

Current and Potential Future Habitat, Capability, and Migration

Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FAIav	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
loblolly pine	Pinus taeda	WDH	High	89.5	3331.8	30.7	No change	No change	Medium	Abundant	Good	Good			1	1
sweetgum	Liquidambar styraciflua	WDH	High	82.5	917.1	8.7	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	2
yellow-poplar	Liriodendron tulipifera	WDH	High	69.4	600.4	6.5	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	3
chestnut oak	Quercus prinus	NDH	High	44.4	478.4	8.9	No change	No change	High	Common	Good	Good			1	4
water oak	Quercus nigra	WDH	High	61	443.7	5.9	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	5
red maple	Acer rubrum	WDH	High	74.5	403.9	4.1	No change	Sm. inc.	High	Common	Good	Very Good			1	6
white oak	Quercus alba	WDH	Medium	69.7	403.4	4.7	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	7
Virginia pine	Pinus virginiana	NDH	High	42.1	366.4	7.3	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	8
southern red oak	Quercus falcata	WDL	Medium	64.4	359.7	4.3	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	9
shortleaf pine	Pinus echinata	WDH	High	68.1	349.3	4.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	10
pignut hickory	Carya glabra	WDL	Medium	67.9	282.0	3.3	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	11
mockernut hickory	Carya alba	WDL	Medium	63.8	250.9	3.2	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	12
sourwood	Oxydendrum arboreum	NDL	High	59.1	243.3	3.3	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	13
post oak	Quercus stellata	WDH	High	59	241.1	3.4	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	14
blackgum	Nyssa sylvatica	WDL	Medium	71.5	200.1	2.2	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	15
black cherry	Prunus serotina	WDL	Medium	67.7	183.8	2.3	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair			1	16
scarlet oak	Quercus coccinea	WDL	Medium	40.7	176.2	3.6	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	17
flowering dogwood	Cornus florida	WDL	Medium	65.9	166.9	2.1	No change	No change	Medium	Common	Fair	Fair			1	18
black oak	Quercus velutina	WDH	High	42	122.0	2.4	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	19
longleaf pine	Pinus palustris	NSH	Medium	18.9	120.8	5.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	20
winged elm	Ulmus alata	WDL	Medium	34.6	91.1	2.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	21
green ash	Fraxinus pennsylvanica	WSH	Low	23.9	90.2	3.1	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	22
northern red oak	Quercus rubra	WDH	Medium	36	88.4	2.0	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	23
blackjack oak	Quercus marilandica	NSL	Medium	23.6	64.9	2.4	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	24
eastern white pine	Pinus strobus	WDH	High	5	53.8	6.6	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	2	25
American hornbeam; musclev	Carpinus caroliniana	WSL	Low	17.1	45.5	1.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	26
common persimmon	Diospyros virginiana	NSL	Low	32.4	44.3	1.1	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	27
eastern redcedar	Juniperus virginiana	WDH	Medium	19.2	39.4	1.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	28
American beech	Fagus grandifolia	WDH	High	22.1	36.5	1.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	29
red mulberry	Morus rubra	NSL	Low	7.6	36.3	1.7	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			1	30
sugarberry	Celtis laevigata	NDH	Medium	5.7	36.3	4.9	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	31
laurel oak	Quercus laurifolia	NDH	Medium	9	35.9	2.7	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	32
American elm	Ulmus americana	WDH	Medium	11.4	31.2	2.3	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	33
sweetbay	Magnolia virginiana	NSL	Medium	6.5	31.0	3.3	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	34
sycamore	Platanus occidentalis	NSL	Low	7.6	30.4	3.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	35
boxelder	Acer negundo	WSH	Low	5.8	29.7	3.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	36
shagbark hickory	Carya ovata	WSL	Medium	11.2	26.3	1.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
sassafras	Sassafras albidum	WSL	Low	21.6	25.7	0.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	38
willow oak	Quercus phellos	NSL	Low	8	23.9	2.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	39
swamp tupelo	Nyssa biflora	NDH	Medium	2	21.8	8.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	40
florida maple	Acer barbatum	NSL	Low	12.5	21.1	1.4	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	41
black walnut	Juglans nigra	WDH	Low	3.2	19.4	4.5	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	42
river birch	Betula nigra	NSL	Low	4.2	17.0	3.8	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	43
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	6.5	16.0	1.8	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	44
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	9.8	15.6	1.3	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	45
eastern hemlock	Tsuga canadensis	NSH	High	3	13.4	2.9	No change	No change	Low	Rare	Very Poor	Very Poor			2	46
honeylocust	Gleditsia triacanthos	NSH	Low	2.5	13.1	3.7	No change	No change	High	Rare	Fair	Fair		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
white ash	Fraxinus americana	WDL	Medium	6.6	12.4	1.5	No change	No change	Low	Rare	Very Poor	Very Poor			0	48
eastern redbud	Cercis canadensis	NSL	Low	9.4	12.3	0.9	No change	No change	Medium	Rare	Poor	Poor			1	49
slippery elm	Ulmus rubra	WSL	Low	4.4	12.0	1.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	50
