

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
white oak	Quercus alba	WDH	Medium	40.3	471.2	11.9	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	1	1
black oak	Quercus velutina	WDH	High	24.9	224.7	7.7	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	2
black willow	Salix nigra	NSH	Low	21.9	205.9	14.1	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +	2	3
post oak	Quercus stellata	WDH	High	22	183.9	7.0	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	2	4
shortleaf pine	Pinus echinata	WDH	High	10.9	140.7	7.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	2	5
eastern redcedar	Juniperus virginiana	WDH	Medium	15.4	127.1	6.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	2	6
sweetgum	Liquidambar styraciflua	WDH	High	22.3	120.0	8.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	7
boxelder	Acer negundo	WSH	Low	21.3	106.5	11.2	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	2	8
black hickory	Carya texana	NDL	High	25.7	102.6	4.5	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	9
mockernut hickory	Carya alba	WDL	Medium	31.2	101.5	3.3	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	10
American elm	Ulmus americana	WDH	Medium	38.9	97.2	5.4	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	11
pignut hickory	Carya glabra	WDL	Medium	23.3	96.4	4.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	12
green ash	Fraxinus pennsylvanica	WSH	Low	40.9	91.4	5.6	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	13
winged elm	Ulmus alata	WDL	Medium	33.7	90.5	3.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	14
blackgum	Nyssa sylvatica	WDL	Medium	27.9	89.8	3.1	No change	Sm. inc.	High	Common	Good	Very Good	Infill ++	Infill ++	1	15
scarlet oak	Quercus coccinea	WDL	Medium	10.4	83.6	4.7	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	16
northern red oak	Quercus rubra	WDH	Medium	18.9	77.4	4.3	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	17
red maple	Acer rubrum	WDH	High	30.3	69.0	3.6	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	18
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	12.2	64.1	10.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	2	19
sugarberry	Celtis laevigata	NDH	Medium	28	63.9	11.9	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	2	20
sugar maple	Acer saccharum	WDH	High	15	61.4	3.0	Sm. inc.	No change	High	Common	Very Good	Good	Infill ++	Infill ++	2	21
shagbark hickory	Carya ovata	WSL	Medium	17.7	55.0	3.5	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	22
overcup oak	Quercus lyrata	NSL	Medium	15.5	45.6	7.6	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor	Infill +	Infill +	2	23
sassafras	Sassafras albidum	WSL	Low	25.4	44.9	2.3	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	1	24
silver maple	Acer saccharinum	NSH	Low	10.6	42.1	3.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	25
slippery elm	Ulmus rubra	WSL	Low	30	42.0	2.3	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	26
black cherry	Prunus serotina	WDL	Medium	20.3	37.5	2.9	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor	Infill +	Infill +	1	27
eastern cottonwood	Populus deltoides	NSH	Low	7.4	36.3	5.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	28
sycamore	Platanus occidentalis	NSL	Low	16.4	34.8	4.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	29
loblolly pine	Pinus taeda	WDH	High	0.8	34.4	20.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	30
willow oak	Quercus phellos	NSL	Low	14.6	34.4	5.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	31
black locust	Robinia pseudoacacia	NDH	Low	0.7	29.7	2.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	32
white ash	Fraxinus americana	WDL	Medium	16	29.6	1.8	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	33
common persimmon	Diospyros virginiana	NSL	Low	24.6	28.4	2.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	34
American beech	Fagus grandifolia	WDH	High	6.7	27.0	5.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	35
water tupelo	Nyssa aquatica	NSH	Medium	7.8	26.5	9.2	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	36
flowering dogwood	Cornus florida	WDL	Medium	18	23.7	1.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	37
chinkapin oak	Quercus muehlenbergii	NSL	Medium	11.6	23.7	1.8	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	38
southern red oak	Quercus falcata	WDL	Medium	12	22.4	4.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	39
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	12.5	19.1	2.4	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	40
yellow-poplar	Liriodendron tulipifera	WDH	High	5.1	18.9	2.1	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	41
hackberry	Celtis occidentalis	WDH	Medium	14.5	17.9	4.0	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	42
bald cypress	Taxodium distichum	NSH	Medium	5.9	17.8	8.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	43
black walnut	Juglans nigra	WDH	Low	9.7	17.8	1.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	44
water oak	Quercus nigra	WDH	High	11.3	17.1	5.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	45
honeylocust	Gleditsia triacanthos	NSH	Low	16.6	15.1	3.7	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	46
shingle oak	Quercus imbricaria	NDH	Medium	3.7	14.7	2.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	47

