



# HUC 120200 Neches

## HUC 6 Watershed Climate Change Atlas Tree Species

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### 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	90.4	4329.6	38.8	No change	Sm. dec.	Medium	Abundant	Good	Fair			1	1
sweetgum	Liquidambar styraciflua	WDH	High	92.7	1165.3	10.1	No change	No change	Medium	Abundant	Good	Good			1	2
water oak	Quercus nigra	WDH	High	81.5	627.3	5.9	Lg. inc.	Lg. inc.	Medium	Abundant	Very Good	Very Good			1	3
shortleaf pine	Pinus echinata	WDH	High	59.2	558.0	7.7	No change	No change	Medium	Abundant	Good	Good			1	4
winged elm	Ulmus alata	WDL	Medium	68	391.0	4.5	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	5
post oak	Quercus stellata	WDH	High	54.9	364.0	5.5	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	6
southern red oak	Quercus falcata	WDL	Medium	66.7	294.1	3.5	Sm. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	7
blackgum	Nyssa sylvatica	WDL	Medium	58.3	213.1	2.9	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	8
slash pine	Pinus elliottii	NDH	High	12.5	149.2	8.1	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good	Infill ++	Infill ++	1	9
red maple	Acer rubrum	WDH	High	50.7	133.2	2.2	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	10
laurel oak	Quercus laurifolia	NDH	Medium	22.3	130.9	4.6	Sm. inc.	No change	Medium	Common	Good	Fair	Infill ++	Infill +	1	11
willow oak	Quercus phellos	NSL	Low	32	124.3	3.4	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	12
white oak	Quercus alba	WDH	Medium	40.3	121.4	2.4	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	13
eastern redcedar	Juniperus virginiana	WDH	Medium	26.4	119.4	3.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	14
American hornbeam; muscley	Carpinus caroliniana	WDH	Low	34.7	113.7	2.7	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	15
sugarberry	Celtis laevigata	NDL	Medium	26.9	111.2	2.7	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	16
cherrybark oak; swamp red o	Quercus pagoda	NSL	Medium	35.2	104.5	2.5	Sm. inc.	Sm. inc.	Medium	Common	Good	Good			1	17
American elm	Ulmus americana	WDH	Medium	29.9	98.2	2.6	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	18
American holly	Ilex opaca	NSL	Medium	40.6	88.8	1.8	No change	Sm. inc.	Medium	Common	Fair	Good			1	19
green ash	Fraxinus pennsylvanica	WSH	Low	21.1	86.2	3.2	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good			1	20
longleaf pine	Pinus palustris	NSH	Medium	10.6	83.8	7.0	Lg. inc.	Lg. inc.	Medium	Common	Very Good	Very Good	Infill ++	Infill ++	1	21
eastern hophornbeam; ironw	Ostrya virginiana	WDL	Low	32.8	62.1	1.6	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good			1	22
mockernut hickory	Carya alba	WDL	Medium	31.5	55.2	1.5	Lg. inc.	Lg. inc.	High	Common	Very Good	Very Good			1	23
black hickory	Carya texana	NDL	High	27.1	54.2	1.8	Sm. inc.	Lg. inc.	Medium	Common	Good	Very Good			1	24
overcup oak	Quercus lyrata	NSL	Medium	10.8	52.7	4.9	No change	Sm. inc.	Low	Common	Poor	Fair			1	25
white ash	Fraxinus americana	WDL	Medium	24.4	52.1	1.7	No change	No change	Low	Common	Poor	Poor			0	26
sweetbay	Magnolia virginiana	NSL	Medium	14.7	48.6	2.4	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	27
river birch	Betula nigra	NSL	Low	9.4	46.2	3.7	No change	No change	Medium	Rare	Poor	Poor			1	28
black willow	Salix nigra	NSH	Low	8.5	41.9	5.0	No change	No change	Low	Rare	Very Poor	Very Poor			0	29
sassafras	Sassafras albidum	WSL	Low	23.1	38.6	1.3	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	30
bald cypress	Taxodium distichum	NSH	Medium	5.6	37.6	5.1	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	31
blackjack oak	Quercus marilandica	NSL	Medium	16.1	34.4	1.8	Lg. inc.	Lg. inc.	High	Rare	Good	Good			1	32
southern magnolia	Magnolia grandiflora	NSL	Low	11.1	31.7	2.2	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	33
swamp chestnut oak	Quercus michauxii	NSL	Low	11.1	31.0	2.4	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	34
black cherry	Prunus serotina	WDL	Medium	23.9	29.9	1.0	Sm. inc.	Lg. inc.	Low	Rare	Poor	Fair			1	35
flowering dogwood	Cornus florida	WDL	Medium	24.5	29.5	0.9	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair			1	36
florida maple	Acer barbatum	NSL	Low	12.2	28.5	1.9	Lg. dec.	Lg. dec.	High	Rare	Poor	Poor			1	37
American beech	Fagus grandifolia	WDH	High	9.6	27.0	2.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	38
black walnut	Juglans nigra	WDH	Low	3.2	25.4	2.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	39
water elm	Planera aquatica	NSL	Low	4.5	22.6	4.9	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	40
redbay	Persea borbonia	NSL	Low	10.9	22.0	1.6	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	41
sycamore	Platanus occidentalis	NSL	Low	5.5	21.6	3.6	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	42
common persimmon	Diospyros virginiana	NSL	Low	11.3	20.2	1.4	Sm. dec.	No change	High	Rare	Poor	Fair			1	43
Osage-orange	Maclura pomifera	NDH	Medium	2	19.9	13.0	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor		Infill +	2	44
bluejack oak	Quercus incana	NSL	Low	8.4	19.6	2.2	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	45
cedar elm	Ulmus crassifolia	NDH	Medium	5.2	18.6	3.0	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	46
water hickory	Carya aquatica	NSL	Medium	7	15.8	1.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	47



