

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	36.2	109.1	33.5	Sm. dec.	Lg. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	1
hackberry	Celtis occidentalis	WDH	Medium	45.9	59.7	13.3	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	2
American elm	Ulmus americana	WDH	Medium	47.2	52.2	10.6	No change	Sm. inc.	Medium	Common	Fair	Good	Infill +	Infill ++	2	3
boxelder	Acer negundo	WSH	Low	35.2	50.9	9.6	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	4
silver maple	Acer saccharinum	NSH	Low	21.4	50.9	26.9	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	5
slippery elm	Ulmus rubra	WSL	Low	39.9	27.7	6.1	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			2	6
black cherry	Prunus serotina	WDL	Medium	27.2	24.5	9.3	No change	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	7
green ash	Fraxinus pennsylvanica	WSH	Low	22.5	24.1	8.7	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	8
red mulberry	Morus rubra	NSL	Low	19.3	22.3	6.7	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	9
black maple	Acer nigrum	NSH	Low	8.8	18.3	33.5	Very Lg. dec.	Very Lg. dec.	High	Rare	Lost	Lost			0	10
honeylocust	Gleditsia triacanthos	NSH	Low	16.3	16.5	9.0	Sm. inc.	Sm. inc.	High	Rare	Good	Good			2	11
white oak	Quercus alba	WDH	Medium	7	15.6	9.5	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	12
black walnut	Juglans nigra	WDH	Low	15.9	15.4	7.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	13
black willow	Salix nigra	NSH	Low	8.8	8.5	15.6	Sm. dec.	No change	Low	Rare	Very Poor	Very Poor			2	14
American basswood	Tilia americana	WSL	Medium	14.8	7.8	6.8	Lg. inc.	Sm. inc.	Medium	Rare	Good	Fair		Infill +	2	15
sugar maple	Acer saccharum	WDH	High	4	7.3	6.5	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	16
bitternut hickory	Carya cordiformis	WSL	Low	16.7	7.3	6.3	No change	Sm. inc.	High	Rare	Fair	Good	Infill +		2	17
eastern redcedar	Juniperus virginiana	WDH	Medium	5.1	7.3	9.4	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	18
white ash	Fraxinus americana	WDL	Medium	10.6	6.6	7.6	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	2	19
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	7.9	5.3	4.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	20
eastern cottonwood	Populus deltoides	NSH	Low	2	4.6	7.6	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	21
northern red oak	Quercus rubra	WDH	Medium	4	4.6	4.0	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	22
Siberian elm	Ulmus pumila	NDH	FIA	12.2	3.2	3.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	23
black oak	Quercus velutina	WDH	High	7.4	2.6	4.4	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	24
shagbark hickory	Carya ovata	WSL	Medium	9.2	2.5	1.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	25
northern pin oak	Quercus ellipsoidalis	NSH	Medium	1.6	2.4	3.3	Lg. dec.	Very Lg. dec.	High	Rare	Poor	Lost			0	26
chokecherry	Prunus virginiana	NSLX	FIA	11.7	1.7	1.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	27
paper birch	Betula papyrifera	WDH	High	1.9	1.5	2.4	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	28
bigtooth aspen	Populus grandidentata	NSL	Medium	2.1	0.5	0.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	29
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	1.9	0.5	0.7	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	30
black ash	Fraxinus nigra	WSH	Medium	3.9	0.5	1.5	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	31
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate ++	3	32
eastern redbud	Cercis canadensis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	33
Osage-orange	Maclura pomifera	NDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	34
sycamore	Platanus occidentalis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	35
shingle oak	Quercus imbricaria	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	36
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate ++	3	37