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eastern redbud	Cercis canadensis	NSL	Low	12.7	14.4	1.1	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	48
water elm	Planera aquatica	NSL	Low	7.8	13.9	6.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	49
blackjack oak	Quercus marilandica	NSL	Medium	4.2	12.5	1.6	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	50
water hickory	Carya aquatica	NSL	Medium	10.5	12.3	6.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	51
Nuttall oak	Quercus texana	NSH	Medium	6.9	12.0	3.9	No change	No change	High	Rare	Fair	Fair			0	52
florida maple	Acer barbatum	NSL	Low	7.2	9.9	6.8	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	53
pin oak	Quercus palustris	NSH	Low	0.8	8.8	10.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	54
Osage-orange	Maclura pomifera	NDH	Medium	0.7	8.7	7.4	No change	Sm. inc.	High	Rare	Fair	Good	Infill +		2	55
Shumard oak	Quercus shumardii	NSL	Low	6.1	8.6	1.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	56
red mulberry	Morus rubra	NSL	Low	12.1	8.5	0.7	Sm. dec.	Sm. inc.	Medium	Rare	Very Poor	Fair		Infill +	2	57
bitternut hickory	Carya cordiformis	WSL	Low	8.6	8.4	1.5	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	58
pecan	Carya illinoensis	NSH	Low	9.3	7.2	3.3	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	59
river birch	Betula nigra	NSL	Low	5.7	6.6	4.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	60
pawpaw	Asimina triloba	NSL	Low	5.5	5.8	0.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	61
American hornbeam; musclev	Carpinus caroliniana	WSL	Low	5.4	4.1	0.7	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	2	62
waterlocust	Gleditsia aquatica	NSLX	FIA	4.1	3.8	2.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	63
swamp chestnut oak	Quercus michauxii	NSL	Low	6.7	3.3	1.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	64
swamp tupelo	Nyssa biflora	NDH	Medium	0.4	2.9	6.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	65
cucumbertree	Magnolia acuminata	NSL	Low	1.8	2.2	0.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	66
serviceberry	Amelanchier spp.	NSL	Low	2.4	1.9	0.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	67
white mulberry	Morus alba	NSL	FIA	0.1	1.5	0.3	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	68
butternut	Juglans cinerea	NSLX	FIA	0.7	0.8	0.7	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	69
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	3.8	0.7	1.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	70
American basswood	Tilia americana	WSL	Medium	0.1	0.7	0.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	71
shellbark hickory	Carya laciniosa	NSL	Low	1.3	0.6	4.4	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	72
pumpkin ash	Fraxinus profunda	NSH	FIA	1	0.5	2.9	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	73
ailanthus	Ailanthus altissima	NSL	FIA	1.5	0.2	0.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	74
wild plum	Prunus americana	NSLX	FIA	0.4	0.1	0.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	75
northern catalpa	Catalpa speciosa	NSHX	FIA	1.7	0.1	1.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	76
Ohio buckeye	Aesculus glabra	NSL	Low	1.7	0.1	0.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	77
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	78
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	79
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	80
Virginia pine	Pinus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	81
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	82
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	83
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	84
blue ash	Fraxinus quadrangulata	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	85
American holly	Ilex opaca	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	86
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	87
sweetbay	Magnolia virginiana	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	88
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	89
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	90
redbay	Persea borbonia	NSL	Low	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			3	91
bigtooth aspen	Populus grandidentata	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	92
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	93
laurel oak	Quercus laurifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	94

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chestnut oak	Quercus prinus	NDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	95
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	96
bluejack oak	Quercus incana	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	97
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	98