



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
chestnut oak	Quercus prinus	NDH	High	65.1	1314.7	21.4	Sm. dec.	Sm. dec.	High	Abundant	Good	Good			1	1
yellow-poplar	Liriodendron tulipifera	WDH	High	66.3	990.7	16.1	Sm. dec.	Lg. dec.	High	Abundant	Good	Good			1	2
red maple	Acer rubrum	WDH	High	83.1	621.4	7.9	No change	No change	High	Abundant	Very Good	Very Good			1	3
white oak	Quercus alba	WDH	Medium	67.5	523.5	8.4	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good			1	4
northern red oak	Quercus rubra	WDH	Medium	67.5	470.9	7.4	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	5
Virginia pine	Pinus virginiana	NDH	High	47	469.1	11.0	No change	Sm. dec.	Medium	Common	Fair	Poor			1	6
black oak	Quercus velutina	WDH	High	56.6	354.5	6.9	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	7
blackgum	Nyssa sylvatica	WDL	Medium	69.9	337.7	5.2	No change	No change	High	Common	Good	Good			1	8
black cherry	Prunus serotina	WDL	Medium	53	334.9	6.9	No change	No change	Low	Common	Poor	Poor			0	9
black locust	Robinia pseudoacacia	NDH	Low	67.5	316.6	5.0	Sm. dec.	No change	Medium	Common	Poor	Fair			1	10
eastern redcedar	Juniperus virginiana	WDH	Medium	30.1	287.1	9.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	11
pignut hickory	Carya glabra	WDL	Medium	71.1	285.6	4.3	No change	Sm. dec.	Medium	Common	Fair	Poor			1	12
white ash	Fraxinus americana	WDL	Medium	56.6	278.6	4.9	No change	No change	Low	Common	Poor	Poor			0	13
scarlet oak	Quercus coccinea	WDL	Medium	37.3	251.4	6.7	No change	Sm. dec.	Medium	Common	Fair	Poor			1	14
eastern white pine	Pinus strobus	WDH	High	27.7	230.8	9.9	Sm. dec.	Sm. dec.	Low	Common	Poor	Poor			0	15
ailanthus	Ailanthus altissima	NSL	FIA	47	221.9	5.2	Unknown	Unknown	NA	Common	NNIS	NNIS			0	16
mockernut hickory	Carya alba	WDL	Medium	43.4	194.7	4.5	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	17
sweet birch	Betula lenta	NDH	High	36.1	193.4	5.4	Lg. dec.	Lg. dec.	Low	Common	Very Poor	Very Poor			0	18
sassafras	Sassafras albidum	WSL	Low	37.3	141.6	3.8	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor			0	19
sycamore	Platanus occidentalis	NSL	Low	10.8	119.8	11.0	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	20
black walnut	Juglans nigra	WDH	Low	28.9	115.9	4.0	No change	Sm. inc.	Medium	Common	Fair	Good			1	21
American basswood	Tilia americana	WSL	Medium	22.9	80.2	4.3	Sm. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	22
green ash	Fraxinus pennsylvanica	WSH	Low	6	78.4	13.0	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	23
eastern hemlock	Tsuga canadensis	NSH	High	7.2	62.8	8.7	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	24
flowering dogwood	Cornus florida	WDL	Medium	36.1	61.8	1.9	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	25
eastern redbud	Cercis canadensis	NSL	Low	30.1	57.9	2.2	No change	Sm. inc.	Medium	Common	Fair	Good			1	26
pitch pine	Pinus rigida	NSH	High	14.5	55.2	3.8	No change	No change	Medium	Common	Fair	Fair			1	27
boxelder	Acer negundo	WSH	Low	8.4	53.3	6.3	Sm. dec.	No change	High	Common	Fair	Good			1	28
American elm	Ulmus americana	WDH	Medium	20.5	49.9	2.4	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +	Infill ++	1	29
southern red oak	Quercus falcata	WDL	Medium	4.8	44.7	9.3	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	30
loblolly pine	Pinus taeda	WDH	High	3.6	43.1	11.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	31
paulownia	Paulownia tomentosa	NSL	FIA	10.8	37.0	3.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	32
striped maple	Acer pensylvanicum	NSL	Medium	18.1	36.9	2.0	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	33
hackberry	Celtis occidentalis	WDH	Medium	16.9	36.7	2.2	No change	Lg. inc.	High	Rare	Fair	Good			1	34
American beech	Fagus grandifolia	WDH	High	7.2	33.8	4.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	35
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	14.5	30.9	2.1	Sm. inc.	Lg. inc.	High	Rare	Good	Good			1	36
bitternut hickory	Carya cordiformis	WSL	Low	15.7	29.4	2.8	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	37
common persimmon	Diospyros virginiana	NSL	Low	9.6	26.8	2.8	No change	Sm. inc.	High	Rare	Fair	Good			1	38
serviceberry	Amelanchier spp.	NSL	Low	22.9	20.4	1.1	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	39
chinkapin oak	Quercus muehlenbergii	NSL	Medium	6	20.1	9.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	40
shagbark hickory	Carya ovata	WSL	Medium	13.3	18.3	1.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	41
