

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	96.4	3597.56	37.66	No change	No change	Medium	Abundant	Good	Good			1	1
sweetgum	Liquidambar styraciflua	WDH	High	95.7	960.92	10.4	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	2
white oak	Quercus alba	WDH	Medium	87	779.39	9.28	Sm. dec.	Lg. dec.	High	Abundant	Good	Good			1	3
yellow-poplar	Liriodendron tulipifera	WDH	High	82	620.77	7.31	Lg. dec.	Lg. dec.	High	Abundant	Good	Good			1	4
red maple	Acer rubrum	WDH	High	83.1	574.28	6.62	Sm. inc.	Sm. inc.	High	Abundant	Very Good	Very Good			1	5
American holly	Ilex opaca	NSL	Medium	77.3	275.41	3.65	Sm. dec.	No change	Medium	Common	Poor	Fair			1	6
southern red oak	Quercus falcata	WDL	Medium	67.7	237.18	3.41	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	7
mockernut hickory	Carya alba	WDL	Medium	57.5	193.7	3.32	No change	Sm. inc.	High	Common	Good	Very Good			1	8
blackgum	Nyssa sylvatica	WDL	Medium	76.9	161.06	2.21	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	9
scarlet oak	Quercus coccinea	WDL	Medium	55.3	156.78	3.16	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	10
American beech	Fagus grandifolia	WDH	High	37.4	153.99	3.9	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	11
swamp tupelo	Nyssa biflora	NDH	Medium	25.8	141.77	4.83	Sm. inc.	Sm. inc.	Low	Common	Fair	Fair	Infill +	Infill +	1	12
willow oak	Quercus phellos	NSL	Low	43.1	135.06	3.08	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	13
black oak	Quercus velutina	WDH	High	56.3	131.65	2.46	No change	No change	Medium	Common	Fair	Fair			1	14
green ash	Fraxinus pennsylvanica	WSH	Low	28.7	107.12	3.65	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	15
pignut hickory	Carya glabra	WDL	Medium	49.5	101.94	2.05	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	16
winged elm	Ulmus alata	WDL	Medium	35.8	91.35	2.49	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	17
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	40.7	86.27	2.09	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	18
chestnut oak	Quercus prinus	NDH	High	18.1	76.65	5.94	Lg. dec.	Lg. dec.	High	Common	Fair	Fair			0	19
eastern redcedar	Juniperus virginiana	WDH	Medium	42.3	76.38	1.79	Sm. inc.	Sm. inc.	Medium	Common	Good	Good	Infill ++	Infill ++	1	20
water oak	Quercus nigra	WDH	High	32.6	69.99	2.12	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	2	21
water tupelo	Nyssa aquatica	NSH	Medium	2.4	68.37	28.25	No change	No change	Low	Common	Poor	Poor	Infill +	Infill +	2	22
northern red oak	Quercus rubra	WDH	Medium	29.5	67.42	2.52	Lg. dec.	Lg. dec.	High	Common	Fair	Fair	Infill +		1	23
slippery elm	Ulmus rubra	WSL	Low	18.8	57.7	2.89	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	24
river birch	Betula nigra	NSL	Low	22.7	57.25	2.46	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	25
Virginia pine	Pinus virginiana	NDH	High	27.5	54.99	1.94	Lg. dec.	Lg. dec.	Medium	Common	Poor	Poor			0	26
sourwood	Oxydendrum arboreum	NDL	High	27.8	49.4	1.77	Sm. dec.	Lg. dec.	High	Rare	Poor	Poor			1	27
black cherry	Prunus serotina	WDL	Medium	24.8	41.73	1.6	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair			1	28
white ash	Fraxinus americana	WDL	Medium	12.1	41.36	3.42	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	29
flowering dogwood	Cornus florida	WDL	Medium	36.1	35.46	0.97	Sm. inc.	Lg. inc.	Medium	Rare	Fair	Good			1	30
swamp chestnut oak	Quercus michauxii	NSL	Low	10.7	34.78	3.16	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	1	31
bald cypress	Taxodium distichum	NSH	Medium	1	29.81	21.22	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	32
shortleaf pine	Pinus echinata	WDH	High	14.5	29.31	3.24	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	33
sycamore	Platanus occidentalis	NSL	Low	10.4	28.1	2.51	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	34
post oak	Quercus stellata	WDH	High	25.4	27.57	1.08	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	35
American elm	Ulmus americana	WDH	Medium	16.6	24.82	1.45	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	36
black locust	Robinia pseudoacacia	NDH	Low	6.8	20.33	2.26	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	37
hackberry	Celtis occidentalis	WDH	Medium	7.3	16.09	2.22	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			0	38
pawpaw	Asimina triloba	NSL	Low	3.3	15.53	3.45	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	39
sassafras	Sassafras albidum	WSL	Low	20.1	15.34	0.9	Very Lg. dec.	Lg. dec.	Medium	Rare	Lost	Very Poor			0	40
black walnut	Juglans nigra	WDH	Low	5.7	14.4	1.89	Lg. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	41
pin oak	Quercus palustris	NSH	Low	4.8	13.77	2.84	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	42
bitternut hickory	Carya cordiformis	WSL	Low	7.2	13.02	1.78	Very Lg. dec.	Very Lg. dec.	High	Rare	Lost	Lost			0	43
