

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	49.4	1105.3	21.6	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good	Infill ++	Infill ++	1	1
chestnut oak	Quercus prinus	NDH	High	64.2	936.5	14.1	Sm. dec.	Sm. dec.	High	Abundant	Good	Good	Infill ++	Infill ++	1	2
Virginia pine	Pinus virginiana	NDH	High	82.7	886.7	10.3	Lg. dec.	Lg. dec.	Medium	Abundant	Fair	Fair	Infill +	Infill +	0	3
red maple	Acer rubrum	WDH	High	80.2	724.5	8.7	Sm. dec.	Sm. dec.	High	Abundant	Good	Good	Infill ++	Infill ++	1	4
white oak	Quercus alba	WDH	Medium	71.6	635.0	8.5	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good	Infill ++	Infill ++	1	5
sweetgum	Liquidambar styraciflua	WDH	High	58	526.8	8.7	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good	Infill ++	Infill ++	1	6
yellow-poplar	Liriodendron tulipifera	WDH	High	69.1	526.0	7.3	Sm. dec.	Sm. dec.	High	Abundant	Good	Good	Infill ++	Infill ++	1	7
pignut hickory	Carya glabra	WDL	Medium	61.7	330.1	5.2	Sm. dec.	Lg. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	8
sourwood	Oxydendrum arboreum	NDL	High	63	313.4	4.8	Lg. dec.	Lg. dec.	High	Common	Fair	Fair	Infill +	Infill +	1	9
mockernut hickory	Carya alba	WDL	Medium	66.7	292.1	4.2	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	10
shortleaf pine	Pinus echinata	WDH	High	50.6	291.3	5.5	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	11
black cherry	Prunus serotina	WDL	Medium	56.8	245.1	4.2	No change	Sm. inc.	Low	Common	Poor	Fair	Infill +	Infill +	1	12
southern red oak	Quercus falcata	WDL	Medium	43.2	242.3	5.4	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	13
eastern redcedar	Juniperus virginiana	WDH	Medium	33.3	221.9	6.4	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	14
blackgum	Nyssa sylvatica	WDL	Medium	71.6	221.6	3.0	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	15
black oak	Quercus velutina	WDH	High	53.1	215.6	3.9	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	16
scarlet oak	Quercus coccinea	WDL	Medium	46.9	188.2	3.9	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	17
post oak	Quercus stellata	WDH	High	40.7	168.0	4.0	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	18
red mulberry	Morus rubra	NSL	Low	6.2	135.5	21.1	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor		Infill +	0	19
northern red oak	Quercus rubra	WDH	Medium	45.7	128.6	2.7	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	20
sugarberry	Celtis laevigata	NDH	Medium	6.2	114.9	17.9	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	2	21
winged elm	Ulmus alata	WDL	Medium	37	113.9	3.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	22
green ash	Fraxinus pennsylvanica	WSH	Low	21	101.8	4.7	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	1	23
shagbark hickory	Carya ovata	WSL	Medium	30.9	98.9	3.1	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	24
flowering dogwood	Cornus florida	WDL	Medium	44.4	91.3	2.0	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	25
sassafras	Sassafras albidum	WSL	Low	39.5	85.4	2.1	Sm. dec.	Sm. inc.	Medium	Common	Poor	Good	Infill +	Infill ++	1	26
boxelder	Acer negundo	WSH	Low	6.2	79.5	12.4	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	27
sugar maple	Acer saccharum	WDH	High	18.5	67.2	3.5	Lg. dec.	Very Lg. dec.	High	Common	Fair	Lost			1	28
hackberry	Celtis occidentalis	WDH	Medium	9.9	66.0	6.4	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	2	29
black walnut	Juglans nigra	WDH	Low	13.6	60.4	4.3	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor	Infill +		0	30
eastern white pine	Pinus strobus	WDH	High	4.9	51.5	10.0	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	0	31
American beech	Fagus grandifolia	WDH	High	17.3	50.7	2.8	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	1	32
black locust	Robinia pseudoacacia	NDH	Low	12.3	48.4	3.8	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	33
common persimmon	Diospyros virginiana	NSL	Low	8.6	48.1	5.4	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	34
American elm	Ulmus americana	WDH	Medium	18.5	42.7	2.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	35
blackjack oak	Quercus marilandica	NSL	Medium	9.9	42.5	4.1	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	36
eastern redbud	Cercis canadensis	NSL	Low	22.2	41.0	1.8	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
eastern hemlock	Tsuga canadensis	NSH	High	9.9	39.7	3.9	No change	No change	Low	Rare	Very Poor	Very Poor			0	38
silver maple	Acer saccharinum	NSH	Low	1.2	37.4	29.2	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	39
slippery elm	Ulmus rubra	WSL	Low	12.3	35.6	2.8	Sm. dec.	Sm. inc.	Medium	Rare	Very Poor	Fair		Infill +	1	40
white ash	Fraxinus americana	WDL	Medium	21	31.7	1.5	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	1	41
sycamore	Platanus occidentalis	NSL	Low	6.2	31.5	4.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	42
chinkapin oak	Quercus muehlenbergii	NSL	Medium	7.4	28.5	3.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	43
