD45	49.4	50.9	53.1	54.0	
	HAD85	49.4	51.1	53.6	56.5	
Growing Season	CCSM45	59.9	61.0	62.3	62.5	
	CCSM85	59.9	61.2	62.9	65.3	
May—Sep	GFDL45	59.9	62.0	64.1	65.1	
	GFDL85	59.9	62.5	65.1	68.1	
	HAD45	59.9	61.7	63.7	64.7	
	HAD85	59.9	61.6	64.6	67.7	
Coldest Month	CCSM45	33.6	35.1	35.9	36.2	
	CCSM85	33.6	35.5	36.2	37.2	
Average	GFDL45	33.6	35.8	36.2	36.6	
	GFDL85	33.6	35.3	36.1	37.1	
	HAD45	33.6	34.5	35.8	36.0	
	HAD85	33.6	34.8	35.9	37.1	
Warmest Month	CCSM45	63.8	65.2	65.8	65.9	
	CCSM85	63.8	65.2	66.5	67.4	
Average	GFDL45	63.8	65.9	66.9	67.8	
	GFDL85	63.8	66.7	68.1	69.9	
	HAD45	63.8	65.9	67.1	67.6	
	HAD85	63.8	66.0	67.8	69.8	

#### Precipitation (in)

Scenario	2009	2039	2069	2099		
Annual	CCSM45	30.9	33.7	35.6	35.4	
Total	CCSM85	30.9	34.4	35.2	39.8	
	GFDL45	30.9	34.4	36.7	37.5	
	GFDL85	30.9	32.6	36.8	37.6	
	HAD45	30.9	32.9	33.5	32.4	
	HAD85	30.9	35.6	32.5	33.7	
Growing Season	CCSM45	14.1	17.1	17.9	17.9	
	CCSM85	14.1	16.8	17.2	19.5	
May—Sep	GFDL45	14.1	15.3	16.7	17.2	
	GFDL85	14.1	14.5	16.6	17.0	
	HAD45	14.1	15.7	14.9	13.6	
	HAD85	14.1	16.1	13.9	13.8	