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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
boxelder	Acer negundo	WSH	Low	3.4	13.4	2.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor	Infill +	Infill +	2	48
red mulberry	Morus rubra	NSL	Low	8.6	13.3	1.3	No change	No change	Medium	Rare	Poor	Poor			1	49
water tupelo	Nyssa aquatica	NSH	Medium	2.2	13.3	5.6	No change	No change	Low	Rare	Very Poor	Very Poor			2	50
eastern redbud	Cercis canadensis	NSL	Low	6	9.5	1.3	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	51
slippery elm	Ulmus rubra	WSL	Low	4	9.4	1.8	Sm. dec.	No change	Medium	Rare	Very Poor	Poor		Infill +	1	52
honeylocust	Gleditsia triacanthos	NSH	Low	5.9	9.4	1.7	Sm. dec.	No change	High	Rare	Poor	Fair	Infill +	Infill +	1	53
black oak	Quercus velutina	WDH	High	2.1	9.0	3.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	54
bitternut hickory	Carya cordiformis	WSL	Low	2.2	7.3	3.1	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	55
pecan	Carya illinoensis	NSH	Low	5.3	7.0	1.8	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	2	56
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	4.4	6.5	1.4	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	57
Shumard oak	Quercus shumardii	NSL	Low	1.4	6.0	2.9	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	58
swamp tupelo	Nyssa biflora	NDH	Medium	1.5	5.3	3.4	No change	No change	Low	Rare	Very Poor	Very Poor			2	59
eastern cottonwood	Populus deltoides	NSH	Low	0.4	3.5	9.1	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	60
wild plum	Prunus americana	NSLX	FIA	1.6	3.4	1.4	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	61
Nuttall oak	Quercus texana	NSH	Medium	0.2	3.3	1.3	Sm. dec.	No change	High	Rare	Poor	Fair			0	62
live oak	Carya virginiana	NDH	High	0.8	3.0	4.0	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good			2	63
shagbark hickory	Carya ovata	WSL	Medium	1.9	2.5	1.3	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	64
pignut hickory	Carya glabra	WDL	Medium	1	1.6	1.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	65
American basswood	Tilia americana	WSL	Medium	1.5	1.0	0.6	Lg. dec.	Very Lg. dec.	Medium	Rare	Very Poor	Lost			0	66
peachleaf willow	Salix amygdaloides	NSLX	FIA	0.4	0.8	2.1	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	67
shellbark hickory	Carya laciniosa	NSL	Low	0.4	0.3	0.7	No change	No change	Medium	Rare	Poor	Poor			0	68
Carolina ash	Fraxinus caroliniana	NSL	FIA	0.4	0.1	0.2	Unknown	Unknown	NA	Rare	FIA Only	FIA Only			0	69
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	70
Virginia pine	Pinus virginiana	NDH	High	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	71
striped maple	Acer pensylvanicum	NSL	Medium	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	72
serviceberry	Amelanchier spp.	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	73
pawpaw	Asimina triloba	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	74
hackberry	Celtis occidentalis	WDH	Medium	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat		Migrate +	3	75
black ash	Fraxinus nigra	WSH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat			3	76
silverbell	Halesia spp.	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	77
yellow-poplar	Liriodendron tulipifera	WDH	High	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate +	Migrate +	3	78
cucumbertree	Magnolia acuminata	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	79
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	New Habitat	Medium	Absent	Unknown	New Habitat			3	80
sourwood	Oxydendrum arboreum	NDL	High	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	81
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			3	82
scarlet oak	Quercus coccinea	WDL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	83
turkey oak	Quercus laevis	NSH	Medium	0	0	0	Unknown	New Habitat	High	Absent	Unknown	New Habitat			3	84
chinkapin oak	Quercus muehlenbergii	NSL	Medium	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	85
northern red oak	Quercus rubra	WDH	Medium	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	86
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	87