

One x One Degree
Climate Change Atlas Tree Species

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Landscape Change Research Group
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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
black locust	Robinia pseudoacacia	NDH	Low	6.8	28.2	38.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	1
Siberian elm	Ulmus pumila	NDH	FIA	8.2	19.8	38.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	2
eastern cottonwood	Populus deltoides	NSH	Low	8.2	18.3	36.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	3
Osage-orange	Maclura pomifera	NDH	Medium	8.2	17.7	34.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	4
eastern redcedar	Juniperus virginiana	WDH	Medium	12.2	15.5	20.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	5
red mulberry	Morus rubra	NSL	Low	8.2	11.6	22.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	6
hackberry	Celtis occidentalis	WDH	Medium	12.2	10.6	13.8	No change	Sm. inc.	High	Rare	Fair	Good	Infill +		2	7
honeylocust	Gleditsia triacanthos	NSH	Low	12.2	9.9	12.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	8
black walnut	Juglans nigra	WDH	Low	4.1	7.6	29.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	9
American elm	Ulmus americana	WDH	Medium	4.1	6.7	26.1	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	10
northern catalpa	Catalpa speciosa	NSHX	FIA	4.1	4.5	17.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	11
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	12
sugar maple	Acer saccharum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	13
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	14
pawpaw	Asimina triloba	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	15
yellow birch	Betula alleghaniensis	NDL	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	16
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	17
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	18
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	19
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	20
green ash	Fraxinus pennsylvanica	WSH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	21
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	22
southern red oak	Quercus falcata	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	23
blackjack oak	Quercus marilandica	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	24
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	25
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	26
black willow	Salix nigra	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	27
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	28