

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	33.6	120.4	10.5	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	1	1
American elm	Ulmus americana	WDH	Medium	57.6	120.4	7.6	No change	Sm. inc.	Medium	Common	Fair	Good	Infill +	Infill ++	1	2
silver maple	Acer saccharinum	NSH	Low	21.8	95.9	16.8	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	3
hackberry	Celtis occidentalis	WDH	Medium	43.5	86.8	8.2	Sm. inc.	No change	High	Common	Very Good	Good	Infill ++	Infill ++	1	4
sugar maple	Acer saccharum	WDH	High	22	80.6	8.5	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	5
black oak	Quercus velutina	WDH	High	31.4	80.6	7.9	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	6
black cherry	Prunus serotina	WDL	Medium	49.4	76.4	7.7	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor	Infill +	Infill +	0	7
shagbark hickory	Carya ovata	WSL	Medium	36.7	65.7	6.3	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	8
black walnut	Juglans nigra	WDH	Low	40	64.7	7.9	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	9
green ash	Fraxinus pennsylvanica	WSH	Low	35.8	64.3	7.6	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	10
boxelder	Acer negundo	WSH	Low	24.4	59.4	8.6	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	11
shingle oak	Quercus imbricaria	NDH	Medium	23.2	57.8	9.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	12
pignut hickory	Carya glabra	WDL	Medium	16.7	54.7	7.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	2	13
honeylocust	Gleditsia triacanthos	NSH	Low	24.2	53.6	9.9	No change	Sm. inc.	High	Common	Good	Very Good	Infill ++	Infill ++	1	14
white ash	Fraxinus americana	WDL	Medium	25	49.9	5.7	Sm. inc.	Sm. inc.	Low	Rare	Poor	Poor	Infill +	Infill +	1	15
northern red oak	Quercus rubra	WDH	Medium	22.9	47.7	6.0	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	1	16
sassafras	Sassafras albidum	WSL	Low	21.1	42.9	4.7	No change	Sm. dec.	Medium	Rare	Poor	Very Poor	Infill +		1	17
black willow	Salix nigra	NSH	Low	9.1	42.2	12.2	No change	No change	Low	Rare	Very Poor	Very Poor			2	18
eastern cottonwood	Populus deltoides	NSH	Low	13.4	37.5	11.8	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	19
yellow-poplar	Liriodendron tulipifera	WDH	High	4	36.6	9.0	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	20
bitternut hickory	Carya cordiformis	WSL	Low	22.6	34.4	5.3	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	21
eastern redcedar	Juniperus virginiana	WDH	Medium	11	32.8	6.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	22
Osage-orange	Maclura pomifera	NDH	Medium	14.9	31.0	13.6	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	23
slippery elm	Ulmus rubra	WSL	Low	30.9	30.5	3.5	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	24
sycamore	Platanus occidentalis	NSL	Low	12.3	29.8	7.2	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	2	25
post oak	Quercus stellata	WDH	High	9.8	27.0	7.8	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	26
red maple	Acer rubrum	WDH	High	10.9	26.4	7.1	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	27
black locust	Robinia pseudoacacia	NDH	Low	6.7	23.9	12.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	28
American basswood	Tilia americana	WSL	Medium	10.7	23.5	9.1	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			2	29
sweetgum	Liquidambar styraciflua	WDH	High	6.2	23.4	7.0	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	30
bur oak	Quercus macrocarpa	NDH	Medium	14.1	22.7	10.8	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	31
mockernut hickory	Carya alba	WDL	Medium	15.8	21.1	3.5	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	32
pin oak	Quercus palustris	NSH	Low	12.7	19.0	7.5	No change	No change	Low	Rare	Very Poor	Very Poor			2	33
red mulberry	Morus rubra	NSL	Low	16.9	18.3	4.1	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	34
eastern hophornbeam; ironw	Ostrya virginiana	WDL	Low	13.1	17.3	3.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	35
winged elm	Ulmus alata	WSL	Medium	5.5	15.7	4.2	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	36
shortleaf pine	Pinus echinata	WDH	High	1.6	15.6	14.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	37
eastern redbud	Cercis canadensis	NSL	Low	9	9.5	2.9	No change	No change	Medium	Rare	Poor	Poor			0	38
eastern white pine	Pinus strobus	WDH	High	3.9	9.3	19.9	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			2	39
common persimmon	Diospyros virginiana	NSL	Low	10.8	8.8	3.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	40
blackgum	Nyssa sylvatica	WDL	Medium	4.5	6.5	2.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	41
river birch	Betula nigra	NSL	Low	5.8	6.4	5.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	42
white mulberry	Morus alba	NSL	FIA	10.2	6.4	4.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	43
flowering dogwood	Cornus florida	WDL	Medium	6.9	6.3	1.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	44
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	4	5.5	3.3	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	45
swamp white oak	Quercus bicolor	NSL	Low	6.1	5.3	4.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	46
chinkapin oak	Quercus muehlenbergii	NSL	Medium	8	5.3	1.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	47

