



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
American elm	Ulmus americana	WDH	Medium	32.9	135.9	30.6	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	1
post oak	Quercus stellata	WDH	High	22.9	94.7	24.2	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	2
pecan	Carya illinoensis	NSH	Low	13.3	89.4	32.8	Lg. dec.	Sm. dec.	Low	Common	Very Poor	Poor		Infill +	2	3
sugarberry	Celtis laevigata	NDH	Medium	6.2	75.2	8.6	Lg. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	4
eastern redcedar	Juniperus virginiana	WDH	Medium	24.4	48.7	17.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			2	5
blackjack oak	Quercus marilandica	NSL	Medium	17.4	41.9	19.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	6
honeylocust	Gleditsia triacanthos	NSH	Low	8.2	27.8	36.7	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	7
ashe juniper	Juniperus ashei	NDH	High	3.8	24.5	96.9	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			0	8
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	10.1	18.1	3.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	9
black willow	Salix nigra	NSH	Low	8.3	16.8	12.5	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	10
eastern cottonwood	Populus deltoides	NSH	Low	1.9	6.2	3.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	11
hackberry	Celtis occidentalis	WDH	Medium	6.8	5.9	1.2	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	12
green ash	Fraxinus pennsylvanica	WSH	Low	5.6	5.1	5.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	13
cedar elm	Ulmus crassifolia	NDH	Medium	0.1	3.9	0.2	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	14
wild plum	Prunus americana	NSLX	FIA	1.5	3.5	1.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	15
black walnut	Juglans nigra	WDH	Low	7.1	2.1	1.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	16
sugar maple	Acer saccharum	WDH	High	3.9	2.0	8.0	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	17
boxelder	Acer negundo	WSH	Low	0.4	1.0	0.4	No change	No change	High	Rare	Fair	Fair			0	18
winged elm	Ulmus alata	WDL	Medium	0.4	1.0	0.4	No change	No change	Medium	Rare	Poor	Poor		Infill +	2	19
red mulberry	Morus rubra	NSL	Low	3.9	0.5	1.9	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	20
Texas ash	Fraxinus texensis	NDH	FIA	0.1	0.4	0.0	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	21
northern red oak	Quercus rubra	WDH	Medium	3.9	0.2	0.7	Lg. inc.	Sm. inc.	High	Rare	Good	Good			2	22
slippery elm	Ulmus rubra	WSL	Low	3.9	0.1	0.5	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			0	23
chinkapin oak	Quercus muehlenbergii	NSL	Medium	1.3	0.1	0.1	No change	No change	Medium	Rare	Poor	Poor			0	24
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	25
eastern redbud	Cercis canadensis	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat		Likely +	3	26
common persimmon	Diospyros virginiana	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	27
white ash	Fraxinus americana	WDL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	28
Osage-orange	Maclura pomifera	NDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	29
swamp chestnut oak	Quercus michauxii	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	30
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			3	31
black oak	Quercus velutina	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	32
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	33