One x One Degree

Climate Change Atlas Tree Species

Current and Potential Future Habitat, Capability, and Migration

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

sq. km sq. mi FIA Plots Area of Region 10,421 4,023.6 188

Species Information

The columns below provide breif 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							Potential Change in Habitat Suitability			Capability to Cope or Persist				Migration Potential			
Ash	3			N	1odel			Scenario	Scenario		Scenario	Scenario		SHIFT	SHIFT			
Hickory	1	Abu	ndance	R	eliability	Adaptability		RCP45	RCP85		RCP45	RCP85		RCP45	RCP85			
Maple	0	Abundant	4	High	4	7	Increase	2	3	Very Good	1	1	Likely	0	0			
Oak	7	Common	5	Medium	10	14	No Change	7	7	Good	5	6	Infill	2	2			
Pine	0	Rare	14	Low	10	4	Decrease	12	11	Fair	2	1	Migrate	0	0			
Other	12	Absent	3	FIA	2		New	0	0	Poor	4	5		2	2			
-	23		26		26	25	Unknown	5	5	Very Poor	8	7						
							-	26	26	FIA Only	2	2						

Potential Changes in Climate Variables

Temperatu	ıre (°F)				
	Scenario	2009	2039	2069	2099
Annual	CCSM45	64.2	65.6	67.2	67.9
Average	CCSM85	64.2	66.2	68.2	70.7
	GFDL45	64.2	68.4	68.5	70.2
	GFDL85	64.2	67.1	70.1	74.0
	HAD45	64.2	66.4	68.9	69.8
	HAD85	64.2	66.8	70.6	73.7
Growing	CCSM45	78.5	79.8	81.4	82.2
Season	CCSM85	78.5	80.8	82.5	85.6
May—Sep	GFDL45	78.5	83.8	83.7	86.5
	GFDL85	78.5	82.7	86.2	91.2
	HAD45	78.5	80.7	82.7	83.3
	HAD85	78.5	81.2	85.3	87.9
Coldest	CCSM45	42.7	45.0	45.6	46.3
Month	CCSM85	42.7	44.8	45.7	47.1
Average	GFDL45	42.7	46.0	46.0	46.2
	GFDL85	42.7	43.5	44.7	44.9 🛶 🔶
	HAD45	42.7	43.2	45.2	45.5
	HAD85	42.7	46.0	47.7	49.2
Warmest	CCSM45	84.1	85.2	86.2	86.4
Month	CCSM85	84.1	86.1	86.7	88.5 🛶 🔶
Average	GFDL45	84.1	89.5	89.7	91.7
	GFDL85	84.1	89.8	91.5	95.5
	HAD45	84.1	86.2	87.3	87.6
	HAD85	84.1	87.0	89.1	90.1

Precipitat	ion (in)				
	Scenario	2009	2039	2069	2099
Annual	CCSM45	30.8	32.0	31.1	29.9
Total	CCSM85	30.8	29.7	32.9	32.0 +++++
	GFDL45	30.8	30.6	35.8	29.1 ++++++++++++++++++++++++++++++++++++
	GFDL85	30.8	30.2	32.6	30.5 ++++
	HAD45	30.8	31.4	30.7	32.2 ++++
	HAD85	30.8	31.1	27.9	31.1 ++++++
Growing	CCSM45	15.3	16.7	14.7	14.9 +++++
Season	CCSM85	15.3	15.5	15.9	14.7 ++++
May—Sep	GFDL45	15.3	15.6	18.3	14.7 ++++++++++++++++++++++++++++++++++++
	GFDL85	15.3	15.7	16.4	15.3 🔶 🔶 🔶
	HAD45	15.3	15.2	15.1	16.1 ++++
	HAD85	15.3	14.8	12.5	14.6 ++++++++++++++++++++++++++++++++++++

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.

Unknown

3

25

3

25

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Current and Potential Future Habitat, Capability, and Migration

