

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
loblolly pine	Pinus taeda	WDH	High	73.7	3040.42	32.05	No change	No change	Medium	Abundant	Good	Good			1	1
sweetgum	Liquidambar styraciflua	WDH	High	80.3	1138.44	11.61	No change	No change	Medium	Abundant	Good	Good			1	2
post oak	Quercus stellata	WDH	High	78.4	1026.57	11.24	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good			1	3
winged elm	Ulmus alata	WDL	Medium	83.1	755.58	6.3	No change	No change	Medium	Abundant	Good	Good			1	4
shortleaf pine	Pinus echinata	WDH	High	55.5	642.61	8.98	No change	No change	Medium	Abundant	Good	Good			1	5
water oak	Quercus nigra	WDH	High	76.5	540.49	5.37	Lg. inc.	Lg. inc.	Medium	Abundant	Very Good	Very Good			1	6
southern red oak	Quercus falcata	WDL	Medium	72.6	523.51	5.53	No change	No change	High	Abundant	Very Good	Very Good			1	7
sugarberry	Celtis laevigata	NDH	Medium	42.9	351.51	6.59	No change	No change	Medium	Common	Fair	Fair			1	8
eastern redcedar	Juniperus virginiana	WDH	Medium	36.3	208.29	4.55	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	9
willow oak	Quercus phellos	NSL	Low	32.6	193.65	6.03	No change	No change	Medium	Common	Fair	Fair			1	10
green ash	Fraxinus pennsylvanica	WSH	Low	26.9	182.4	6.68	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	11
American elm	Ulmus americana	WDH	Medium	29.3	125.94	3.41	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	12
blackjack oak	Quercus marilandica	NSL	Medium	28.2	123.85	3.3	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	13
black hickory	Carya texana	NDL	High	35.2	122.07	2.72	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	14
pecan	Carya illinoensis	NSH	Low	12.8	122.05	10.02	Lg. dec.	Sm. dec.	Low	Common	Very Poor	Poor			0	15
cedar elm	Ulmus crassifolia	NDH	Medium	18.9	110.77	8.25	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	16
blackgum	Nyssa sylvatica	WDL	Medium	37.4	97.51	2.2	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	17
white ash	Fraxinus americana	WDL	Medium	27	84.36	2.69	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor			0	18
cherrybark oak; swamp red oak	Quercus pagoda	NSL	Medium	22.5	77.12	2.38	No change	No change	Medium	Common	Fair	Good			1	19
mockernut hickory	Carya alba	WDL	Medium	23.9	55.09	1.81	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	20
black willow	Salix nigra	NSH	Low	7.9	49.92	4.21	No change	No change	Low	Rare	Very Poor	Very Poor			0	21
eastern hophornbeam; ironwood	Ostrya virginiana	WSL	Low	19.9	48.96	1.95	No change	No change	High	Rare	Fair	Fair			1	22
sassafras	Sassafras albidum	WSL	Low	27.4	45.63	1.49	No change	No change	Medium	Rare	Poor	Poor			1	23
bluejack oak	Quercus incana	NSL	Low	10.2	45.36	4.72	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	24
American hornbeam; musclewood	Carpinus caroliniana	WSL	Low	15.4	45.04	2.51	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	25
honeylocust	Gleditsia triacanthos	NSH	Low	16.8	43.75	3.24	Lg. dec.	Sm. dec.	High	Rare	Poor	Poor			1	26
red maple	Acer rubrum	WDH	High	16.7	39.14	2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	27
white oak	Quercus alba	WDH	Medium	12.6	37.1	1.53	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	28
overcup oak	Quercus lyrata	NSL	Medium	3.4	36.53	8.21	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	29
river birch	Betula nigra	NSL	Low	13.5	34.87	2.39	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	30
black walnut	Juglans nigra	WDH	Low	2.8	32.94	11.57	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	31
flowering dogwood	Cornus florida	WDL	Medium	21.4	30.19	0.72	No change	No change	Medium	Rare	Poor	Poor			1	32
common persimmon	Diospyros virginiana	NSL	Low	12.4	28.23	1.69	Lg. dec.	Sm. dec.	High	Rare	Poor	Poor			1	33
slash pine	Pinus elliotii	NDH	High	1.9	26.48	13.95	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	34
eastern redbud	Cercis canadensis	NSL	Low	13.1	25.7	1.63	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	35
red mulberry	Morus rubra	NSL	Low	11.5	20.91	1.51	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	36
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp	NSL	Low	7.4	20.37	2.48	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	37
boxelder	Acer negundo	WSH	Low	3.8	19.42	5.12	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			1	38
American holly	Ilex opaca	NSL	Medium	16.1	18.58	0.81	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	39
Osage-orange	Maclura pomifera	NDH	Medium	1.8	12.12	6.3	Sm. dec.	No change	High	Rare	Poor	Fair		Infill +	2	40
black cherry	Prunus serotina	WDL	Medium	7.3	11.53	0.95	No change	No change	Low	Rare	Very Poor	Very Poor			0	41
water elm	Planera aquatica	NSL	Low	6.6	11.45	3.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	42
shagbark hickory	Carya ovata	WSL	Medium	2.7	11.27	3.84	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	43
florida maple	Acer barbatum	NSL	Low	2.6	10.24	3.02	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	44
water hickory	Carya aquatica	NSL	Medium	6.3	7.67	2.03	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	45
sycamore	Platanus occidentalis	NSL	Low	2.8	7.43	2.61	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	46
eastern cottonwood	Populus deltoides	NSH	Low	0.9	5.13	5.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	47
wild plum	Prunus americana	NSLX	FIA	0.2	5.03	1.15	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	48
American basswood	Tilia americana	WSL	Medium	6.6	4.87	1.71	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	49
slippery elm	Ulmus rubra	WSL	Low	2.9	3.82	0.57	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	50
bitternut hickory	Carya cordiformis	WSL	Low	1.9	3.29	1.73	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	51
swamp tupelo	Nyssa biflora	NDH	Medium	0.9	3.13	3.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	52
Shumard oak	Quercus shumardii	NSL	Low	0.8	2.42	2.21	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	53

**One x One Degree**  
 Climate Change Atlas Tree Species  
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sweetbay	Magnolia virginiana	NSL	Medium	1.1	1.13	0.45	Very Lg. dec.	No change	Medium	Rare	Lost	Poor			0	54
black oak	Quercus velutina	WDH	High	0.9	1.11	1.17	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	55
laurel oak	Quercus laurifolia	NDH	Medium	1	0.97	0.23	Very Lg. dec.	No change	Medium	Rare	Lost	Poor			0	56
shellbark hickory	Carya laciniosa	NSL	Low	0.9	0.64	0.67	No change	No change	Medium	Rare	Poor	Poor			0	57
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	58
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	59
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	60
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	61
American beech	Fagus grandifolia	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +		3	62
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	63
redbay	Persea borbonia	NSL	Low	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	64
northern red oak	Quercus rubra	WDH	Medium	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	65
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	66
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	67