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
pecan	Carya illinoensis	NSH	Low	3.8	5.1	2.4	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	48
American beech	Fagus grandifolia	WDH	High	1.7	4.2	2.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	49
sugarberry	Celtis laevigata	NDH	Medium	2.2	4.1	3.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	50
Ohio buckeye	Aesculus glabra	NSL	Low	3.1	3.5	4.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	51
black hickory	Carya texana	NDL	High	2.2	3.2	2.1	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	52
southern red oak	Quercus falcata	WDL	Medium	1	3.2	3.0	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	53
loblolly pine	Pinus taeda	WDH	High	0.5	3.2	10.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	54
black maple	Acer nigrum	NSH	Low	3.7	3.1	7.1	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	55
northern catalpa	Catalpa speciosa	NSHX	FIA	1.8	2.6	13.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	56
quaking aspen	Populus tremuloides	WDH	High	0.6	2.4	3.8	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	57
shellbark hickory	Carya laciniosa	NSL	Low	3.9	2.4	5.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	58
red pine	Pinus resinosa	NSH	Medium	1.6	2.2	8.3	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	59
Siberian elm	Ulmus pumila	NDH	FIA	1.9	2.2	18.5	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	60
Scots pine	Pinus sylvestris	NSH	FIA	0.9	2.1	11.1	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	61
bald cypress	Taxodium distichum	NSH	Medium	0.5	1.9	7.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	62
scarlet oak	Quercus coccinea	WDL	Medium	0.9	1.7	1.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	63
northern pin oak	Quercus ellipsoidalis	NSH	Medium	0.7	1.7	9.5	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	64
pawpaw	Asimina triloba	NSL	Low	3.4	1.7	1.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	65
blackjack oak	Quercus marilandica	NSL	Medium	1.5	1.5	2.4	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	66
Norway spruce	Picea abies	NSH	FIA	0.1	1.4	9.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	67
pumpkin ash	Fraxinus profunda	NSH	FIA	0.1	1.3	9.1	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	68
jack pine	Pinus banksiana	NSH	Medium	0.6	1.2	20.7	Sm. dec.	Lg. dec.	High	Rare	Poor	Poor			0	69
Shumard oak	Quercus shumardii	NSL	Low	0.5	0.9	2.7	Sm. inc.	Lg. inc.	High	Rare	Good	Good			2	70
black ash	Fraxinus nigra	WSH	Medium	1	0.8	8.8	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	71
water tupelo	Nyssa aquatica	NSH	Medium	0.2	0.8	7.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	72
wild plum	Prunus americana	NSLX	FIA	0.2	0.8	3.7	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	73
American hornbeam; muscley	Carpinus caroliniana	WSL	Low	1.3	0.7	0.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	74
chestnut oak	Quercus prinus	NDH	High	0.1	0.6	8.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	75
ailanthus	Ailanthus altissima	NSL	FIA	0.6	0.5	2.0	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	76
serviceberry	Amelanchier spp.	NSL	Low	1.2	0.5	0.8	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	77
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	1.1	0.4	6.2	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			2	78
bigtooth aspen	Populus grandidentata	NSL	Medium	0.8	0.4	3.8	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	79
cucumbertree	Magnolia acuminata	NSL	Low	0.3	0.4	0.9	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	80
overcup oak	Quercus lyrata	NSL	Medium	0.1	0.2	0.9	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	81
blue ash	Fraxinus quadrangulata	NSL	Low	0.5	0.2	4.3	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	82
butternut	Juglans cinerea	NSLX	FIA	0.6	0.1	0.9	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	83
swamp chestnut oak	Quercus michauxii	NSL	Low	0.1	0.1	0.8	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			2	84
white spruce	Picea glauca	NSL	Medium	0.2	0.1	3.2	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	85
balsam poplar	Populus balsamifera	NSH	Medium	0.2	0.1	2.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	86
chokecherry	Prunus virginiana	NSLX	FIA	0.7	0.1	0.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	87
Nuttall oak	Quercus texana	NSH	Medium	0.1	0.0	0.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	88
Norway maple	Acer platanoides	NSL	FIA	0.2	0.0	0.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	89
willow oak	Quercus phellos	NSL	Low	0.1	0.0	0.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	90
peachleaf willow	Salix amygdaloides	NSLX	FIA	0.2	0.0	0.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	91
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	NA	Absent	New Habitat	New Habitat			0	92
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	93
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	94

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
Virginia pine	<i>Pinus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	95
florida maple	<i>Acer barbatum</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	96
striped maple	<i>Acer pensylvanicum</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	97
mountain maple	<i>Acer spicatum</i>	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	98
yellow birch	<i>Betula alleghaniensis</i>	NDL	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	99
cittamwood/gum bumelia	<i>Sideroxylon lanuginosum</i> ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate ++	3	100
water hickory	<i>Carya aquatica</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	101
sweetbay	<i>Magnolia virginiana</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	102
bigleaf magnolia	<i>Magnolia macrophylla</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	103
sourwood	<i>Oxydendrum arboreum</i>	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	104
redbay	<i>Persea borbonia</i>	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	105
water elm	<i>Planera aquatica</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	106
pin cherry	<i>Prunus pensylvanica</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	107
water oak	<i>Quercus nigra</i>	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	108
live oak	<i>Quercus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	109
bluejack oak	<i>Quercus incana</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	110
cedar elm	<i>Ulmus crassifolia</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	111