shagbark hickory	Carya ovata	WSL	Medium	4.8	10.52	2.17	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			2	44
eastern cottonwood	Populus deltoides	NSH	Low	1.2	8.65	6.86	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	45
sweetbay	Magnolia virginiana	NSL	Medium	7.3	8.6	1.19	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	46
florida maple	Acer barbatum	NSL	Low	7.3	7.96	1.1	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor		Infill +	1	47
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	4.8	7.09	1.47	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	48
pumpkin ash	Fraxinus profunda	NSH	FIA	1	6.38	4.54	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	49
boxelder	Acer negundo	WSH	Low	3.6	6.05	1.67	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	50
black willow	Salix nigra	NSH	Low	2.4	5.63	2.33	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair		Infill +	2	51
ailanthus	Ailanthus altissima	NSL	FIA	2.4	5	2.06	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	52
white mulberry	Morus alba	NSL	FIA	2.4	4.36	1.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	53

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eastern redbud	<i>Cercis canadensis</i>	NSL	Low	7.3	3.91	0.54	Very Lg. dec.	Very Lg. dec.	Medium	Rare	Lost	Lost			0	54
sugar maple	<i>Acer saccharum</i>	WDH	High	3.6	3.79	1.04	Very Lg. dec.	Very Lg. dec.	High	Rare	Lost	Lost			0	55
Osage-orange	<i>Maclura pomifera</i>	NDH	Medium	1.2	3.47	2.87	Sm. dec.	No change	High	Rare	Poor	Fair			0	56
common persimmon	<i>Diospyros virginiana</i>	NSL	Low	7.2	2.94	0.4	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor		Infill +	1	57
pond pine	<i>Pinus serotina</i>	NSH	Medium	2.4	2.57	1.06	Very Lg. dec.	Very Lg. dec.	Low	Rare	Lost	Lost			0	58
yellow birch	<i>Betula alleghaniensis</i>	NDL	High	1.2	2.52	2.08	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	59
overcup oak	<i>Quercus lyrata</i>	NSL	Medium	3.6	2.49	0.69	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	60
Carolina ash	<i>Fraxinus caroliniana</i>	NSL	FIA	0.9	2.06	1.2	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	61
eastern hophornbeam; ironw	<i>Ostrya virginiana</i>	WSL	Low	1.2	1.45	1.2	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	62
sweet birch	<i>Betula lenta</i>	NDH	High	2.4	0.96	0.39	Lg. dec.	Lg. dec.	Low	Rare	Very Poor	Very Poor			0	63
blackjack oak	<i>Quercus marilandica</i>	NSL	Medium	1.2	0.79	0.65	Very Lg. dec.	Lg. inc.	High	Rare	Lost	Good			2	64
redbay	<i>Persea borbonia</i>	NSL	Low	1.2	0.76	0.63	Lg. inc.	Lg. inc.	High	Rare	Good	Good			0	65
bigtooth aspen	<i>Populus grandidentata</i>	NSL	Medium	1.2	0.76	0.61	Sm. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	66
pin cherry	<i>Prunus pensylvanica</i>	NSL	Low	1.2	0.54	0.45	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	67
honeylucust	<i>Gleditsia triacanthos</i>	NSH	Low	1.2	0.42	0.35	No change	Lg. inc.	High	Rare	Fair	Good			0	68
laurel oak	<i>Quercus laurifolia</i>	NDH	Medium	1.2	0.34	0.28	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	69
slash pine	<i>Pinus elliotii</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate ++	3	70
longleaf pine	<i>Pinus palustris</i>	NSH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	71
serviceberry	<i>Amelanchier spp.</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	72
cittamwood/gum bumelia	<i>Sideroxylon lanuginosum ssp</i>	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	73
water hickory	<i>Carya aquatica</i>	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	74
pecan	<i>Carya illinoensis</i>	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	75
black hickory	<i>Carya texana</i>	NDL	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	76
sugarberry	<i>Celtis laevigata</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	77
black ash	<i>Fraxinus nigra</i>	WSH	Medium	0	0	0	Unknown	New Habitat	Low	Absent	Unknown	New Habitat			3	78
loblolly-bay	<i>Gordonia lasianthus</i>	NSH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	79
cucumbertree	<i>Magnolia acuminata</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	80
bigleaf magnolia	<i>Magnolia macrophylla</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	81
mountain or Fraser magnolia	<i>Magnolia fraseri</i>	NSL	Low	0	0	0	Unknown	Unknown	NA	Absent	Unknown	Unknown			0	82
red mulberry	<i>Morus rubra</i>	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	83
water elm	<i>Planera aquatica</i>	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	84
shingle oak	<i>Quercus imbricaria</i>	NDH	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	85
Shumard oak	<i>Quercus shumardii</i>	NSL	Low	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	86
live oak	<i>Quercus virginiana</i>	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	87
cedar elm	<i>Ulmus crassifolia</i>	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			0	88