sugar maple	Acer saccharum	WDH	High	9.6	17.7	1.8	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	42
post oak	Quercus stellata	WDH	High	6	17.5	2.9	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	43
cucumbertree	Magnolia acuminata	NSL	Low	3.6	16.9	4.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	44
red spruce	Picea rubens	NDH	High	1.2	15.4	12.8	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	45
pin cherry	Prunus pensylvanica	NSL	Low	8.4	14.9	3.3	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	46
bear oak; scrub oak	Quercus ilicifolia	NSLX	FIA	2.4	14.2	5.9	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	47

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shortleaf pine	Pinus echinata	WDH	High	6	11.8	2.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	48
bigtooth aspen	Populus grandidentata	NSL	Medium	2.4	11.3	4.7	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	49
slippery elm	Ulmus rubra	WSL	Low	6	9.1	1.5	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	50
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	6	8.7	1.5	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	51
pin oak	Quercus palustris	NSH	Low	2.4	8.2	3.4	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			2	52
yellow birch	Betula alleghaniensis	NDL	High	6	7.5	1.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	53
honeylocust	Gleditsia triacanthos	NSH	Low	2.4	5.7	2.4	Sm. dec.	Lg. inc.	High	Rare	Poor	Good			2	54
white mulberry	Morus alba	NSL	FIA	1.2	5.3	4.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	55
black willow	Salix nigra	NSH	Low	2.4	5.2	2.2	Sm. dec.	Lg. inc.	Low	Rare	Very Poor	Fair		Infill +	2	56
river birch	Betula nigra	NSL	Low	2.4	5.1	2.1	No change	Lg. inc.	Medium	Rare	Poor	Good		Infill ++	2	57
red mulberry	Morus rubra	NSL	Low	1.2	4.7	3.9	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	58
swamp chestnut oak	Quercus michauxii	NSL	Low	1.2	4.6	3.8	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	59
American chestnut	Castanea dentata	NSLX	FIA	4.8	3.9	0.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	60
pawpaw	Asimina triloba	NSL	Low	2.4	3.2	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	61
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	1.2	3.1	2.6	No change	Lg. inc.	Medium	Rare	Poor	Good	Infill +		2	62
butternut	Juglans cinerea	NSLX	FIA	1.2	1.7	1.4	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	63
blackjack oak	Quercus marilandica	NSL	Medium	1.2	1.5	1.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	64
gray birch	Betula populifolia	NSL	Low	1.2	0.7	0.5	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	65
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	66
Table Mountain pine	Pinus pungens	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	67
northern white-cedar	Thuja occidentalis	WSH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	68
florida maple	Acer barbatum	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	69
black maple	Acer nigrum	NSH	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	70
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	71
yellow buckeye	Aesculus flava	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate +		3	72
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	73
shellbark hickory	Carya laciniosa	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	74
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	75
sugarberry	Celtis laevigata	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	76
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	New Habitat	Low	Absent	Unknown	New Habitat			3	77
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	78
American holly	Ilex opaca	NSL	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat		Likely +	3	79
sweetgum	Liquidambar styraciflua	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	80
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	81
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	82
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	83
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	84
laurel oak	Quercus laurifolia	NDH	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat		Migrate +	3	85
water oak	Quercus nigra	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	86
willow oak	Quercus phellos	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	87
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	88
bluejack oak	Quercus incana	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	89
winged elm	Ulmus alata	WDL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	90