

One x One Degree
Climate Change Atlas Tree Species

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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
bur oak	Quercus macrocarpa	NDH	Medium	37.3	189.5	21.5	Sm. dec.	Lg. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	1
red mulberry	Morus rubra	NSL	Low	37.7	106.6	14.4	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	2
hackberry	Celtis occidentalis	WDH	Medium	51.6	81.1	11.9	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	2	3
black walnut	Juglans nigra	WDH	Low	31.6	68.5	9.8	Sm. inc.	No change	Medium	Common	Good	Fair	Infill ++	Infill +	2	4
boxelder	Acer negundo	WSH	Low	42.8	64.5	15.7	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	5
American elm	Ulmus americana	WDH	Medium	51.9	56.3	6.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	2	6
eastern cottonwood	Populus deltoides	NSH	Low	19.8	51.2	12.3	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	2	7
slippery elm	Ulmus rubra	WSL	Low	39.7	45.5	5.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	8
eastern redcedar	Juniperus virginiana	WDH	Medium	16.6	44.1	7.3	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	9
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	19.3	41.7	7.1	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	10
black willow	Salix nigra	NSH	Low	16.5	41.2	22.6	Lg. dec.	No change	Low	Rare	Very Poor	Very Poor			2	11
white ash	Fraxinus americana	WDL	Medium	7	38.1	7.7	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	12
black cherry	Prunus serotina	WDL	Medium	10.9	37.8	19.0	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			2	13
green ash	Fraxinus pennsylvanica	WSH	Low	17.6	33.5	6.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	14
bitternut hickory	Carya cordiformis	WSL	Low	21.7	19.4	4.2	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	15
Osage-orange	Maclura pomifera	NDH	Medium	3.5	18.6	56.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	16
silver maple	Acer saccharinum	NSH	Low	2.3	14.7	29.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	17
northern red oak	Quercus rubra	WDH	Medium	9.7	9.2	4.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	18
Siberian elm	Ulmus pumila	NDH	FIA	5.5	8.3	3.7	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	19
black locust	Robinia pseudoacacia	NDH	Low	0.1	5.6	0.5	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	20
honeylocust	Gleditsia triacanthos	NSH	Low	5.8	3.9	5.8	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	21
American basswood	Tilia americana	WSL	Medium	2.3	3.8	7.5	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	22
eastern redbud	Cercis canadensis	NSL	Low	5.9	3.5	4.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	23
peachleaf willow	Salix amygdaloides	NSLX	FIA	7.2	2.8	3.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	24
chokecherry	Prunus virginiana	NSLX	FIA	3.6	2.3	7.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	25
shagbark hickory	Carya ovata	WSL	Medium	5.9	1.8	2.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair		Infill +	2	26
sycamore	Platanus occidentalis	NSL	Low	1.5	1.5	1.9	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	27
red pine	Pinus resinosa	NSH	Medium	1.5	1.0	1.3	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	28
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	4.3	0.8	2.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	29
sugar maple	Acer saccharum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	30
pignut hickory	Carya glabra	WDL	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	31
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate ++	3	32
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	33
flowering dogwood	Cornus florida	WDL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	34
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	35
shingle oak	Quercus imbricaria	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	36
blackjack oak	Quercus marilandica	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	37
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	38
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat		Migrate +	3	39
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate ++	3	40
black oak	Quercus velutina	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate +	3	41