



# HUC 110701 Verdigris

## 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
post oak	Quercus stellata	WDH	High	44.6	250.5	31.6	Sm. dec.	Sm. dec.	High	Common	Fair	Fair	Infill +	Infill +	1	1
Osage-orange	Maclura pomifera	NDH	Medium	38.1	140.2	21.5	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	2
American elm	Ulmus americana	WDH	Medium	66.3	132.3	10.8	No change	No change	Medium	Common	Fair	Fair	Infill +	Infill +	1	3
hackberry	Celtis occidentalis	WDH	Medium	59	112.0	9.9	No change	No change	High	Common	Good	Good	Infill ++	Infill ++	1	4
black oak	Quercus velutina	WDH	High	24.1	59.6	10.6	Sm. dec.	Sm. dec.	Medium	Common	Poor	Poor	Infill +	Infill +	0	5
blackjack oak	Quercus marilandica	NSL	Medium	37.8	51.1	13.6	Sm. inc.	Sm. inc.	High	Common	Very Good	Very Good	Infill ++	Infill ++	1	6
green ash	Fraxinus pennsylvanica	WSH	Low	48	44.5	6.3	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	1	7
eastern redcedar	Juniperus virginiana	WDH	Medium	36.6	41.4	8.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	1	8
pecan	Carya illinoensis	NSH	Low	29.7	40.5	9.3	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	1	9
black walnut	Juglans nigra	WDH	Low	34.3	39.4	6.4	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	10
honeylocust	Gleditsia triacanthos	NSH	Low	22.8	34.4	7.7	No change	Sm. inc.	High	Rare	Fair	Good	Infill +	Infill ++	1	11
sugarberry	Celtis laevigata	NDH	Medium	21.8	24.2	10.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	12
red mulberry	Morus rubra	NSL	Low	30.3	21.2	3.0	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	1	13
eastern redbud	Cercis canadensis	NSL	Low	20.6	20.6	3.5	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	14
bitternut hickory	Carya cordiformis	WSL	Low	26.3	19.7	5.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	1	15
common persimmon	Diospyros virginiana	NSL	Low	22	17.4	4.0	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	1	16
northern red oak	Quercus rubra	WDH	Medium	10.1	12.1	7.7	No change	No change	High	Rare	Fair	Fair	Infill +	Infill +	2	17
sycamore	Platanus occidentalis	NSL	Low	20.8	12.1	3.8	Sm. inc.	Sm. inc.	Medium	Rare	Fair	Fair	Infill +	Infill +	2	18
black hickory	Carya texana	NDL	High	16.3	10.2	4.1	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	19
boxelder	Acer negundo	WSH	Low	15.1	7.8	4.0	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	20
bur oak	Quercus macrocarpa	NDH	Medium	17.5	7.6	4.4	Sm. inc.	No change	High	Rare	Good	Fair		Infill +	2	21
Shumard oak	Quercus shumardii	NSL	Low	18	7.5	4.3	Sm. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	22
winged elm	Ulmus alata	WDL	Medium	8.9	7.0	3.2	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	23
black willow	Salix nigra	NSH	Low	3.1	6.4	6.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	24
slippery elm	Ulmus rubra	WSL	Low	20.3	5.9	2.8	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	25
loblolly pine	Pinus taeda	WDH	High	0.9	5.8	24.1	No change	Sm. inc.	Medium	Rare	Poor	Fair	Infill +	Infill +	2	26
Kentucky coffeetree	Gymnocladus dioicus	NSLX	FIA	4.4	5.6	6.3	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			2	27
eastern cottonwood	Populus deltoides	NSH	Low	6.3	4.9	8.7	No change	No change	Medium	Rare	Poor	Poor	Infill +	Infill +	2	28
chinkapin oak	Quercus muehlenbergii	NSL	Medium	14.6	4.4	2.9	Lg. inc.	Lg. inc.	Medium	Rare	Good	Good	Infill ++	Infill ++	2	29
black cherry	Prunus serotina	WDL	Medium	11.7	4.4	2.3	No change	Sm. inc.	Low	Rare	Very Poor	Poor		Infill +	2	30
northern catalpa	Catalpa speciosa	NSHX	FIA	2.1	4.3	16.6	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	31
silver maple	Acer saccharinum	NSH	Low	6.5	3.1	4.7	Sm. dec.	Sm. dec.	High	Rare	Poor	Poor			0	32
white ash	Fraxinus americana	WDL	Medium	13.8	2.8	1.2	Lg. inc.	Lg. inc.	Low	Rare	Fair	Fair	Infill +	Infill +	2	33
Siberian elm	Ulmus pumila	NDH	FIA	1.9	2.4	19.9	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	34
pin oak	Quercus palustris	NSH	Low	6.5	2.2	4.3	No change	No change	Low	Rare	Very Poor	Very Poor			2	35
cittamwood/gum bumelia	Sideroxylon lanuginosum ssp.	NSL	Low	8.4	1.6	1.3	Lg. inc.	Lg. inc.	High	Rare	Good	Good	Infill ++	Infill ++	2	36
shagbark hickory	Carya ovata	WSL	Medium	2.7	1.4	1.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	37
sassafras	Sassafras albidum	WSL	Low	0.9	0.9	3.7	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	38
wild plum	Prunus americana	NSLX	FIA	7.7	0.8	0.8	Unknown	Unknown	Medium	Rare	FIA Only	FIA Only			0	39
pawpaw	Asimina triloba	NSL	Low	0.4	0.5	0.9	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	40
white oak	Quercus alba	WDH	Medium	0.5	0.4	0.9	Sm. dec.	Sm. inc.	High	Rare	Poor	Good			0	41
blue ash	Fraxinus quadrangulata	NSL	Low	1.9	0.3	2.4	Sm. dec.	Sm. dec.	Low	Rare	Very Poor	Very Poor			0	42
serviceberry	Amelanchier spp.	NSL	Low	2.9	0.2	0.6	Sm. dec.	Sm. dec.	Medium	Rare	Very Poor	Very Poor			0	43
white mulberry	Morus alba	NSL	FIA	1.9	0.1	0.8	Unknown	Unknown	NA	Rare	NNIS	NNIS			0	44
flowering dogwood	Cornus florida	WDL	Medium	0.5	0.1	0.2	Lg. dec.	Lg. dec.	Medium	Rare	Very Poor	Very Poor			0	45
sugar maple	Acer saccharum	WDH	High	1.9	0.1	0.5	Lg. inc.	Lg. inc.	High	Rare	Good	Good			2	46
ashe juniper	Juniperus ashei	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat			0	47