Scientific Name	Range	MD	~~											
	nange	IVIK	%Cell	FIAsum	FIAiv ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO N	1
Quercus stellata	WDH	High	68.4	1670.7	28.9 Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	1
Juniperus ashei	NDH	High	57.8	1502.7	32.6 No change	No change	Medium	Abundant	Good	Good			0	2
Quercus virginiana	NDH	High	67.5	744.2	17.7 Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	3
Ulmus crassifolia	NDH	Medium	61.2	574.8	13.1 Sm. inc.	Sm. inc.	Low	Abundant	Good	Good			1	4
Quercus marilandica	NSL	Medium	36.8	196.9	8.5 No change	No change	High	Common	Good	Good			1	5
Sideroxylon lanuginosum ssp	. NSL	Low	25.6	174.7	5.9 No change	No change	High	Common	Good	Good			1	6
Carya illinoinensis	NSH	Low	14.6	83.0	3.7 Lg. dec.	Lg. dec.	Low	Common	Very Poor	Very Poor			0	7
Celtis laevigata	NDH	Medium	22.4	59.9	2.3 No change	Sm. inc.	Medium	Common	Fair	Good			1	8
Fraxinus texensis	NDH	FIA	18.2	52.1	4.6 Unknown	Unknown	NA	Common	FIA Only	FIA Only			0	9
Ulmus americana	WDH	Medium	11.9	22.4	2.0 Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0 3	10
Salix nigra	NSH	Low	9.1	19.2	4.9 No change	No change	Low	Rare	Very Poor	Very Poor			0 3	11
Morus rubra	NSL	Low	2.9	13.9	4.0 Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0 3	12
Populus deltoides	NSH	Low	4.8	7.6	5.6 No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2 3	13
Juniperus virginiana	WDH	Medium	3.3	7.2	1.8 Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0 3	14
Celtis occidentalis	WDH	Medium	3.2	6.7	1.6 No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2 :	15
Maclura pomifera	NDH	Medium	4.2	3.7	2.9 Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0 3	16
Fraxinus americana	WDL	Medium	1.1	3.3	0.9 Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0 3	17
Cercis canadensis	NSL	Low	1	1.7	1.8 Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0 3	18
Quercus velutina	WDH	High	1	1.5	1.6 Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0 3	19
Quercus macrocarpa	NDH	Medium	1	1.3	1.4 Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0 2	20
Quercus sinuata var. sinuata	NSL	FIA	1	1.3	1.3 Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0 2	21
Fraxinus pennsylvanica	WSH	Low	1	0.6	0.6 Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0 2	22
Quercus shumardii	NSL	Low	3.8	0.2	0.8 Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0 2	23
Asimina triloba	NSL	Low	0	0	0 Unknown	Unknown	Medium	Absent	Unknown	Unknown			0 2	24
Carya laciniosa	NSL	Low	0	0	0 Unknown	Unknown	Medium	Absent	Unknown	Unknown			0 2	25
Cornus florida	WDL	Medium	0	0	0 Unknown	Unknown	Medium	Absent	Unknown	Unknown			0 2	26
	Juniperus ashei Quercus virginiana Ulmus crassifolia Quercus marilandica Sideroxylon lanuginosum ssp Carya illinoinensis Celtis laevigata Fraxinus texensis Ulmus americana Salix nigra Morus rubra Populus deltoides Juniperus virginiana Celtis occidentalis Maclura pomifera Fraxinus americana Cercis canadensis Quercus velutina Quercus velutina Quercus sinuata var. sinuata Fraxinus pennsylvanica Quercus shumardii Asimina triloba	Juniperus asheiNDHQuercus virginianaNDHUlmus crassifoliaNDHQuercus marilandicaNSLSideroxylon lanuginosum ssp. NSLSideroxylon lanuginosum ssp. NSHCarya illinoinensisNDHCeltis laevigataNDHUlmus americanaWDHSalix nigraNSHMorus rubraNSHJuniperus virginianaWDHCeltis occidentalisWDHGercis canadensisNSLQuercus velutinaWDHQuercus sinuata var. sinuataNSLQuercus shumardiiNSLGuercus shumardiiNSLFraxinus pennsylvanicaNSLSaimina trilobaNSLNasimina trilobaNSL<	Juniperus asheiNDHHighQuercus virginianaNDHHighUlmus crassifoliaNDHMediumQuercus marilandicaNSLMediumSideroxylon lanuginosum ssp. NSLLowCarya illinoinensisNSHLowCeltis laevigataNDHMediumYumus americanaWDHMediumSalix nigraNSHLowMorus rubraNSLLowJuniperus virginianaWDHMediumGeltis occidentalisWDHMediumFraxinus americanaWDHMediumGalur nigraNSHLowJuniperus virginianaWDHMediumGeltis occidentalisWDHMediumGravinus americanaWDLMediumGuercus velutinaWDHHighQuercus sinuata var. sinuataNSLLowQuercus shumardiiNSLLowAsimina trilobaNSLLowAsimina trilobaNSLLow	Juniperus asheiNDHHigh57.8Juniperus asheiNDHHigh67.5Ulmus crassifoliaNDHMedium61.2Quercus marilandicaNSLMedium36.8Sideroxylon lanuginosum ssp. NSLLow25.6Carya illinoinensisNSHLow14.6Celtis laevigataNDHMedium22.4Fraxinus texensisNDHFIA18.2Ulmus americanaWDHMedium11.9Salix nigraNSHLow9.1Morus rubraNSLLow9.1Morus rubraNSLLow4.8Juniperus virginianaWDHMedium3.3Celtis occidentalisWDHMedium3.2Maclura pomiferaNDHMedium4.2Fraxinus americanaWDLMedium1.1Quercus velutinaWDHHigh1.1Quercus sinuata var. sinuataNSLLow1.1Quercus shumardiiNSLLow1.1Quercus shumardiiNSLLow3.8Asimina trilobaNSLLow0.0Carya laciniosaNSLLow0.0	Juniperus asheiNDHHigh57.81502.7Quercus virginianaNDHHigh67.5744.2Ulmus crassifoliaNDHMedium61.2574.8Quercus marilandicaNSLMedium36.8196.9Sideroxylon lanuginosum ssp. 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