

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
red mulberry	Morus rubra	NSL	Low	46.6	94.9	13.7	Sm. dec.	Lg. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	1
eastern cottonwood	Populus deltoides	NSH	Low	26.8	84.5	25.8	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	2
hackberry	Celtis occidentalis	WDH	Medium	37.5	68.3	12.2	No change	No change	High	Common	Good	Good			2	3
green ash	Fraxinus pennsylvanica	WSH	Low	33.4	67.8	13.6	No change	Sm. dec.	Medium	Common	Fair	Poor	Infill +	Infill +	2	4
American elm	Ulmus americana	WDH	Medium	30.3	50.3	6.5	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			2	5
bur oak	Quercus macrocarpa	NDH	Medium	12.6	47.4	10.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	6
eastern redcedar	Juniperus virginiana	WDH	Medium	19.2	44.6	12.1	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	7
boxelder	Acer negundo	WSH	Low	21.5	30.8	8.1	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	8
black willow	Salix nigra	NSH	Low	13.8	28.6	24.8	Lg. dec.	No change	Low	Rare	Very Poor	Very Poor			2	9
Siberian elm	Ulmus pumila	NDH	FIA	13.7	22.3	19.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	10
honeylocust	Gleditsia triacanthos	NSH	Low	12	22.1	18.6	Sm. inc.	Sm. inc.	High	Rare	Good	Good			2	11
white mulberry	Morus alba	NSL	FIA	4	21.1	73.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	12
slippery elm	Ulmus rubra	WSL	Low	16.3	12.6	4.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	13
black walnut	Juglans nigra	WDH	Low	7.2	12.1	2.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	14
black locust	Robinia pseudoacacia	NDH	Low	5.3	11.2	12.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	15
silver maple	Acer saccharinum	NSH	Low	9.4	10.7	8.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	16
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	8.4	10.6	3.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	17
white ash	Fraxinus americana	WDL	Medium	5.4	8.9	12.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	18
bitternut hickory	Carya cordiformis	WSL	Low	5	7.0	1.0	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	19
northern red oak	Quercus rubra	WDH	Medium	7.1	6.7	3.8	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	20
American basswood	Tilia americana	WSL	Medium	6.3	5.0	5.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	21
eastern redbud	Cercis canadensis	NSL	Low	0.7	1.9	1.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	22
sycamore	Platanus occidentalis	NSL	Low	0.1	1.5	0.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	23
red pine	Pinus resinosa	NSH	Medium	0.1	1.0	0.1	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	24
overcup oak	Quercus lyrata	NSL	Medium	4.3	0.9	3.3	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	25
shagbark hickory	Carya ovata	WSL	Medium	0.7	0.7	0.4	No change	No change	Medium	Rare	Poor	Poor		Infill +	2	26
sugar maple	Acer saccharum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	27
yellow birch	Betula alleghaniensis	NDL	High	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	28
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate ++	3	29
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	30
Osage-orange	Maclura pomifera	NDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	31
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	32
black cherry	Prunus serotina	WDL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate ++	3	33
blackjack oak	Quercus marilandica	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	34
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	35
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	36
black oak	Quercus velutina	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	37