**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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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	70.9	2046.1	25.1	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	1
yellow-poplar	Liriodendron tulipifera	WDH	High	72.2	905.0	10.8	Lg. dec.	Lg. dec.	High	Abundant	Good	Good			1	2
red maple	Acer rubrum	WDH	High	87.3	902.4	9.2	No change	No change	High	Abundant	Very Good	Very Good			1	3
sweetgum	Liquidambar styraciflua	WDH	High	71.7	693.3	8.3	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	4
white oak	Quercus alba	WDH	Medium	67.7	596.4	7.8	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	5
Virginia pine	Pinus virginiana	NDH	High	53	445.8	7.6	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	6
American holly	Ilex opaca	NSL	Medium	59.7	309.0	4.5	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	7
southern red oak	Quercus falcata	WDL	Medium	51	216.2	4.0	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	8
blackgum	Nyssa sylvatica	WDL	Medium	72.5	212.8	2.6	No change	Sm. inc.	High	Common	Good	Very Good			1	9
American beech	Fagus grandifolia	WDH	High	43	192.1	4.3	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	10
chestnut oak	Quercus prinus	NDH	High	18.5	169.5	7.8	Sm. dec.	Lg. dec.	High	Common	Fair	Fair			1	11
black oak	Quercus velutina	WDH	High	38.1	143.9	3.0	Sm. inc.	No change	Medium	Common	Good	Fair			1	12
eastern redcedar	Juniperus virginiana	WDH	Medium	32.8	139.2	3.6	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	13
northern red oak	Quercus rubra	WDH	Medium	34.7	138.4	3.5	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	14
scarlet oak	Quercus coccinea	WDL	Medium	36.7	133.8	3.0	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	15
black cherry	Prunus serotina	WDL	Medium	45.5	130.8	2.6	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	16
pignut hickory	Carya glabra	WDL	Medium	44	124.1	2.4	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	17
mockernut hickory	Carya alba	WDL	Medium	39.7	120.1	2.5	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	18
black locust	Robinia pseudoacacia	NDH	Low	14.1	77.5	3.4	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	19
willow oak	Quercus phellos	NSL	Low	27.3	70.2	2.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	20
green ash	Fraxinus pennsylvanica	WSH	Low	15	67.4	4.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	21
white ash	Fraxinus americana	WDL	Medium	19.2	64.2	2.8	No change	No change	Low	Common	Poor	Poor			0	22
sassafras	Sassafras albidum	WSL	Low	26.2	60.8	1.8	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	23
flowering dogwood	Cornus florida	WDL	Medium	32.7	56.5	1.3	No change	No change	Medium	Common	Fair	Fair			1	24
swamp chestnut oak	Quercus michauxii	NSL	Low	11.4	53.1	3.7	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	25
ailanthus	Ailanthus altissima	NSL	FIA	10	52.6	4.3	Unknown	Unknown	NA	Common	NNIS	NNIS			0	26
American hornbeam; muscley	Carpinus caroliniana	WSL	Low	26	49.1	1.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	27
eastern white pine	Pinus strobus	WDH	High	4.9	41.4	8.0	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	28
river birch	Betula nigra	NSL	Low	13	38.2	3.4	No change	Lg. inc.	Medium	Rare	Poor	Good			1	29
black walnut	Juglans nigra	WDH	Low	10.5	36.4	2.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	30
water oak	Quercus nigra	WDH	High	18.8	33.7	1.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	31
sweet birch	Betula lenta	NDH	High	6.9	31.6	3.7	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	32
post oak	Quercus stellata	WDH	High	12.1	31.1	2.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	33
swamp tupelo	Nyssa biflora	NDH	Medium	6.8	25.9	2.3	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	1	34
common persimmon	Diospyros virginiana	NSL	Low	10.8	24.5	1.9	Lg. dec.	Sm. inc.	High	Rare	Poor	Good			1	35
sycamore	Platanus occidentalis	NSL	Low	9.2	24.3	2.8	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	36
eastern redbud	Cercis canadensis	NSL	Low	6.6	22.4	2.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
American elm	Ulmus americana	WDH	Medium	11.5	21.6	1.5	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	38
pin oak	Quercus palustris	NSH	Low	5.4	21.0	4.1	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	39
hackberry	Celtis occidentalis	WDH	Medium	6.2	20.6	2.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	40
boxelder	Acer negundo	WSH	Low	3.2	20.5	4.3	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	1	41
shortleaf pine	Pinus echinata	WDH	High	9.5	18.3	1.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	42
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	8.6	18.1	2.3	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	43
bitternut hickory	Carya cordiformis	WSL	Low	7	17.9	2.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	44
sweetbay	Magnolia virginiana	NSL	Medium	10.2	16.9	1.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	45
American basswood	Tilia americana	WSL	Medium	1.8	15.0	3.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	46
sourwood	Oxydendrum arboreum	NDL	High	7.7	14.4	1.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	47