black willow	Salix nigra	NSH	Low	4.8	10.6	2.0	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	1	51
American basswood	Tilia americana	WSL	Medium	4.6	10.4	1.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	52
eastern cottonwood	Populus deltoides	NSH	Low	0.7	9.9	11.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	53
water hickory	Carya aquatica	NSL	Medium	1.7	8.8	4.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	54
black locust	Robinia pseudoacacia	NDH	Low	4.9	8.1	1.2	No change	No change	Medium	Rare	Poor	Poor	Infill +		2	55
sweet birch	Betula lenta	NDH	High	3.6	7.8	1.5	No change	No change	Low	Rare	Very Poor	Very Poor			2	56
water tupelo	Nyssa aquatica	NSH	Medium	0.6	7.7	9.5	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	57
hackberry	Celtis occidentalis	WDH	Medium	3	6.6	2.0	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	58
swamp chestnut oak	Quercus michauxii	NSL	Low	2.6	6.0	2.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	59
bald cypress	Taxodium distichum	NSH	Medium	0.4	5.9	11.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	60
Osage-orange	Maclura pomifera	NDH	Medium	0.6	5.2	1.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	61
chinkapin oak	Quercus muehlenbergii	NSL	Medium	1.4	5.2	2.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	62
pecan	Carya illinoensis	NSH	Low	2	3.8	1.8	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair	Infill +	Infill +	2	63
slash pine	Pinus elliotii	NDH	High	1.3	3.5	2.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	64
American holly	Ilex opaca	NSL	Medium	3.9	3.3	0.6	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	2	65
bigleaf magnolia	Magnolia macrophylla	NSL	Low	1.8	3.1	1.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	66
sugar maple	Acer saccharum	WDH	High	0.6	3.0	2.9	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	67
overcup oak	Quercus lyrata	NSL	Medium	0.8	2.8	2.2	No change	No change	Low	Rare	Very Poor	Very Poor			2	68
bitternut hickory	Carya cordiformis	WSL	Low	2.2	2.7	1.0	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	69
cucumbertree	Magnolia acuminata	NSL	Low	1.8	2.6	1.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	70
white mulberry	Morus alba	NSL	FIA	0.5	1.9	1.3	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	71
serviceberry	Amelanchier spp.	NSL	Low	2.5	1.9	0.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	72
black hickory	Carya texana	NDL	High	0.3	1.9	7.3	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	73
wild plum	Prunus americana	NSLX	FIA	1.5	1.8	0.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	74
ailanthus	Ailanthus altissima	NSL	FIA	0.4	1.7	1.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	75
southern magnolia	Magnolia grandiflora	NSL	Low	1.3	1.6	1.3	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	76
Shumard oak	Quercus shumardii	NSL	Low	1.1	1.4	0.9	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	77
pitch pine	Pinus rigida	NSH	High	0.1	1.2	0.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	78
paulownia	Paulownia tomentosa	NSL	FIA	1.1	1.1	0.6	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	79
spruce pine	Pinus glabra	NSL	Low	0.6	0.7	0.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	80
silver maple	Acer saccharinum	NSH	Low	0.7	0.7	0.8	Very Lg. dec.	Very Lg. dec.	High	Rare	Lost	Lost			0	81
yellow birch	Betula alleghaniensis	NDL	High	0.5	0.6	1.2	No change	Sm. dec.	Medium	Rare	Poor	Very Poor			0	82
yellow buckeye	Aesculus flava	NSL	Low	0.8	0.6	0.8	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	83
turkey oak	Quercus laevis	NSH	Medium	0.1	0.6	0.1	No change	No change	High	Rare	Fair	Fair			0	84
pawpaw	Asimina triloba	NSL	Low	0.5	0.4	0.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	85
pin cherry	Prunus pensylvanica	NSL	Low	0.3	0.4	1.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	86
sand hickory	Carya pallida	NSL	FIA	0.4	0.4	0.6	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	87
butternut	Juglans cinerea	NSLX	FIA	0.9	0.4	0.3	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	88
shellbark hickory	Carya laciniosa	NSL	Low	0.5	0.4	0.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	89
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0.5	0.3	0.5	No change	No change	Low	Rare	Very Poor	Very Poor			0	90
loblolly-bay	Gordonia lasianthus	NSH	Medium	0.3	0.2	0.6	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	91
black maple	Acer nigrum	NSH	Low	0.3	0.1	0.5	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	92
Nuttall oak	Quercus texana	NSH	Medium	0.1	0.1	0.1	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	93
American chestnut	Castanea dentata	NSLX	FIA	0.1	0.1	0.0	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	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
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	95
red spruce	Picea rubens	NDH	High	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	96
Table Mountain pine	Pinus pungens	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	97
pond cypress	Taxodium ascendens	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	98
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	99
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	100
Ohio buckeye	Aesculus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	101
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate ++	3	102
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	103
silverbell	Halesia spp.	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	104
redbay	Persea borbonia	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	105
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	106
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	107
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	108