Osceola

National Forests and Grasslands
Climate Change Atlas Tree Species
Current and Potential Future Habitat, Capability, and Migration

Landscape Change Research Group
Iverson, Peters, Prasad, Matthews
USFS Northern Research Station
Delaware, OH

Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
slash pine	Pinus elliottii	NDH	High	89.3	4748.51	53.18	No change	Sm. dec.	Medium	Abundant	Good	Fair			1	1
pond cypress	Taxodium ascendens	NSH	Medium	63.1	785.02	12.44	Sm. inc.	Sm. inc.	Medium	Abundant	Very Good	Very Good			1	2
swamp tupelo	Nyssa biflora	NDH	Medium	67.9	688.9	10.15	Sm. inc.	Sm. inc.	Low	Abundant	Good	Good			1	3
loblolly pine	Pinus taeda	WDH	High	38.1	539.19	14.15	Lg. inc.	Lg. inc.	Medium	Abundant	Very Good	Very Good			1	4
laurel oak	Quercus laurifolia	NDH	Medium	35.7	465.77	13.04	No change	No change	Medium	Common	Fair	Fair			1	5
water oak	Quercus nigra	WDH	High	40.5	398.83	9.85	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	6
longleaf pine	Pinus palustris	NSH	Medium	26.2	363.39	13.88	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	7
loblolly-bay	Gordonia lasianthus	NSH	Medium	50	343.62	6.87	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	8
red maple	Acer rubrum	WDH	High	52.4	299.85	5.72	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	9
live oak	Quercus virginiana	NDH	High	27.4	192.25	7.02	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	10
sweetgum	Liquidambar styraciflua	WDH	High	28.6	191.07	6.69	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	11
sweetbay	Magnolia virginiana	NSL	Medium	51.2	143.49	2.8	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	12
redbay	Persea borbonia	NSL	Low	44	86.49	1.96	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	13
black cherry	Prunus serotina	WDL	Medium	14.3	55.25	3.87	Lg. inc.	Lg. inc.	Low	Common	Good	Good			1	14
common persimmon	Diospyros virginiana	NSL	Low	4.8	43.73	9.18	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			1	15
sand pine	Pinus clausa	NDH	High	2.4	38.12	16.01	No change	No change	Low	Rare	Very Poor	Very Poor			2	16
blackgum	Nyssa sylvatica	WDL	Medium	16.7	30.63	1.84	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	17
green ash	Fraxinus pennsylvanica	WSH	Low	4.8	30.36	6.38	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	18
pignut hickory	Carya glabra	WDL	Medium	4.8	23.68	4.97	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	19
pond pine	Pinus serotina	NSH	Medium	7.1	22.24	3.11	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	1	20
southern magnolia	Magnolia grandiflora	NSL	Low	7.1	18.05	2.53	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	21
ogeechee tupelo	Nyssa ogeche	NSLX	FIA	2.4	14.89	6.26	Unknown	Unknown	Low	Rare	FIA Only	FIA Only			0	22
bald cypress	Taxodium distichum	NSH	Medium	7.1	14.79	2.07	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	23
post oak	Quercus stellata	WDH	High	4.8	11.44	2.4	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	24
water tupelo	Nyssa aquatica	NSH	Medium	1.2	9.2	7.73	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	25
American hornbeam; muscle	Carpinus caroliniana	WSL	Low	4.8	8.36	1.75	No change	Sm. inc.	Medium	Rare	Poor	Fair			1	26
American elm	Ulmus americana	WDH	Medium	3.6	5.32	1.49	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	27
American basswood	Tilia americana	WSL	Medium	1.2	5.18	4.35	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	28
American holly	Ilex opaca	NSL	Medium	6	5.08	0.85	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	29
southern red oak	Quercus falcata	WDL	Medium	1.2	5.05	4.24	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	30
water elm	Planera aquatica	NSL	Low	1.2	4.64	3.9	No change	No change	Medium	Rare	Poor	Poor		Infill +	2	31
bluejack oak	Quercus incana	NSL	Low	1.2	4.37	3.67	No change	Sm. inc.	Medium	Rare	Poor	Fair		Infill +	2	32
swamp chestnut oak	Quercus michauxii	NSL	Low	2.4	3.73	1.56	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	33
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	3.6	2.83	0.79	Lg. dec.	Sm. dec.	High	Rare	Poor	Poor			0	34
flowering dogwood	Cornus florida	WDL	Medium	1.2	2.74	2.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	35
river birch	Betula nigra	NSL	Low	1.2	2.46	2.07	No change	Sm. inc.	Medium	Rare	Poor	Fair		Infill +	2	36
mockernut hickory	Carya alba	WDL	Medium	1.2	1.94	1.63	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	37
winged elm	Ulmus alata	WDL	Medium	2.4	1.73	0.72	No change	Lg. inc.	Medium	Rare	Poor	Good			2	38
florida maple	Acer barbatum	NSL	Low	1.2	1.62	1.36	Sm. dec.	Very Lg. dec.	High	Rare	Poor	Lost			0	39
sugarberry	Celtis laevigata	NDH	Medium	1.2	0.99	0.83	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	40
cucumbertree	Magnolia acuminata	NSL	Low	1.2	0.8	0.67	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	41
turkey oak	Quercus laevis	NSH	Medium	1.2	0.8	0.67	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	42
eastern redbud	Cercis canadensis	NSL	Low	1.2	0.6	0.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	43
Carolina ash	Fraxinus caroliniana	NSL	FIA	1.2	0.39	0.33	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	44
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	45
shortleaf pine	Pinus echinata	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	46
spruce pine	Pinus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	47
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	48
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	49
pawpaw	Asimina triloba	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	50
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp	NSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			0	51
pecan	Carya illinoinensis	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Likely +	Likely +	3	52
shagbark hickory	Carya ovata	WSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	53

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black hickory	Carya texana	NDL	High	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	54
hackberry	Celtis occidentalis	WDH	Medium	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	55
silverbell	Halesia spp.	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	56
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	57
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	58
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	59
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	60
overcup oak	Quercus lyrata	NSL	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat		Migrate +	3	61
willow oak	Quercus phellos	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	62
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	63
cabbage palmetto	Sabal palmetto	NDH	Medium	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	64
black willow	Salix nigra	NSH	Low	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Likely +	Likely +	3	65
American mountain-ash	Sorbus americana	NSL	Low	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	66
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	67