

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
loblolly pine	Pinus taeda	WDH	High	92.4	4579.9	35.9	No change	No change	Medium	Abundant	Good	Good			1	1
sweetgum	Liquidambar styraciflua	WDH	High	93.1	1190.4	9.1	No change	No change	Medium	Abundant	Good	Good			1	2
water oak	Quercus nigra	WDH	High	83.3	722.2	6.0	Lg. inc.	Lg. inc.	Medium	Abundant	Very Good	Very Good			1	3
yellow-poplar	Liriodendron tulipifera	WDH	High	53.9	246.6	3.1	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	4
red maple	Acer rubrum	WDH	High	65.6	244.2	2.6	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	5
southern red oak	Quercus falcata	WDL	Medium	51	236.1	3.0	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	6
white oak	Quercus alba	WDH	Medium	47	220.3	3.3	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	7
shortleaf pine	Pinus echinata	WDH	High	43.1	208.6	3.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	8
longleaf pine	Pinus palustris	NSH	Medium	20	197.6	5.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	9
green ash	Fraxinus pennsylvanica	WSH	Low	38.6	189.0	4.1	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	10
eastern redcedar	Juniperus virginiana	WDH	Medium	33.9	174.4	4.6	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	11
post oak	Quercus stellata	WDH	High	36.8	170.9	2.9	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	12
sugarberry	Celtis laevigata	NDH	Medium	29.7	170.9	5.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	13
laurel oak	Quercus laurifolia	NDH	Medium	33.9	165.7	3.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	14
pignut hickory	Carya glabra	WDL	Medium	40.4	160.7	2.7	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	15
blackgum	Nyssa sylvatica	WDL	Medium	54.4	156.2	1.9	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	16
winged elm	Ulmus alata	WDL	Medium	54.2	152.1	2.1	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	17
mockernut hickory	Carya alba	WDL	Medium	39.8	151.0	2.4	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	18
sweetbay	Magnolia virginiana	NSL	Medium	24.3	123.3	3.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	19
flowering dogwood	Cornus florida	WDL	Medium	49.2	120.2	1.8	No change	No change	Medium	Common	Fair	Fair			1	20
American hornbeam; musclev	Carpinus caroliniana	WSL	Low	34.2	91.7	1.9	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	21
black cherry	Prunus serotina	WDL	Medium	42.3	89.5	1.5	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	22
sourwood	Oxydendrum arboreum	NDL	High	34.5	87.6	1.6	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	23
chestnut oak	Quercus prinus	NDH	High	9.5	87.5	5.0	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	24
Virginia pine	Pinus virginiana	NDH	High	10.5	76.3	3.4	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	25
slash pine	Pinus elliotii	NDH	High	6	76.1	8.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	2	26
swamp tupelo	Nyssa biflora	NDH	Medium	11.3	75.0	4.9	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	27
willow oak	Quercus phellos	NSL	Low	18.1	74.0	3.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	28
American beech	Fagus grandifolia	WDH	High	24.5	69.0	2.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	29
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	23.7	68.7	2.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	30
American elm	Ulmus americana	WDH	Medium	29.6	67.7	1.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	31
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	22.9	62.0	1.7	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	32
spruce pine	Pinus glabra	NSL	Low	16.9	59.9	2.8	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	33
Osage-orange	Maclura pomifera	NDH	Medium	7.5	55.4	9.0	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	34
boxelder	Acer negundo	WSH	Low	11.5	54.8	3.7	Sm. dec.	Sm. dec.	High	Common	Fair	Fair			1	35
common persimmon	Diospyros virginiana	NSL	Low	40.6	53.4	1.0	No change	Sm. inc.	High	Common	Good	Very Good			1	36
river birch	Betula nigra	NSL	Low	6.2	46.0	5.3	No change	No change	Medium	Rare	Poor	Poor			1	37
sycamore	Platanus occidentalis	NSL	Low	12	45.6	2.9	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	1	38
American holly	Ilex opaca	NSL	Medium	21.2	45.0	1.5	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	39
black oak	Quercus velutina	WDH	High	14	43.4	2.1	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	40
shagbark hickory	Carya ovata	WSL	Medium	12.9	38.0	2.3	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	41
water tupelo	Nyssa aquatica	NSH	Medium	4.2	37.4	5.1	No change	No change	Low	Rare	Very Poor	Very Poor			2	42
northern red oak	Quercus rubra	WDH	Medium	10.9	36.1	2.1	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	1	43
bald cypress	Taxodium distichum	NSH	Medium	6	34.5	4.5	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	44
southern magnolia	Magnolia grandiflora	NSL	Low	9.3	33.5	2.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	45
pecan	Carya illinoensis	NSH	Low	8.9	32.7	2.8	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	1	46
florida maple	Acer barbatum	NSL	Low	15.7	32.5	1.3	Sm. dec.	No change	High	Rare	Poor	Fair			1	47