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	12.3	24.8	1.9	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	44
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	6.2	23.9	3.7	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	45
willow oak	Quercus phellos	NSL	Low	6.2	21.1	3.3	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	2	46
water oak	Quercus nigra	WDH	High	7.4	20.5	2.7	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	47

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water tupelo	Nyssa aquatica	NSH	Medium	1.2	17.9	13.9	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	48
florida maple	Acer barbatum	NSL	Low	11.1	17.0	1.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	49
sand hickory	Carya pallida	NSL	FIA	3.7	13.3	3.5	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	50
American basswood	Tilia americana	WSL	Medium	2.5	9.9	3.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	51
paulownia	Paulownia tomentosa	NSL	FIA	1.2	8.2	6.4	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	52
bitternut hickory	Carya cordiformis	WSL	Low	6.2	6.7	1.0	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	53
sweet birch	Betula lenta	NDH	High	3.7	5.9	1.5	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	54
swamp chestnut oak	Quercus michauxii	NSL	Low	2.5	5.0	2.0	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	55
shellbark hickory	Carya laciniosa	NSL	Low	2.5	3.6	1.4	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	56
river birch	Betula nigra	NSL	Low	1.2	3.4	2.7	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good		Infill ++	2	57
black willow	Salix nigra	NSH	Low	2.5	3.4	1.3	No change	Lg. inc.	Low	Rare	Very Poor	Fair		Infill +	2	58
ailanthus	Ailanthus altissima	NSL	FIA	3.7	3.3	0.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	59
yellow buckeye	Aesculus flava	NSL	Low	2.5	2.8	1.1	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	60
serviceberry	Amelanchier spp.	NSL	Low	2.5	2.2	0.9	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	61
honeylocust	Gleditsia triacanthos	NSH	Low	3.7	1.9	0.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good		Infill ++	2	62
American holly	Ilex opaca	NSL	Medium	2.5	1.8	0.7	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	63
pin cherry	Prunus pensylvanica	NSL	Low	1.2	1.5	1.2	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	64
cherrybark oak; swamp red o.	Quercus pagoda	NSL	Medium	1.2	1.2	1.0	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good	Infill +		2	65
pawpaw	Asimina triloba	NSL	Low	1.2	0.5	0.4	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	66
blue ash	Fraxinus quadrangulata	NSL	Low	1.2	0.4	0.3	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	67
cucumbertree	Magnolia acuminata	NSL	Low	1.2	0.3	0.3	Lg. dec.	No change	Medium	Rare	Very Poor	Poor			0	68
bigleaf magnolia	Magnolia macrophylla	NSL	Low	1.2	0.3	0.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	69
laurel oak	Quercus laurifolia	NDH	Medium	1.2	0.2	0.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	70
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	71
slash pine	Pinus elliottii	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	72
longleaf pine	Pinus palustris	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	73
northern white-cedar	Thuja occidentalis	WSH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	74
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	75
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	76
Ohio buckeye	Aesculus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	77
yellow birch	Betula alleghaniensis	NDL	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	78
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate ++	3	79
pecan	Carya illinoensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	80
black hickory	Carya texana	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	81
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	82
silverbell	Halesia spp.	NSL	Low	0	0	0	New Habitat	Unknown	Medium	Absent	New Habitat	Unknown			3	83
Osage-orange	Maclura pomifera	NDH	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat		Migrate +	3	84
southern magnolia	Magnolia grandiflora	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	85
sweetbay	Magnolia virginiana	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	86
mountain or Fraser magnolia	Magnolia fraseri	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	87
swamp tupelo	Nyssa biflora	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	88
bigtooth aspen	Populus grandidentata	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	89
pin oak	Quercus palustris	NSH	Low	0	0	0	Unknown	Unknown	Low	Modeled	Unknown	Unknown			0	90
Shumard oak	Quercus shumardii	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	91
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	92
bluejack oak	Quercus incana	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat		Migrate +	3	93
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	94