

# HUC 020503 Lower Susquehanna

## 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	23,865	9,214.3	468

### 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	25	28	Increase	22	29	Very Good	7	6	Likely	1	1
Hickory	4			Medium	39	62	No Change	10	7	Good	15	25	Infill	14	13
Maple	6	Abundant	5	Low	40	20	Decrease	34	30	Fair	8	4	Migrate	12	14
Oak	12	Common	19	FIA	12		New	26	28	Poor	14	9		27	28
Pine	6	Rare	54				Unknown	24	22	Very Poor	20	18			
Other	47	Absent	37							FIA Only	6	6			
	<b>78</b>		<b>115</b>		<b>116</b>	<b>110</b>		<b>116</b>	<b>116</b>	Unknown	12	10			
											<b>82</b>	<b>78</b>			

### Potential Changes in Climate Variables

#### Temperature (°F)

	Scenario	2009	2039	2069	2099	
Annual Average	CCSM45	45.9	47.3	49.0	49.2	
	CCSM85	45.9	47.6	49.5	51.9	
	GFDL45	45.9	48.3	50.4	51.3	
	GFDL85	45.9	48.5	51.3	54.5	
	HAD45	45.9	48.0	50.6	51.8	
	HAD85	45.9	48.1	51.4	55.1	
Growing Season (May—Sep)	CCSM45	58.2	59.7	61.2	61.6	
	CCSM85	58.2	59.9	61.9	64.9	
	GFDL45	58.2	60.9	63.6	64.8	
	GFDL85	58.2	61.6	64.7	68.3	
	HAD45	58.2	60.7	63.0	64.6	
	HAD85	58.2	60.4	64.3	68.5	
Coldest Month (Average)	CCSM45	27.2	28.6	29.9	30.2	
	CCSM85	27.2	29.0	30.0	31.4	
	GFDL45	27.2	29.7	30.4	30.8	
	GFDL85	27.2	29.6	30.6	31.9	
	HAD45	27.2	28.5	30.4	30.5	
	HAD85	27.2	29.0	30.5	32.3	
Warmest Month (Average)	CCSM45	62.7	64.4	65.2	65.5	
	CCSM85	62.7	64.6	66.0	67.5	
	GFDL45	62.7	65.0	66.8	67.8	
	GFDL85	62.7	66.3	68.1	70.5	
	HAD45	62.7	65.5	67.0	68.1	
	HAD85	62.7	65.7	68.1	71.0	

#### Precipitation (in)

	Scenario	2009	2039	2069	2099	
Annual Total	CCSM45	32.1	34.1	34.3	36.6	
	CCSM85	32.1	34.2	35.5	38.2	
	GFDL45	32.1	35.6	37.4	37.2	
	GFDL85	32.1	33.1	37.4	38.4	
	HAD45	32.1	33.8	34.4	34.0	
	HAD85	32.1	35.4	32.9	35.4	
Growing Season (May—Sep)	CCSM45	14.7	16.3	16.4	17.2	
	CCSM85	14.7	16.0	16.5	17.3	
	GFDL45	14.7	15.4	15.6	15.8	
	GFDL85	14.7	14.1	15.4	15.4	
	HAD45	14.7	15.5	14.2	14.2	
	HAD85	14.7	15.5	13.7	14.2	