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Common Name	Scientific Name	Range	MR	%Cell	FIAsum	FIAiv	ChngCl45	ChngCl85	Adap	Abund	Capabil45	Capabil85	SHIFT45	SHIFT85	SSO	N
shortleaf pine	Pinus echinata	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	48
florida maple	Acer barbatum	NSL	Low	0	0	0	Unknown	Unknown	High	Modeled	Unknown	Unknown			0	49
mountain maple	Acer spicatum	NSL	Low	0	0	0	Unknown	Unknown	High	Absent	Unknown	Unknown			0	50
Ohio buckeye	Aesculus glabra	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	51
American hornbeam; musclev	Carpinus caroliniana	WSL	Low	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	52
mockernut hickory	Carya alba	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Likely +	Likely +	3	53
black ash	Fraxinus nigra	WSH	Medium	0	0	0	Unknown	Unknown	Low	Absent	Unknown	Unknown			0	54
sweetgum	Liquidambar styraciflua	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat		Migrate +	3	55
bigleaf magnolia	Magnolia macrophylla	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	56
eastern hophornbeam; ironw	Ostrya virginiana	WSL	Low	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat			3	57
pin cherry	Prunus pensylvanica	NSL	Low	0	0	0	Unknown	Unknown	Medium	Absent	Unknown	Unknown			0	58
southern red oak	Quercus falcata	WDL	Medium	0	0	0	New Habitat	New Habitat	High	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	59
water oak	Quercus nigra	WDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate +	Migrate ++	3	60
live oak	Quercus virginiana	NDH	High	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	61
black locust	Robinia pseudoacacia	NDH	Low	0	0	0	New Habitat	New Habitat	Medium	Absent	New Habitat	New Habitat	Likely +	Likely +	3	62
American basswood	Tilia americana	WSL	Medium	0	0	0	Unknown	Unknown	Medium	Modeled	Unknown	Unknown			0	63
cedar elm	Ulmus crassifolia	NDH	Medium	0	0	0	New Habitat	New Habitat	Low	Absent	New Habitat	New Habitat	Migrate ++	Migrate ++	3	64