Midewin

National Forests and Grasslands

Climate Change Atlas Tree Species

Current and Potential Future Habitat, Capability, and Migration

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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
eastern cottonwood	Populus deltoides	NSH	Low	19.2	40.81	34.08	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	1
silver maple	Acer saccharinum	NSH	Low	28.7	39.95	22.24	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	2
green ash	Fraxinus pennsylvanica	WSH	Low	43.1	38.84	14.41	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	3
black cherry	Prunus serotina	WDL	Medium	38.3	23.02	9.61	No change	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	4
bur oak	Quercus macrocarpa	NDH	Medium	24	20.99	14.02	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	5
white oak	Quercus alba	WDH	Medium	24	14.99	10.02	No change	Lg. dec.	High	Rare	Fair	Poor	Infill +	Infill +	2	6
eastern redcedar	Juniperus virginiana	WDH	Medium	4.8	14.97	50	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	7
black oak	Quercus velutina	WDH	High	19.2	11.37	9.49	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	8
swamp white oak	Quercus bicolor	NSL	Low	24	8.74	5.84	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			2	9
red mulberry	Morus rubra	NSL	Low	9.6	8.35	13.95	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	10
hackberry	Celtis occidentalis	WDH	Medium	14.4	8.05	8.96	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	11
boxelder	Acer negundo	WSH	Low	9.6	7.51	12.55	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	12
white ash	Fraxinus americana	WDL	Medium	19.2	6.78	5.66	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	13
black walnut	Juglans nigra	WDH	Low	19.2	6.14	5.13	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	14
American elm	Ulmus americana	WDH	Medium	19.2	5.62	4.68	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	15
black locust	Robinia pseudoacacia	NDH	Low	9.6	4.93	8.24	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	16
northern red oak	Quercus rubra	WDH	Medium	9.6	4.83	8.07	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	17
black willow	Salix nigra	NSH	Low	9.6	4.3	7.17	No change	No change	Low	Rare	Very Poor	Very Poor			2	18
honeylocust	Gleditsia triacanthos	NSH	Low	9.6	3.99	6.65	Sm. inc.	Sm. inc.	High	Rare	Good	Good			2	19
pin oak	Quercus palustris	NSH	Low	4.8	3.31	11.05	No change	No change	Low	Rare	Very Poor	Very Poor			2	20
American basswood	Tilia americana	WSL	Medium	4.8	2.6	8.68	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	21
white mulberry	Morus alba	NSL	FIA	14.4	2.04	2.27	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	22
shagbark hickory	Carya ovata	WSL	Medium	4.8	1.49	4.95	Sm. inc.	No change	Medium	Rare	Fair	Poor	Infill +	Infill +	2	23
balsam poplar	Populus balsamifera	NSH	Medium	4.8	1.37	4.55	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	24
sassafras	Sassafras albidum	WSL	Low	4.8	1.21	4.05	No change	Lg. dec.	Medium	Rare	Poor	Very Poor	Infill +		2	25
bigtooth aspen	Populus grandidentata	NSL	Medium	4.8	1.19	3.95	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	26
serviceberry	Amelanchier spp.	NSL	Low	4.8	1.02	3.4	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	27
sycamore	Platanus occidentalis	NSL	Low	4.8	1.01	3.35	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	28
black maple	Acer nigrum	NSH	Low	4.8	0.71	2.38	Very Lg. dec.	Very Lg. dec.	High	Rare	Lost	Lost			0	29
blue ash	Fraxinus quadrangulata	NSL	Low	4.8	0.55	1.85	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	30
slippery elm	Ulmus rubra	WSL	Low	4.8	0.25	0.85	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	31
red maple	Acer rubrum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	32
sugar maple	Acer saccharum	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	33
bitternut hickory	Carya cordiformis	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	34
pignut hickory	Carya glabra	WDL	Medium	0	0	0	New Habitat	Unknown	Medium	Absent	New Habitat	Unknown	Likely +		3	35
pecan	Carya illinoinensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	36
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	37
mockernut hickory	Carya alba	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate ++	3	38
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	39
eastern redbud	Cercis canadensis	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	40
common persimmon	Diospyros virginiana	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	41
sweetgum	Liquidambar styraciflua	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	42
Osage-orange	Maclura pomifera	NDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	43
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	44
shingle oak	Quercus imbricaria	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +		3	45
blackjack oak	Quercus marilandica	NSL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	46
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	47
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	48
post oak	Quercus stellata	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	49
winged elm	Ulmus alata	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	50