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water hickory	Carya aquatica	NSL	Medium	4.2	31.7	3.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	48
blackjack oak	Quercus marilandica	NSL	Medium	11.1	29.2	1.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	49
honeylocust	Gleditsia triacanthos	NSH	Low	5.6	28.7	3.5	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	50
overcup oak	Quercus lyrata	NSL	Medium	7	26.0	2.9	No change	No change	Low	Rare	Very Poor	Very Poor			0	51
eastern cottonwood	Populus deltoides	NSH	Low	3.3	25.8	4.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	52
black willow	Salix nigra	NSH	Low	9.6	24.8	1.6	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	1	53
scarlet oak	Quercus coccinea	WDL	Medium	5.8	23.4	3.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	54
slippery elm	Ulmus rubra	WSL	Low	12.6	20.7	1.2	No change	Sm. inc.	Medium	Rare	Poor	Fair			1	55
sassafras	Sassafras albidum	WSL	Low	17.8	19.6	0.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			1	56
red mulberry	Morus rubra	NSL	Low	14.1	18.7	1.1	Sm. dec.	Sm. inc.	Medium	Rare	Very Poor	Fair			1	57
swamp chestnut oak	Quercus michauxii	NSL	Low	10.3	16.9	1.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	58
bigleaf magnolia	Magnolia macrophylla	NSL	Low	7.5	15.2	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	59
eastern redbud	Cercis canadensis	NSL	Low	12	14.4	1.0	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	60
black walnut	Juglans nigra	WDH	Low	6.4	14.0	2.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	61
turkey oak	Quercus laevis	NSH	Medium	4.8	13.7	2.8	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	62
durand oak	Quercus sinuata var. sinuata	NSL	FIA	6.4	13.4	2.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	63
Nuttall oak	Quercus texana	NSH	Medium	1.1	13.2	5.9	No change	No change	High	Rare	Fair	Fair			0	64
white ash	Fraxinus americana	WDL	Medium	7.3	13.2	1.4	No change	No change	Low	Rare	Very Poor	Very Poor			0	65
Shumard oak	Quercus shumardii	NSL	Low	3.5	8.1	1.8	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	66
hackberry	Celtis occidentalis	WDH	Medium	2.9	6.5	1.0	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	67
chinkapin oak	Quercus muehlenbergii	NSL	Medium	2.4	5.2	2.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	68
American basswood	Tilia americana	WSL	Medium	3.4	5.2	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	69
cucumbertree	Magnolia acuminata	NSL	Low	2.9	4.8	1.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	70
wild plum	Prunus americana	NSLX	FIA	6.9	4.6	0.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	71
bitternut hickory	Carya cordiformis	WSL	Low	3.4	3.4	1.0	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	72
black locust	Robinia pseudoacacia	NDH	Low	1	2.8	2.8	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	73
redbay	Persea borbonia	NSL	Low	3.1	2.1	0.6	Sm. inc.	Sm. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	74
serviceberry	Amelanchier spp.	NSL	Low	2	1.3	0.7	Sm. dec.	No change	Medium	Rare	Very Poor	Poor			0	75
white mulberry	Morus alba	NSL	FIA	0.2	1.2	0.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	76
silver maple	Acer saccharinum	NSH	Low	0.6	0.6	0.3	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	77
Atlantic white-cedar	Chamaecyparis thyoides	NSH	Low	0.5	0.4	0.9	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +		2	78
live oak	Quercus virginiana	NDH	High	0.5	0.3	0.6	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	79
bluejack oak	Quercus incana	NSL	Low	0.5	0.2	0.5	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	80
pin cherry	Prunus pensylvanica	NSL	Low	0.4	0.2	0.3	No change	No change	Medium	Rare	Poor	Poor			0	81
bur oak	Quercus macrocarpa	NDH	Medium	0.5	0.2	0.3	Sm. dec.	Lg. dec.	High	Rare	Poor	Poor			0	82
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	83
Table Mountain pine	Pinus pungens	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	84
pond cypress	Taxodium ascendens	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	85
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	86
sugar maple	Acer saccharum	WDH	High	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	87
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	88
pawpaw	Asimina triloba	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	89
sweet birch	Betula lenta	NDH	High	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	90
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	91
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	92
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	93
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	94

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loblolly-bay	Gordonia lasianthus	NSH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	95
silverbell	Halesia spp.	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	96
water elm	Planera aquatica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	97
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	98