**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
red maple	Acer rubrum	WDH	High	83.8	1232.9	12.3	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	1
chestnut oak	Quercus prinus	NDH	High	71.5	1083.9	14.2	No change	Sm. dec.	High	Abundant	Very Good	Good			1	2
northern red oak	Quercus rubra	WDH	Medium	73.3	740.2	9.1	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	3
sweet birch	Betula lenta	NDH	High	64	593.1	8.7	Lg. dec.	Lg. dec.	Low	Abundant	Poor	Poor			0	4
black cherry	Prunus serotina	WDL	Medium	61.7	532.4	7.7	Sm. dec.	Sm. dec.	Low	Abundant	Fair	Fair			0	5
white oak	Quercus alba	WDH	Medium	53.5	336.4	5.8	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	6
black oak	Quercus velutina	WDH	High	55.5	296.5	5.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	7
blackgum	Nyssa sylvatica	WDL	Medium	57.2	288.3	4.6	No change	No change	High	Common	Good	Good			1	8
white ash	Fraxinus americana	WDL	Medium	49.2	281.6	5.5	No change	No change	Low	Common	Poor	Poor			0	9
yellow-poplar	Liriodendron tulipifera	WDH	High	45.8	275.1	8.1	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	10
sugar maple	Acer saccharum	WDH	High	26.6	272.3	8.1	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	11
eastern white pine	Pinus strobus	WDH	High	33.2	224.0	5.3	Lg. dec.	Lg. dec.	Low	Common	Very Poor	Very Poor			0	12
Virginia pine	Pinus virginiana	NDH	High	12.1	170.1	9.1	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	13
eastern hemlock	Tsuga canadensis	NSH	High	25.2	160.5	5.6	Lg. dec.	Lg. dec.	Low	Common	Very Poor	Very Poor			0	14
black locust	Robinia pseudoacacia	NDH	Low	32.6	157.1	5.4	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	15
pignut hickory	Carya glabra	WDL	Medium	45.1	146.4	3.7	Lg. inc.	Sm. inc.	Medium	Common	Very Good	Good			1	16
sassafras	Sassafras albidum	WSL	Low	50.1	140.3	2.9	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	17
scarlet oak	Quercus coccinea	WDL	Medium	34.1	137.1	3.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	18
black walnut	Juglans nigra	WDH	Low	24.5	114.2	5.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	19
mockernut hickory	Carya alba	WDL	Medium	27.7	100.7	3.9	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	20
pitch pine	Pinus rigida	NSH	High	11.3	84.0	4.9	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	21
shagbark hickory	Carya ovata	WSL	Medium	23.5	79.9	3.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	22
American basswood	Tilia americana	WSL	Medium	17.7	68.0	4.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	23
American beech	Fagus grandifolia	WDH	High	22.6	56.8	3.3	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	24
American elm	Ulmus americana	WDH	Medium	18.5	47.5	3.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	25
ailanthus	Ailanthus altissima	NSL	FIA	21.5	47.0	4.2	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	26
bitternut hickory	Carya cordiformis	WSL	Low	16.9	41.9	4.2	No change	Lg. inc.	High	Rare	Fair	Good			1	27
green ash	Fraxinus pennsylvanica	WSH	Low	3.8	40.9	11.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	28
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	19.2	37.6	2.1	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	29
bigtooth aspen	Populus grandidentata	NSL	Medium	8.4	37.2	2.8	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	30
striped maple	Acer pensylvanicum	NSL	Medium	15.9	32.9	1.7	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	31
silver maple	Acer saccharinum	NSH	Low	4.8	32.5	16.1	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	2	32
hackberry	Celtis occidentalis	WDH	Medium	12.7	30.6	4.7	Sm. dec.	Sm. inc.	High	Rare	Poor	Good	Infill +	Infill ++	1	33
pin oak	Quercus palustris	NSH	Low	2.8	29.2	4.5	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	34
slippery elm	Ulmus rubra	WSL	Low	7.1	28.5	3.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	35
serviceberry	Amelanchier spp.	NSL	Low	16.6	28.0	1.3	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	36
boxelder	Acer negundo	WSH	Low	12.5	22.0	3.7	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	37
cucumbertree	Magnolia acuminata	NSL	Low	7	21.5	2.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	38
sycamore	Platanus occidentalis	NSL	Low	2.2	19.9	7.4	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	2	39
swamp white oak	Quercus bicolor	NSL	Low	3.3	16.7	8.0	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	40
quaking aspen	Populus tremuloides	WDH	High	4.6	15.4	1.6	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	41
yellow birch	Betula alleghaniensis	NDL	High	3.6	14.5	2.6	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	42
gray birch	Betula populifolia	NSL	Low	1.1	14.2	3.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	43
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	4.8	13.8	2.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	44
eastern redcedar	Juniperus virginiana	WDH	Medium	7.3	13.7	4.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	45
Norway maple	Acer platanoides	NSL	FIA	8	9.9	3.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	46
pin cherry	Prunus pensylvanica	NSL	Low	4.3	9.2	1.8	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	47

