

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

Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCI45	ChngCI85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
ashe juniper	Juniperus ashei	NDH	High	58.2	1827.79	43.41	No change	No change	Medium	Abundant	Good	Good			0	1
live oak	Quercus virginiana	NDH	High	58.4	706.48	18.49	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	2
post oak	Quercus stellata	WDH	High	29.9	550.59	24.69	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	3
cedar elm	Ulmus crassifolia	NDH	Medium	63.7	399.84	16.28	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	4
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp	NSL	Low	24.5	123.4	10.5	Sm. dec.	Lg. dec.	High	Common	Fair	Fair			1	5
blackjack oak	Quercus marilandica	NSL	Medium	19.3	58.44	6.04	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	6
hackberry	Celtis occidentalis	WDH	Medium	16.9	56.5	9.15	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	7
sugarberry	Celtis laevigata	NDH	Medium	25.2	41.35	3.61	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	8
red mulberry	Morus rubra	NSL	Low	1.7	32.65	10.26	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	9
pecan	Carya illinoensis	NSH	Low	12.5	32.48	8.02	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor			1	10
American elm	Ulmus americana	WDH	Medium	10	25.66	5.62	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	11
durand oak	Quercus sinuata var. sinuata	NSL	FIA	5.1	19.15	8.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	12
sycamore	Platanus occidentalis	NSL	Low	2.5	18.45	18.62	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	13
green ash	Fraxinus pennsylvanica	WSH	Low	9.7	17.79	7.64	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	14
water oak	Quercus nigra	WDH	High	2.7	15.59	5.99	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	15
black walnut	Juglans nigra	WDH	Low	2.9	12.88	7.75	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	16
white ash	Fraxinus americana	WDL	Medium	0.5	10.26	7.08	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	17
eastern redcedar	Juniperus virginiana	WDH	Medium	7.3	10.02	6.04	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	18
black hickory	Carya texana	NDL	High	1.3	8.64	5.68	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	19
Texas ash	Fraxinus texensis	NDH	FIA	7.2	7.85	2.18	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	20
black willow	Salix nigra	NSH	Low	6.3	6.96	11.61	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			0	21
Shumard oak	Quercus shumardii	NSL	Low	4.6	6.37	2.2	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	22
bur oak	Quercus macrocarpa	NDH	Medium	4.6	3.21	3.53	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	23
slippery elm	Ulmus rubra	WSL	Low	2.2	2.19	1.61	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	24
winged elm	Ulmus alata	WDL	Medium	0.2	1.89	0.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	25
black cherry	Prunus serotina	WDL	Medium	0.5	0.94	1.85	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	26
eastern cottonwood	Populus deltoides	NSH	Low	2	0.57	4.49	No change	Sm. dec.	Medium	Rare	Poor	Very Poor			0	27
black oak	Quercus velutina	WDH	High	1.9	0.25	1.94	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	28
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	2	0.22	1.77	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	29
eastern redbud	Cercis canadensis	NSL	Low	2.2	0.19	0.43	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	30
Osage-orange	Maclura pomifera	NDH	Medium	1.9	0.14	1.07	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	31
flowering dogwood	Cornus florida	WDL	Medium	2	0.1	0.17	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	32
bitternut hickory	Carya cordiformis	WSL	Low	0.1	0.05	0.02	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	33
honeylocust	Gleditsia triacanthos	NSH	Low	1.9	0.05	0.35	No change	Sm. inc.	High	Rare	Fair	Good	Infill +		2	34
loblolly pine	Pinus taeda	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	35
boxelder	Acer negundo	WSH	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	36
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	37
sassafras	Sassafras albidum	WSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	38
American basswood	Tilia americana	WSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	39