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bigtooth aspen	Populus grandidentata	NSL	Medium	9.1	14.2	1.7	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	48
water tupelo	Nyssa aquatica	NSH	Medium	0.1	14.2	5.2	No change	No change	Low	Rare	Very Poor	Very Poor			2	49
paulownia	Paulownia tomentosa	NSL	FIA	3.2	9.0	1.3	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	50
bald cypress	Taxodium distichum	NSH	Medium	1.3	6.0	4.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	51
striped maple	Acer pensylvanicum	NSL	Medium	3.5	5.9	1.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	52
slippery elm	Ulmus rubra	WSL	Low	3.4	5.8	1.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	53
eastern hemlock	Tsuga canadensis	NSH	High	1.4	5.5	3.1	No change	No change	Low	Rare	Very Poor	Very Poor			2	54
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	2.5	5.3	0.9	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	55
winged elm	Ulmus alata	WDL	Medium	3.2	4.3	0.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	56
shagbark hickory	Carya ovata	WSL	Medium	3	3.7	1.0	Sm. inc.	No change	Medium	Rare	Fair	Poor	Infill +	Infill +	2	57
sugar maple	Acer saccharum	WDH	High	2.2	3.3	1.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	58
pin cherry	Prunus pensylvanica	NSL	Low	0.9	3.0	3.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	59
serviceberry	Amelanchier spp.	NSL	Low	3	2.8	0.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	60
pawpaw	Asimina triloba	NSL	Low	2.8	2.7	1.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	61
eastern cottonwood	Populus deltoides	NSH	Low	0.5	2.7	6.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	62
red mulberry	Morus rubra	NSL	Low	2.7	2.6	0.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	63
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	1.4	2.5	2.2	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	64
wild plum	Prunus americana	NSLX	FIA	0	2.0	0.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	65
black ash	Fraxinus nigra	WSH	Medium	0.5	1.5	4.0	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	66
pecan	Carya illinoensis	NSH	Low	0.8	1.4	6.2	No change	Lg. inc.	Low	Rare	Very Poor	Fair		Infill +	2	67
honeylocust	Gleditsia triacanthos	NSH	Low	1.3	1.3	1.0	Lg. dec.	Sm. inc.	High	Rare	Poor	Good			2	68
American chestnut	Castanea dentata	NSLX	FIA	2	1.2	0.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	69
overcup oak	Quercus lyrata	NSL	Medium	0.9	1.1	1.5	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair		Infill +	2	70
redbay	Persea borbonia	NSL	Low	0.5	1.1	1.0	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	71
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0.3	1.0	1.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	72
cucumbertree	Magnolia acuminata	NSL	Low	0.9	1.0	1.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	73
northern catalpa	Catalpa speciosa	NSHX	FIA	0.5	0.8	2.2	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	74
black willow	Salix nigra	NSH	Low	0.5	0.8	2.0	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	75
butternut	Juglans cinerea	NSLX	FIA	0.3	0.6	1.2	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	76
sand hickory	Carya pallida	NSL	FIA	0.5	0.6	1.6	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	77
yellow birch	Betula alleghaniensis	NDL	High	0.9	0.6	0.7	No change	No change	Medium	Rare	Poor	Poor		Infill +	2	78
swamp white oak	Quercus bicolor	NSL	Low	0.5	0.5	1.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	79
pitch pine	Pinus rigida	NSH	High	0.9	0.5	0.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	80
Osage-orange	Maclura pomifera	NDH	Medium	0.5	0.5	1.3	Very Lg. dec.	Lg. inc.	High	Rare	Lost	Good			2	81
pond pine	Pinus serotina	NSH	Medium	0.4	0.4	0.9	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	82
laurel oak	Quercus laurifolia	NDH	Medium	0.5	0.3	0.3	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	83
chokecherry	Prunus virginiana	NSLX	FIA	0.5	0.2	0.5	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	84
gray birch	Betula populifolia	NSL	Low	0.3	0.2	0.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	85
Shumard oak	Quercus shumardii	NSL	Low	0.5	0.2	0.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	86
southern magnolia	Magnolia grandiflora	NSL	Low	0.3	0.2	0.3	Sm. dec.	Lg. inc.	Medium	Rare	Very Poor	Good			2	87
white mulberry	Morus alba	NSL	FIA	0.2	0.1	0.1	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	88
blackjack oak	Quercus marilandica	NSL	Medium	0.2	0.0	0.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	89
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	90
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	91
pond cypress	Taxodium ascendens	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	92
northern white-cedar	Thuja occidentalis	WSH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	93
florida maple	Acer barbatum	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	94



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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
silver maple	<i>Acer saccharinum</i>	NSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	95
mountain maple	<i>Acer spicatum</i>	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	96
yellow buckeye	<i>Aesculus flava</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +		3	97
cittamwood/gum bumelia	<i>Sideroxylon lanuginosum ssp.</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	98
water hickory	<i>Carya aquatica</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	99
shellbark hickory	<i>Carya laciniosa</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	100
black hickory	<i>Carya texana</i>	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	101
sugarberry	<i>Celtis laevigata</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	102
loblolly-bay	<i>Gordonia lasianthus</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	103
silverbell	<i>Halesia spp.</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	104
bigleaf magnolia	<i>Magnolia macrophylla</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	105
water elm	<i>Planera aquatica</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	106
quaking aspen	<i>Populus tremuloides</i>	WDH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	107
shingle oak	<i>Quercus imbricaria</i>	NDH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	108
turkey oak	<i>Quercus laevis</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	109
Nuttall oak	<i>Quercus texana</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	110
live oak	<i>Quercus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	111
bluejack oak	<i>Quercus incana</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	112
cedar elm	<i>Ulmus crassifolia</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	113