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Scots pine	Pinus sylvestris	NSH	FIA	2.9	8.7	2.2	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	48
eastern redbud	Cercis canadensis	NSL	Low	6.2	8.2	1.7	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	49
Norway spruce	Picea abies	NSH	FIA	2.4	8.2	4.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	50
flowering dogwood	Cornus florida	WDL	Medium	11.2	8.2	0.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	51
black willow	Salix nigra	NSH	Low	0.1	8.1	1.2	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	52
sweetgum	Liquidambar styraciflua	WDH	High	0.1	7.3	2.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	53
paper birch	Betula papyrifera	WDH	High	0.4	6.9	4.7	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	54
Table Mountain pine	Pinus pungens	NSL	Low	2.5	6.5	2.5	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor		Infill +	2	55
common persimmon	Diospyros virginiana	NSL	Low	0.2	6.0	2.6	No change	Lg. inc.	High	Rare	Fair	Good	Infill +		2	56
red pine	Pinus resinosa	NSH	Medium	1.7	5.0	1.4	Very Lg. dec.	Very Lg. dec.	Low	Rare	Lost	Lost			0	57
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	1.7	4.7	1.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	58
white spruce	Picea glauca	NSL	Medium	2.1	4.5	5.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	59
butternut	Juglans cinerea	NSLX	FIA	0.5	3.7	2.6	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	60
tamarack (native)	Larix laricina	NSH	High	0.6	3.4	3.8	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	61
red mulberry	Morus rubra	NSL	Low	1.7	2.9	3.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	62
shingle oak	Quercus imbricaria	NDH	Medium	0	2.5	0.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	63
chokecherry	Prunus virginiana	NSLX	FIA	0.5	2.5	2.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	64
bur oak	Quercus macrocarpa	NDH	Medium	0.4	2.0	4.7	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	65
honeylocust	Gleditsia triacanthos	NSH	Low	0.8	1.9	2.2	Sm. dec.	Sm. inc.	High	Rare	Poor	Good			2	66
Osage-orange	Maclura pomifera	NDH	Medium	0.4	1.7	1.6	Sm. dec.	Sm. inc.	High	Rare	Poor	Good			2	67
paulownia	Paulownia tomentosa	NSL	FIA	2.1	1.6	1.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	68
pawpaw	Asimina triloba	NSL	Low	2.1	1.4	0.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	69
northern catalpa	Catalpa speciosa	NSHX	FIA	1.7	0.6	5.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	70
American chestnut	Castanea dentata	NSLX	FIA	2.9	0.6	0.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	71
balsam poplar	Populus balsamifera	NSH	Medium	0.1	0.5	0.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	72
American holly	Ilex opaca	NSL	Medium	0	0.4	0.1	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	73
rock elm	Ulmus thomasii	NSLX	FIA	1.7	0.4	4.0	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	74
black ash	Fraxinus nigra	WSH	Medium	0.4	0.4	0.9	Lg. dec.	Very Lg. dec.	Low	Rare	Very Poor	Lost			0	75
white mulberry	Morus alba	NSL	FIA	2.1	0.3	0.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	76
northern pin oak	Quercus ellipsoidalis	NSH	Medium	0.3	0.2	0.3	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	77
swamp chestnut oak	Quercus michauxii	NSL	Low	1.3	0.2	1.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	78
red spruce	Picea rubens	NDH	High	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	79
shortleaf pine	Pinus echinata	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	80
slash pine	Pinus elliotii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	81
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	82
loblolly pine	Pinus taeda	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	83
bald cypress	Taxodium distichum	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	84
northern white-cedar	Thuja occidentalis	WSH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	85
florida maple	Acer barbatum	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	86
black maple	Acer nigrum	NSH	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	87
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	88
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	Unknown	Unknown	Low	Modeled	Unknown	Unknown			0	89
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			0	90
water hickory	Carya aquatica	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	91
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	92
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	93
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			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
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	95
blue ash	Fraxinus quadrangulata	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	96
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	97
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	98
sweetbay	Magnolia virginiana	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	99
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	100
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0	0	0	Unknown	New Habitat	Low	Absent	Unknown	New Habitat			0	101
water tupelo	Nyssa aquatica	NSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	102
swamp tupelo	Nyssa biflora	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	103
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	104
redbay	Persea borbonia	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	105
southern red oak	Quercus falcata	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	106
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	107
laurel oak	Quercus laurifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	108
overcup oak	Quercus lyrata	NSL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	109
blackjack oak	Quercus marilandica	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	110
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	111
water oak	Quercus nigra	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	112
willow oak	Quercus phellos	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	113
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	114
bluejack oak	Quercus incana	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	115
winged elm	Ulmus alata	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	116